

APPENDIX G: RAW ANALYTICAL LABORATORY DATA

Data Summary Package

**Prepared
for**

Windward Environmental

**04-08-06-20
LDW-SEEP SAMPLING**

ARI Job Nos. GX14

**Prepared
By**

Analytical Resources, Inc.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Page 1 of 2

Sample ID: LDW-SP-10-C-U

SAMPLE

Lab Sample ID: GX14A

LIMS ID: 04-12015

Matrix: Water

Data Release Authorized:

Reported: 08/11/04

QC Report No: GX14-Windward Environmental

Project: LDW-Seep Sampling

Date Sampled: 07/30/04

Date Received: 07/30/04

Instrument/Analyst: FINN5/PAB

Date Analyzed: 08/05/04 19:00

Sample Amount: 5.00 mL

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B
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Sample ID: LDW-SP-10-C-U
SAMPLE

Lab Sample ID: GX14A
LIMS ID: 04-12015
Matrix: Water
Date Analyzed: 08/05/04 19:00

QC Report No: GX14-Windward Environmental
Project: LDW-Seep Sampling

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	94.8%
d8-Toluene	96.2%
Bromofluorobenzene	95.0%
d4-1,2-Dichlorobenzene	98.3%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: LDW-SP-62-C-U

SAMPLE

Lab Sample ID: GX14B

LIMS ID: 04-12016

Matrix: Water

Data Release Authorized: 

Reported: 08/11/04

QC Report No: GX14-Windward Environmental

Project: LDW-Seep Sampling

Date Sampled: 07/30/04

Date Received: 07/30/04

Instrument/Analyst: FINN5/PAB

Date Analyzed: 08/05/04 19:28

Sample Amount: 5.00 mL

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B
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Sample ID: LDW-SP-62-C-U
SAMPLE

Lab Sample ID: GX14B
LIMS ID: 04-12016
Matrix: Water
Date Analyzed: 08/05/04 19:28

QC Report No: GX14-Windward Environmental
Project: LDW-Seep Sampling

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.5%
d8-Toluene	95.8%
Bromofluorobenzene	93.0%
d4-1,2-Dichlorobenzene	97.6%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: TRIP BLANK

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SAMPLE


Lab Sample ID: GX14C

QC Report No: GX14-Windward Environmental

LIMS ID: 04-12017

Project: LDW-Seep Sampling

Matrix: Water

Data Release Authorized: 

Date Sampled:

Reported: 08/11/04

Date Received: 07/30/04

Instrument/Analyst: FINN5/PAB

Sample Amount: 5.00 mL

Date Analyzed: 08/05/04 19:57

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: TRIP BLANK

SAMPLE

Lab Sample ID: GX14C

LIMS ID: 04-12017

Matrix: Water

Date Analyzed: 08/05/04 19:57

QC Report No: GX14-Windward Environmental

Project: LDW-Seep Sampling

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	92.6%
d8-Toluene	95.6%
Bromofluorobenzene	93.0%
d4-1,2-Dichlorobenzene	99.5%

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water 5 mL

QC Report No: GX14

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
080504MB	Method Blank	86.3%	94.0%	92.1%	97.4%	0
GX14LCS	Lab Cntrl Sample	86.7%	94.2%	93.5%	101%	0
GX14LCSD	Lab Cntrl Sample Dp	88.1%	96.1%	94.7%	101%	0
GX14A	LDW-SP-10-C-U	94.8%	96.2%	95.0%	98.3%	0
GX14B	LDW-SP-62-C-U	95.5%	95.8%	93.0%	97.6%	0
GX14C	TRIP BLANK	92.6%	95.6%	93.0%	99.5%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(74-133)	(74-142)
(TOL) = Toluene-d8	(77-131)	(84-129)
(BFB) = Bromofluorobenzene	(79-127)	(77-122)
(DCB) = 1,2-Dichlorobenzene-d4	(84-132)	(85-135)

Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-080504

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LCS/LCSD

Lab Sample ID: LCS-080504

QC Report No: GX14-Windward Environmental

LIMS ID: 04-12015

Project: LDW-Seep Sampling

Matrix: Water

Data Release Authorized:

Date Sampled: NA

Reported: 08/11/04

Date Received: NA

Instrument/Analyst LCS: FINN5/PAB

Sample Amount LCS: 5.00 mL

LCSD: FINN5/PAB

LCSD: 5.00 mL

Date Analyzed LCS: 08/05/04 11:49

Purge Volume LCS: 5.0 mL

LCSD: 08/05/04 12:31

LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	48.5	50.0	97.0%	47.0	50.0	94.0%	3.1%
Bromomethane	41.8	50.0	83.6%	41.9	50.0	83.8%	0.2%
Vinyl Chloride	40.9	50.0	81.8%	40.1	50.0	80.2%	2.0%
Chloroethane	44.9	50.0	89.8%	44.5	50.0	89.0%	0.9%
Methylene Chloride	49.7	50.0	99.4%	51.5	50.0	103%	3.6%
Acetone	188	250	75.2%	189	250	75.6%	0.5%
Carbon Disulfide	48.7	50.0	97.4%	49.8	50.0	99.6%	2.2%
1,1-Dichloroethene	44.7	50.0	89.4%	45.7	50.0	91.4%	2.2%
1,1-Dichloroethane	49.6	50.0	99.2%	51.0	50.0	102%	2.8%
trans-1,2-Dichloroethene	50.4	50.0	101%	51.5	50.0	103%	2.2%
cis-1,2-Dichloroethene	49.0	50.0	98.0%	52.6	50.0	105%	7.1%
Chloroform	46.9	50.0	93.8%	48.4	50.0	96.8%	3.1%
1,2-Dichloroethane	48.2	50.0	96.4%	49.5	50.0	99.0%	2.7%
2-Butanone	247	250	98.8%	261	250	104%	5.5%
1,1,1-Trichloroethane	48.3	50.0	96.6%	49.5	50.0	99.0%	2.5%
Carbon Tetrachloride	50.1	50.0	100%	50.5	50.0	101%	0.8%
Vinyl Acetate	49.4	50.0	98.8%	51.5	50.0	103%	4.2%
Bromodichloromethane	52.0	50.0	104%	53.3	50.0	107%	2.5%
1,2-Dichloropropane	51.8	50.0	104%	53.7	50.0	107%	3.6%
cis-1,3-Dichloropropene	51.6	50.0	103%	53.3	50.0	107%	3.2%
Trichloroethene	51.8	50.0	104%	52.8	50.0	106%	1.9%
Dibromochloromethane	52.1	50.0	104%	53.8	50.0	108%	3.2%
1,1,2-Trichloroethane	48.5	50.0	97.0%	50.9	50.0	102%	4.8%
Benzene	49.9	50.0	99.8%	51.2	50.0	102%	2.6%
trans-1,3-Dichloropropene	51.9	50.0	104%	53.1	50.0	106%	2.3%
2-Chloroethylvinylether	42.6	50.0	85.2%	44.5	50.0	89.0%	4.4%
Bromoform	56.9	50.0	114%	56.9	50.0	114%	0.0%
4-Methyl-2-Pentanone (MIBK)	266	250	106%	278	250	111%	4.4%
2-Hexanone	262	250	105%	268	250	107%	2.3%
Tetrachloroethene	56.0	50.0	112%	54.2	50.0	108%	3.3%
1,1,2,2-Tetrachloroethane	54.2	50.0	108%	54.3	50.0	109%	0.2%
Toluene	51.7	50.0	103%	52.1	50.0	104%	0.8%
Chlorobenzene	52.0	50.0	104%	52.0	50.0	104%	0.0%
Ethylbenzene	51.5	50.0	103%	51.2	50.0	102%	0.6%
Styrene	54.6	50.0	109%	54.4	50.0	109%	0.4%
Trichlorofluoromethane	46.0	50.0	92.0%	44.8	50.0	89.6%	2.6%
1,1,2-Trichloro-1,2,2-trifl	46.1	50.0	92.2%	45.5	50.0	91.0%	1.3%
m,p-Xylene	102	100	102%	103	100	103%	1.0%
o-Xylene	52.8	50.0	106%	55.1	50.0	110%	4.3%
1,2-Dichlorobenzene	55.3	50.0	111%	55.7	50.0	111%	0.7%
1,3-Dichlorobenzene	57.1	50.0	114%	56.6	50.0	113%	0.9%
1,4-Dichlorobenzene	56.5	50.0	113%	56.3	50.0	113%	0.4%
Acrolein	216	250	86.4%	218	250	87.2%	0.9%
Methyl Iodide	58.1	50.0	116%	60.4	50.0	121%	3.9%
Bromoethane	50.7	50.0	101%	53.6	50.0	107%	5.6%
Acrylonitrile	49.8	50.0	99.6%	52.6	50.0	105%	5.5%
1,1-Dichloropropene	54.5	50.0	109%	55.7	50.0	111%	2.2%
Dibromomethane	50.0	50.0	100%	52.7	50.0	105%	5.3%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-080504

Page 2 of 2

LCS/LCSD

Lab Sample ID: LCS-080504

QC Report No: GX14-Windward Environmental

LIMS ID: 04-12015

Project: LDW-Seep Sampling

Matrix: Water

Date Analyzed: 08/05/04 11:49

Purge Volume: 5.0 mL

LCSD: 08/05/04 12:31

LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,1,1,2-Tetrachloroethane	50.6	50.0	101%	49.9	50.0	99.8%	1.4%
1,2-Dibromo-3-chloropropane	51.5	50.0	103%	51.4	50.0	103%	0.2%
1,2,3-Trichloropropane	53.7	50.0	107%	54.6	50.0	109%	1.7%
trans-1,4-Dichloro-2-butene	52.0	50.0	104%	51.0	50.0	102%	1.9%
1,3,5-Trimethylbenzene	57.9	50.0	116%	58.0	50.0	116%	0.2%
1,2,4-Trimethylbenzene	58.5	50.0	117%	57.5	50.0	115%	1.7%
Hexachlorobutadiene	59.2	50.0	118%	58.1	50.0	116%	1.9%
Ethylene Dibromide	51.1	50.0	102%	53.0	50.0	106%	3.7%
Bromochloromethane	48.7	50.0	97.4%	50.6	50.0	101%	3.8%
2,2-Dichloropropane	51.0	50.0	102%	51.8	50.0	104%	1.6%
1,3-Dichloropropane	50.7	50.0	101%	51.9	50.0	104%	2.3%
Isopropylbenzene	59.6	50.0	119%	60.9	50.0	122%	2.2%
n-Propylbenzene	57.1	50.0	114%	57.7	50.0	115%	1.0%
Bromobenzene	56.3	50.0	113%	56.8	50.0	114%	0.9%
2-Chlorotoluene	57.8	50.0	116%	61.8	50.0	124%	6.7%
4-Chlorotoluene	52.4	50.0	105%	52.1	50.0	104%	0.6%
tert-Butylbenzene	57.5	50.0	115%	57.6	50.0	115%	0.2%
sec-Butylbenzene	57.4	50.0	115%	57.6	50.0	115%	0.3%
4-Isopropyltoluene	59.4	50.0	119%	60.3	50.0	121%	1.5%
n-Butylbenzene	62.7	50.0	125%	62.7	50.0	125%	0.0%
1,2,4-Trichlorobenzene	65.0	50.0	130%	62.8	50.0	126%	3.4%
Naphthalene	56.1	50.0	112%	59.4	50.0	119%	5.7%
1,2,3-Trichlorobenzene	59.6	50.0	119%	59.2	50.0	118%	0.7%

Results reported in µg/L

RPD calculated using sample concentrations per SW846.

LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	86.7%	88.1%
d8-Toluene	94.2%	96.1%
Bromofluorobenzene	93.5%	94.7%
d4-1,2-Dichlorobenzene	101%	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 2

Sample ID: MB-080504
METHOD BLANK

Lab Sample ID: MB-080504

QC Report No: GX14-Windward Environmental

LIMS ID: 04-12015

Project: LDW-Seep Sampling

Matrix: Water

Data Release Authorized:

Date Sampled: NA

Reported: 08/11/04

Date Received: NA

Instrument/Analyst: FINN5/PAB

Sample Amount: 5.00 mL

Date Analyzed: 08/05/04 12:59

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: MB-080504

METHOD BLANK

Lab Sample ID: MB-080504

LIMS ID: 04-12015

Matrix: Water

Date Analyzed: 08/05/04 12:59

QC Report No: GX14-Windward Environmental

Project: LDW-Seep Sampling

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	86.3%
d8-Toluene	94.0%
Bromofluorobenzene	92.1%
d4-1,2-Dichlorobenzene	97.4%

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Contract: WINDWARD ENVIRONMENTAL

Lab Code: ARI Case No.: LDW-SEEP SAMPLING SDG No.: GX14

Lab File ID (Standard): 0500805A Date Analyzed: 08/05/04

Instrument ID: FINN5 Time Analyzed: 1101

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	98673	6.30	147136	7.31	144104	10.46
UPPER LIMIT	197346	6.80	294272	7.81	288208	10.96
LOWER LIMIT	49336	5.80	73568	6.81	72052	9.96
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 LCS0805	102097	6.29	149085	7.30	147213	10.45
02 LCS0805	102639	6.30	150679	7.31	151762	10.46
03 MB0805	109510	6.31	150621	7.34	145800	10.47
04 SP-10	106626	6.30	156004	7.31	154602	10.46
05 SP-62	105906	6.31	157879	7.32	160911	10.47
06 TRIP BLANK	101281	6.31	149167	7.34	145470	10.47
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 = d5-Chlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Contract: WINDWARD ENVIRONMENTAL

Lab Code: ARI Case No.: LDW-SEEP SAMPLING SDG No.: GX14

Lab File ID (Standard): 0500805A Date Analyzed: 08/05/04

Instrument ID: FINN5 Time Analyzed: 1101

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	69030	13.14				
UPPER LIMIT	138060	13.64				
LOWER LIMIT	34515	12.64				
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 LCS0805	68275	13.14				
02 LCS0805	70933	13.15				
03 MB0805	68524	13.16				
04 SP-10	73230	13.15				
05 SP-62	74170	13.16				
06 TRIP BLANK	68349	13.16				
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

Data Summary Package

**Prepared
for**

Windward Environmental

Project: LDW-SEEP SAMPLING

ARI Job No. GU26

**Prepared
By**

Analytical Resources, Inc.

Volatiles

000008

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water 5 mL

QC Report No: GU26

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
GU26G	TRIP BLANK	111%	115%	109%	113%	0
GU26B	LDW-SP-71-C-U	107%	109%	102%	110%	0
071004MB	Method Blank	109%	114%	107%	112%	0
GU26LCS	Lab Cntrl Sample	102%	115%	109%	108%	0
GU26LCSD	Lab Cntrl Sample Dp	90.3%	105%	99.0%	99.7%	0
GU26D	LDW-SP-76-C-U	112%	115%	107%	112%	0
GU26F	LDW-SP-69-C-U	114%	112%	106%	112%	0

**** PROJECT SPECIFIED LIMITS ****

(DCE) = 1,2-Dichloroethane-d4
 (TOL) = Toluene-d8
 (BFB) = Bromofluorobenzene
 (DCB) = 1,2-Dichlorobenzene-d4

LCS/MB LIMITS

(-)
 (-)
 (-)
 (-)

QC LIMITS

(-)
 (-)
 (-)
 (-)

Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Page 1 of 2


Sample ID: LDW-SP-71-C-U

SAMPLE

Lab Sample ID: GU26B

LIMS ID: 04-10121

Matrix: Water

Data Release Authorized: 

Reported: 07/15/04

QC Report No: GU26-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 06/29/04

Date Received: 06/29/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/10/04 15:28

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

000010

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Page 2 of 2

Sample ID: LDW-SP-71-C-U

SAMPLE

Lab Sample ID: GU26B

LIMS ID: 04-10121

Matrix: Water

Date Analyzed: 07/10/04 15:28

QC Report No: GU26-Windward Environmental

Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	107%
d8-Toluene	109%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	110%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Page 1 of 2

Sample ID: LDW-SP-76-C-U

SAMPLE

Lab Sample ID: GU26D

LIMS ID: 04-10123

Matrix: Water

Data Release Authorized:

Reported: 07/15/04

QC Report No: GU26-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 06/29/04

Date Received: 06/29/04

Instrument/Analyst: FINN3/LJR

Date Analyzed: 07/10/04 15:56

Sample Amount: 5.00 mL

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: LDW-SP-76-C-U

SAMPLE

Lab Sample ID: GU26D

LIMS ID: 04-10123

Matrix: Water

Date Analyzed: 07/10/04 15:56

QC Report No: GU26-Windward Environmental

Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	115%
Bromofluorobenzene	107%
d4-1,2-Dichlorobenzene	112%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Page 1 of 2

Sample ID: LDW-SP-69-C-U
SAMPLE

Lab Sample ID: GU26F

LIMS ID: 04-10125

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 07/15/04

QC Report No: GU26-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 06/29/04

Date Received: 06/29/04

Instrument/Analyst: FINN3/LJR

Date Analyzed: 07/10/04 16:25

Sample Amount: 5.00 mL

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B
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Sample ID: LDW-SP-69-C-U
SAMPLE

Lab Sample ID: GU26F
LIMS ID: 04-10125
Matrix: Water
Date Analyzed: 07/10/04 16:25

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	112%
Bromofluorobenzene	106%
d4-1,2-Dichlorobenzene	112%


ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 2Sample ID: TRIP BLANK
SAMPLE

Lab Sample ID: GU26G

LIMS ID: 04-10071

Matrix: Water

Data Release Authorized: 

Reported: 07/15/04

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled:

Date Received: 06/29/04

Instrument/Analyst: FINN3/LJR

Date Analyzed: 07/10/04 16:53

Sample Amount: 5.00 mL

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: TRIP BLANK
SAMPLE

Lab Sample ID: GU26G

LIMS ID: 04-10071

Matrix: Water

Date Analyzed: 07/10/04 16:53

QC Report No: GU26-Windward Environmental

Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	111%
d8-Toluene	115%
Bromofluorobenzene	109%
d4-1,2-Dichlorobenzene	113%

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-071004

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LCS/LCSD


Lab Sample ID: LCS-071004

QC Report No: GU26-Windward Environmental

LIMS ID: 04-10123

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: 

Date Sampled: NA

Reported: 07/15/04

Date Received: NA

Instrument/Analyst LCS: FINN3/LJR

Sample Amount LCS: 5.00 mL

LCSD: FINN3/LJR

LCSD: 5.00 mL

Date Analyzed LCS: 07/10/04 13:59

Purge Volume LCS: 5.0 mL

LCSD: 07/10/04 14:31

LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	45.9	50.0	91.8%	44.8	50.0	89.6%	2.4%
Bromomethane	49.0	50.0	98.0%	48.3	50.0	96.6%	1.4%
Vinyl Chloride	46.4	50.0	92.8%	46.2	50.0	92.4%	0.4%
Chloroethane	46.8	50.0	93.6%	46.7	50.0	93.4%	0.2%
Methylene Chloride	45.5	50.0	91.0%	46.2	50.0	92.4%	1.5%
Acetone	202	250	80.8%	240	250	96.0%	17.2%
Carbon Disulfide	54.0	50.0	108%	48.6	50.0	97.2%	10.5%
1,1-Dichloroethene	47.5	50.0	95.0%	47.6	50.0	95.2%	0.2%
1,1-Dichloroethane	47.5	50.0	95.0%	47.9	50.0	95.8%	0.8%
trans-1,2-Dichloroethene	46.0	50.0	92.0%	46.8	50.0	93.6%	1.7%
cis-1,2-Dichloroethene	50.3	50.0	101%	51.2	50.0	102%	1.8%
Chloroform	49.3	50.0	98.6%	49.8	50.0	99.6%	1.0%
1,2-Dichloroethane	47.5	50.0	95.0%	49.0	50.0	98.0%	3.1%
2-Butanone	215	250	86.0%	252	250	101%	15.8%
1,1,1-Trichloroethane	52.1	50.0	104%	53.0	50.0	106%	1.7%
Carbon Tetrachloride	50.8	50.0	102%	51.8	50.0	104%	1.9%
Vinyl Acetate	51.6	50.0	103%	52.2	50.0	104%	1.2%
Bromodichloromethane	50.6	50.0	101%	51.4	50.0	103%	1.6%
1,2-Dichloropropane	50.7	50.0	101%	52.0	50.0	104%	2.5%
cis-1,3-Dichloropropene	44.6	50.0	89.2%	45.4	50.0	90.8%	1.8%
Trichloroethene	49.4	50.0	98.8%	50.9	50.0	102%	3.0%
Dibromochloromethane	42.4	50.0	84.8%	45.0	50.0	90.0%	5.9%
1,1,2-Trichloroethane	49.1	50.0	98.2%	51.5	50.0	103%	4.8%
Benzene	52.9	50.0	106%	53.5	50.0	107%	1.1%
trans-1,3-Dichloropropene	43.0	50.0	86.0%	44.9	50.0	89.8%	4.3%
2-Chloroethylvinylether	44.9	50.0	89.8%	45.5	50.0	91.0%	1.3%
Bromoform	37.8	50.0	75.6%	42.3	50.0	84.6%	11.2%
4-Methyl-2-Pentanone (MIBK)	243	250	97.2%	272	250	109%	11.3%
2-Hexanone	168	250	67.2%	219	250	87.6%	26.4%
Tetrachloroethene	49.8	50.0	99.6%	51.9	50.0	104%	4.1%
1,1,2,2-Tetrachloroethane	46.5	50.0	93.0%	51.8	50.0	104%	10.8%
Toluene	52.8	50.0	106%	54.0	50.0	108%	2.2%
Chlorobenzene	50.2	50.0	100%	50.9	50.0	102%	1.4%
Ethylbenzene	51.3	50.0	103%	53.9	50.0	108%	4.9%
Styrene	44.6	50.0	89.2%	45.2	50.0	90.4%	1.3%
Trichlorofluoromethane	47.1	50.0	94.2%	46.7	50.0	93.4%	0.9%
1,1,2-Trichloro-1,2,2-trifl	52.6	50.0	105%	47.8	50.0	95.6%	9.6%
m,p-Xylene	106	100	106%	110	100	110%	3.7%
o-Xylene	47.2	50.0	94.4%	49.9	50.0	99.8%	5.6%
1,2-Dichlorobenzene	50.5	50.0	101%	53.3	50.0	107%	5.4%
1,3-Dichlorobenzene	51.3	50.0	103%	54.0	50.0	108%	5.1%
1,4-Dichlorobenzene	49.1	50.0	98.2%	51.7	50.0	103%	5.2%
Acrolein	225	250	90.0%	260	250	104%	14.4%
Methyl Iodide	50.9	50.0	102%	48.2	50.0	96.4%	5.4%
Bromoethane	51.4	50.0	103%	48.1	50.0	96.2%	6.6%
Acrylonitrile	42.5	50.0	85.0%	46.5	50.0	93.0%	9.0%
1,1-Dichloropropene	50.7	50.0	101%	51.7	50.0	103%	2.0%
Dibromomethane	47.6	50.0	95.2%	50.7	50.0	101%	6.3%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: LCS-071004

LCS/LCSD

Lab Sample ID: LCS-071004

LIMS ID: 04-10123

Matrix: Water

Date Analyzed: 07/10/04 13:59

LCSD: 07/10/04 14:31

QC Report No: GU26-Windward Environmental

Project: LDW-SEEP SAMPLING

Purge Volume: 5.0 mL

LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,1,1,2-Tetrachloroethane	47.7	50.0	95.4%	49.1	50.0	98.2%	2.9%
1,2-Dibromo-3-chloropropane	34.2	50.0	68.4%	41.4	50.0	82.8%	19.0%
1,2,3-Trichloropropane	45.5	50.0	91.0%	53.2	50.0	106%	15.6%
trans-1,4-Dichloro-2-butene	51.3	50.0	103%	54.6	50.0	109%	6.2%
1,3,5-Trimethylbenzene	40.9	50.0	81.8%	43.7	50.0	87.4%	6.6%
1,2,4-Trimethylbenzene	40.7	50.0	81.4%	43.4	50.0	86.8%	6.4%
Hexachlorobutadiene	48.3	50.0	96.6%	52.6	50.0	105%	8.5%
Ethylene Dibromide	43.5	50.0	87.0%	46.4	50.0	92.8%	6.5%
Bromochloromethane	49.3	50.0	98.6%	50.6	50.0	101%	2.6%
2,2-Dichloropropane	52.5	50.0	105%	53.1	50.0	106%	1.1%
1,3-Dichloropropane	48.1	50.0	96.2%	52.1	50.0	104%	8.0%
Isopropylbenzene	57.3	50.0	115%	60.0	50.0	120%	4.6%
n-Propylbenzene	42.6	50.0	85.2%	44.6	50.0	89.2%	4.6%
Bromobenzene	51.3	50.0	103%	52.8	50.0	106%	2.9%
2-Chlorotoluene	53.9	50.0	108%	54.2	50.0	108%	0.6%
4-Chlorotoluene	52.7	50.0	105%	55.1	50.0	110%	4.5%
tert-Butylbenzene	55.2	50.0	110%	58.1	50.0	116%	5.1%
sec-Butylbenzene	56.4	50.0	113%	60.4	50.0	121%	6.8%
4-Isopropyltoluene	41.7	50.0	83.4%	45.3	50.0	90.6%	8.3%
n-Butylbenzene	56.1	50.0	112%	59.4	50.0	119%	5.7%
1,2,4-Trichlorobenzene	43.5	50.0	87.0%	46.1	50.0	92.2%	5.8%
Naphthalene	36.5	50.0	73.0%	43.0	50.0	86.0%	16.4%
1,2,3-Trichlorobenzene	49.7	50.0	99.4%	54.1	50.0	108%	8.5%

Results reported in µg/L

RPD calculated using sample concentrations per SW846.

LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	102%	90.3%
d8-Toluene	115%	105%
Bromofluorobenzene	109%	99.0%
d4-1,2-Dichlorobenzene	108%	99.7%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-071004

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METHOD BLANK

Lab Sample ID: MB-071004

QC Report No: GU26-Windward Environmental

LIMS ID: 04-10123

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: *AS*

Date Sampled: NA

Reported: 07/15/04

Date Received: NA

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/10/04 15:00

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-071004

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METHOD BLANK

Lab Sample ID: MB-071004

QC Report No: GU26-Windward Environmental

LIMS ID: 04-10123

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Analyzed: 07/10/04 15:00

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	109%
d8-Toluene	114%
Bromofluorobenzene	107%
d4-1,2-Dichlorobenzene	112%

Semivolatiles

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	DXN TOT	OUT
MB-070204	80.0%	71.6%	88.0%	58.4%	75.1%	75.5%	79.7%	79.1%	62.8%	0
LCS-070204	73.5%	70.7%	88.5%	60.3%	74.6%	71.5%	81.5%	75.9%	61.8%	0
LDW-SP-71-C-F	69.6%	65.0%	83.8%	51.2%	62.9%	62.2%	85.4%	67.8%	53.2%	0
LDW-SP-71-C-U	61.6%	58.4%	85.3%	45.5%	56.0%	54.5%	81.3%	59.7%	49.0%	0
LDW-SP-76-C-F	69.2%	67.0%	84.5%	50.1%	62.2%	58.7%	91.7%	66.6%	47.7%	0
LDW-SP-76-C-U	74.5%	73.2%	85.6%	56.6%	69.5%	67.3%	92.7%	74.0%	60.0%	0
LDW-SP-69-C-F	78.5%	72.3%	82.9%	61.6%	70.3%	69.5%	87.0%	76.1%	59.9%	0
LDW-SP-69-C-U	57.6%	55.8%	81.8%	43.8%	52.6%	49.4%	82.7%	54.9%	42.7%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(44-107)	(38-111)
(FBP) = 2-Fluorobiphenyl	(43-99)	(30-109)
(TPH) = d14-p-Terphenyl	(44-123)	(37-113)
(DCB) = d4-1,2-Dichlorobenzene	(36-88)	(35-88)
(PHL) = d5-Phenol	(47-101)	(42-98)
(2FP) = 2-Fluorophenol	(44-102)	(40-99)
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)
(2CP) = d4-2-Chlorophenol	(50-102)	(47-101)
(DXN) = d8-1,4-Dioxane	(30-160)	(30-160)

Prep Method: SW3520C
Log Number Range: 04-10120 to 04-10125

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 2

Sample ID: LDW-SP-71-C-F
SAMPLE

Lab Sample ID: GU26A

QC Report No: GU26-Windward Environmental

LIMS ID: 04-10120

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: 

Date Sampled: 06/29/04

Reported: 07/15/04

Date Received: 06/29/04

Date Extracted: 07/02/04

Sample Amount: 500 mL

Date Analyzed: 07/14/04 08:03

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

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ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-71-C-F
SAMPLE

Lab Sample ID: GU26A
LIMS ID: 04-10120
Matrix: Water
Date Analyzed: 07/14/04 08:03

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	69.6%	2-Fluorobiphenyl	65.0%
d14-p-Terphenyl	83.8%	d4-1,2-Dichlorobenzene	51.2%
d5-Phenol	62.9%	2-Fluorophenol	62.2%
2,4,6-Tribromophenol	85.4%	d4-2-Chlorophenol	67.8%
d8-1,4-Dioxane	53.2%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 2

Sample ID: LDW-SP-71-C-U
SAMPLE

Lab Sample ID: GU26B
LIMS ID: 04-10121
Matrix: Water

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

Data Release Authorized:
Reported: 07/15/04

Date Sampled: 06/29/04
Date Received: 06/29/04

Date Extracted: 07/02/04
Date Analyzed: 07/14/04 08:34
Instrument/Analyst: NT6/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-71-C-U
SAMPLE

Lab Sample ID: GU26B
LIMS ID: 04-10121
Matrix: Water
Date Analyzed: 07/14/04 08:34

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo (a) anthracene	1.0	< 1.0 U
117-81-7	bis (2-Ethylhexyl)phthalate	1.0	1.2
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo (b) fluoranthene	1.0	< 1.0 U
207-08-9	Benzo (k) fluoranthene	1.0	< 1.0 U
50-32-8	Benzo (a) pyrene	1.0	< 1.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	< 1.0 U
53-70-3	Dibenz (a, h) anthracene	1.0	< 1.0 U
191-24-2	Benzo (g, h, i) perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	61.6%	2-Fluorobiphenyl	58.4%
d14-p-Terphenyl	85.3%	d4-1,2-Dichlorobenzene	45.5%
d5-Phenol	56.0%	2-Fluorophenol	54.5%
2,4,6-Tribromophenol	81.3%	d4-2-Chlorophenol	59.7%
d8-1,4-Dioxane	49.0%		

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-76-C-F
SAMPLE

Lab Sample ID: GU26C
LIMS ID: 04-10122
Matrix: Water
Data Release Authorized:
Reported: 07/15/04

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 06/29/04
Date Received: 06/29/04

Date Extracted: 07/02/04
Date Analyzed: 07/14/04 09:06
Instrument/Analyst: NT6/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	1.0

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-76-C-F
SAMPLE

Lab Sample ID: GU26C
LIMS ID: 04-10122
Matrix: Water
Date Analyzed: 07/14/04 09:06

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo (a) anthracene	1.0	< 1.0 U
117-81-7	bis (2-Ethylhexyl)phthalate	1.0	3.8
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo (b) fluoranthene	1.0	< 1.0 U
207-08-9	Benzo (k) fluoranthene	1.0	< 1.0 U
50-32-8	Benzo (a) pyrene	1.0	< 1.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	< 1.0 U
53-70-3	Dibenz (a,h) anthracene	1.0	< 1.0 U
191-24-2	Benzo (g,h,i) perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery


d5-Nitrobenzene	69.2%	2-Fluorobiphenyl	67.0%
d14-p-Terphenyl	84.5%	d4-1,2-Dichlorobenzene	50.1%
d5-Phenol	62.2%	2-Fluorophenol	58.7%
2,4,6-Tribromophenol	91.7%	d4-2-Chlorophenol	66.6%
d8-1,4-Dioxane	47.7%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 2Sample ID: LDW-SP-76-C-U
SAMPLE

Lab Sample ID: GU26D

LIMS ID: 04-10123

Matrix: Water

Data Release Authorized: 

Reported: 07/15/04

QC Report No: GU26-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 06/29/04

Date Received: 06/29/04

Date Extracted: 07/02/04

Date Analyzed: 07/14/04 09:37

Instrument/Analyst: NT6/Van

Sample Amount: 500 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

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ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-76-C-U
SAMPLE

Lab Sample ID: GU26D
LIMS ID: 04-10123
Matrix: Water
Date Analyzed: 07/14/04 09:37

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	74.5%	2-Fluorobiphenyl	73.2%
d14-p-Terphenyl	85.6%	d4-1,2-Dichlorobenzene	56.6%
d5-Phenol	69.5%	2-Fluorophenol	67.3%
2,4,6-Tribromophenol	92.7%	d4-2-Chlorophenol	74.0%
d8-1,4-Dioxane	60.0%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 2Sample ID: LDW-SP-69-C-F
SAMPLE

Lab Sample ID: GU26E

QC Report No: GU26-Windward Environmental

LIMS ID: 04-10124

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: *MS*

Date Sampled: 06/29/04

Reported: 07/15/04

Date Received: 06/29/04

Date Extracted: 07/02/04

Sample Amount: 500 mL

Date Analyzed: 07/14/04 10:09

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	5.5

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ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-69-C-F
SAMPLE

Lab Sample ID: GU26E
LIMS ID: 04-10124
Matrix: Water
Date Analyzed: 07/14/04 10:09

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.5%	2-Fluorobiphenyl	72.3%
d14-p-Terphenyl	82.9%	d4-1,2-Dichlorobenzene	61.6%
d5-Phenol	70.3%	2-Fluorophenol	69.5%
2,4,6-Tribromophenol	87.0%	d4-2-Chlorophenol	76.1%
d8-1,4-Dioxane	59.9%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 2Sample ID: LDW-SP-69-C-U
SAMPLE

Lab Sample ID: GU26F

QC Report No: GU26-Windward Environmental

LIMS ID: 04-10125

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: *AS*

Date Sampled: 06/29/04

Reported: 07/15/04

Date Received: 06/29/04

Date Extracted: 07/02/04

Sample Amount: 500 mL

Date Analyzed: 07/14/04 10:41

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

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ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 2 of 2

Sample ID: LDW-SP-69-C-U
SAMPLE

Lab Sample ID: GU26F
LIMS ID: 04-10125
Matrix: Water
Date Analyzed: 07/14/04 10:41

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo (a) anthracene	1.0	< 1.0 U
117-81-7	bis (2-Ethylhexyl) phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo (b) fluoranthene	1.0	< 1.0 U
207-08-9	Benzo (k) fluoranthene	1.0	< 1.0 U
50-32-8	Benzo (a) pyrene	1.0	< 1.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	< 1.0 U
53-70-3	Dibenz (a,h) anthracene	1.0	< 1.0 U
191-24-2	Benzo (g,h,i) perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	57.6%	2-Fluorobiphenyl	55.8%
d14-p-Terphenyl	81.8%	d4-1,2-Dichlorobenzene	43.8%
d5-Phenol	52.6%	2-Fluorophenol	49.4%
2,4,6-Tribromophenol	82.7%	d4-2-Chlorophenol	54.9%
d8-1,4-Dioxane	42.7%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 1

Sample ID: LCS-070204
LAB CONTROL

Lab Sample ID: LCS-070204
LIMS ID: 04-10120
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 07/15/04

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 06/29/04
Date Received: 06/29/04

Date Extracted: 07/02/04
Date Analyzed: 07/13/04 14:28
Instrument/Analyst: NT6/Van
GPC Cleanup: NO

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

Analyte	Lab Control	Spike Added	Recovery
Phenol	22.0	37.5	58.7%
2-Chlorophenol	21.3	37.5	56.8%
1,4-Dichlorobenzene	10.5	25.0	42.0%
N-Nitroso-Di-N-Propylamine	15.1	25.0	60.4%
1,2,4-Trichlorobenzene	10.9	25.0	43.6%
4-Chloro-3-methylphenol	23.3	37.5	62.1%
Acenaphthene	14.9	25.0	59.6%
4-Nitrophenol	25.6	37.5	68.3%
2,4-Dinitrotoluene	15.4	25.0	61.6%
Pentachlorophenol	26.7	37.5	71.2%
Pyrene	17.9	25.0	71.6%
1,4-Dioxane	12.1	25.0	48.4%

Semivolatile Surrogate Recovery

d5-Nitrobenzene	73.5%
2-Fluorobiphenyl	70.7%
d14-p-Terphenyl	88.5%
d4-1,2-Dichlorobenzene	60.3%
d5-Phenol	74.6%
2-Fluorophenol	71.5%
2,4,6-Tribromophenol	81.5%
d4-2-Chlorophenol	75.9%
d8-1,4-Dioxane	61.8%

Results reported in $\mu\text{g/L}$

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

GU59MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: WINDWARD ENVIRONMENTAL

Lab Code: GU26

Project: LDW-SEEP SAMPLING

SDG No.: GU26

Lab File ID: GU59MB

Lab Sample ID: GU59MBW1

Instrument ID: NT6

Date Extracted: 07/02/04

Matrix: (soil/water) WATER

Date Analyzed: 07/13/04

Level: (low/med) LOW


Time Analyzed: 1356

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
01	GU59LCSW1	GU59LCSW1	GU59SB	07/13/04
02	LDW-SP-10-C-F	GU59A	GU59A	07/13/04
03	LDW-SP-12-C-F	GU59B	GU59B	07/13/04
04	LDW-SP-20-C-F	GU59C	GU59C	07/13/04
05	LDW-SP-41-C-F	GU59D	GU59D	07/13/04
06	LDW-SP-41-C-F MS	GU59DMS	GU59DMS	07/13/04
07	LDW-SP-41-C-F MS	GU59DMSD	GU59DMSD	07/13/04
08	LDW-SP-12-C-U	GU59E	GU59E	07/13/04
09	LDW-SP-20-C-U	GU59F	GU59F	07/13/04
10	LDW-SP-41-C-U	GU59G	GU59G	07/13/04
11	LDW-SP-41-C-U MS	GU59GMS	GU59GMS	07/13/04
12	LDW-SP-41-C-U MS	GU59GMSD	GU59GMSD	07/13/04
13	LDW-SP-39-C-F	GU59H	GU59H	07/13/04
14	LDW-SP-80-C-F	GU59I	GU59I	07/13/04
15	LDW-SP-39-C-U	GU59J	GU59J	07/13/04
16	LDW-SP-80-C-U	GU59K	GU59K	07/13/04
17	LDW-SP-71-C-F	GU26A	GU26A	07/14/04
18	LDW-SP-71-C-U	GU26B	GU26B	07/14/04
19	LDW-SP-76-C-F	GU26C	GU26C	07/14/04
20	LDW-SP-76-C-U	GU26D	GU26D	07/14/04
21	LDW-SP-69-C-F	GU26E	GU26E	07/14/04
22	LDW-SP-69-C-U	GU26F	GU26F	07/14/04
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

Sample ID: MB-070204
METHOD BLANK

Lab Sample ID: MB-070204
LIMS ID: 04-10120
Matrix: Water
Data Release Authorized: 
Reported: 07/15/04

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: NA
Date Received: NA

Date Extracted: 07/02/04
Date Analyzed: 07/13/04 13:56
Instrument/Analyst: NT6/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

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Lab Sample ID: MB-070204
 LIMS ID: 04-10120
 Matrix: Water
 Date Analyzed: 07/13/04 13:56

QC Report No: GU26-Windward Environmental
 Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	80.0%	2-Fluorobiphenyl	71.6%
d14-p-Terphenyl	88.0%	d4-1,2-Dichlorobenzene	58.4%
d5-Phenol	75.1%	2-Fluorophenol	75.5%
2,4,6-Tribromophenol	79.7%	d4-2-Chlorophenol	79.1%
d8-1,4-Dioxane	62.8%		

Manchester Pesticides

SW8081/PESTICIDE WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

<u>Client ID</u>	<u>DCBP</u>	<u>TCMX</u>	<u>TOT OUT</u>
MB-070204	75.8%	32.0%	0
LCS-070204	74.0%	31.8%	0
LDW-SP-71-C-F	56.8%	33.8%	0
LDW-SP-71-C-U	59.0%	38.2%	0
LDW-SP-76-C-F	63.8%	31.8%	0
LDW-SP-76-C-U	74.5%	34.0%	0
LDW-SP-69-C-F	49.8%	38.2%	0
LDW-SP-69-C-U	33.8%	39.5%	0

**** PROJECT SPECIFIED LIMITS ****

LCS/MB LIMITS

QC LIMITS

(DCBP) = Decachlorobiphenyl
(TCMX) = Tetrachlorometaxylene

(30-160)
(30-160)

(30-160)
(30-160)

Prep Method: Manchester
Log Number Range: 04-10120 to 04-10125

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-71-C-F

SAMPLE

Lab Sample ID: GU26A

LIMS ID: 04-10120

Matrix: Water

Data Release Authorized: *AB*

Reported: 07/14/04

QC Report No: GU26-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 06/29/04

Date Received: 06/29/04

Date Extracted: 07/02/04

Date Analyzed: 07/09/04 15:21

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 6.7

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	56.8%
Tetrachlorometaxylene	33.8%

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD
Page 1 of 1

Sample ID: LDW-SP-71-C-U
SAMPLE

Lab Sample ID: GU26B
LIMS ID: 04-10121
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 07/14/04

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 06/29/04
Date Received: 06/29/04

Date Extracted: 07/02/04
Date Analyzed: 07/09/04 15:55
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
pH: 7.3
Florisil Cleanup: No
Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U


Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	59.0%
Tetrachlorometaxylene	38.2%

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD
Page 1 of 1

Sample ID: LDW-SP-76-C-F
SAMPLE

Lab Sample ID: GU26C
LIMS ID: 04-10122
Matrix: Water
Data Release Authorized: 
Reported: 07/14/04

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 06/29/04
Date Received: 06/29/04

Date Extracted: 07/02/04
Date Analyzed: 07/09/04 16:29
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
pH: 7.1
Florisil Cleanup: No
Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	63.8%
Tetrachlorometaxylene	31.8%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-76-C-U

SAMPLE


Lab Sample ID: GU26D

QC Report No: GU26-Windward Environmental

LIMS ID: 04-10123

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: 

Date Sampled: 06/29/04

Reported: 07/14/04

Date Received: 06/29/04

Date Extracted: 07/02/04

Sample Amount: 3000 mL

Date Analyzed: 07/09/04 17:03

Final Extract Volume: 0.50 mL

Instrument/Analyst: ECD4/YZ

Dilution Factor: 1.00

GPC Cleanup: No

pH: 6.9

Sulfur Cleanup: Yes

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.0032	< 0.0032 Y
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	74.5%
Tetrachlorometaxylene	34.0%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-69-C-F

SAMPLE

Lab Sample ID: GU26E

QC Report No: GU26-Windward Environmental

LIMS ID: 04-10124

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: *[Signature]*

Date Sampled: 06/29/04

Reported: 07/14/04

Date Received: 06/29/04

Date Extracted: 07/02/04

Sample Amount: 3000 mL

Date Analyzed: 07/09/04 17:37

Final Extract Volume: 0.50 mL

Instrument/Analyst: ECD4/YZ

Dilution Factor: 1.00

GPC Cleanup: No

pH: 7.4

Sulfur Cleanup: Yes

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	49.8%
Tetrachlorometaxylene	38.2%

000047

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-69-C-U

SAMPLE

Lab Sample ID: GU26F

LIMS ID: 04-10125

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 07/14/04

QC Report No: GU26-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 06/29/04

Date Received: 06/29/04

Date Extracted: 07/02/04

Date Analyzed: 07/09/04 18:11

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 6.4

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	33.8%
Tetrachlorometaxylene	39.5%

000048

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LCS-070204

LAB CONTROL

Lab Sample ID: LCS-070204

LIMS ID: 04-10120

Matrix: Water

Data Release Authorized: *AS*

Reported: 07/14/04

QC Report No: GU26-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 06/29/04

Date Received: 06/29/04

Date Extracted: 07/02/04

Date Analyzed: 07/09/04 14:13

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Florisil Cleanup: No

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

Sulfur Cleanup: Yes

Silica Gel: Yes

Analyte	Lab Control	Spike Added	Recovery
alpha-BHC	0.00200	0.00333	60.1%
beta-BHC	0.00233	0.00333	70.0%
delta-BHC	0.00267	0.00333	80.2%
gamma-BHC (Lindane)	0.00218	0.00333	65.5%
Heptachlor	0.00198	0.00333	59.5%
Aldrin	0.00177	0.00333	53.2%
Heptachlor Epoxide	0.00287	0.00333	86.2%
Endosulfan I	0.00258	0.00333	77.5%
Dieldrin	0.00543	0.00667	81.4%
4,4'-DDE	0.00575	0.00667	86.2%
Endrin	0.00607	0.00667	91.0%
Endosulfan II	0.00568	0.00667	85.2%
4,4'-DDD	0.00603	0.00667	90.4%
Endosulfan Sulfate	0.00560	0.00667	84.0%
4,4'-DDT	0.00663	0.00667	99.4%
Methoxychlor	0.0322	0.0333	96.7%
Endrin Ketone	0.00548	0.00667	82.2%
Endrin Aldehyde	0.00080	0.00667	12.0%
gamma Chlordane	0.00243	0.00333	73.0%
alpha Chlordane	0.00242	0.00333	72.7%

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	74.0%
Tetrachlorometaxylene	31.8%

Results reported in $\mu\text{g/L}$ (ppb)

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: MB-070204

METHOD BLANK

Lab Sample ID: MB-070204

LIMS ID: 04-10120

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 07/14/04

QC Report No: GU26-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: NA

Date Received: NA

Date Extracted: 07/02/04

Date Analyzed: 07/09/04 13:39

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: NA

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	75.8%
Tetrachlorometaxylene	32.0%

FORM 4
PCB METHOD BLANK SUMMARY

SAMPLE NO.

GUMBW7/2

Lab Name: ANALYTICAL RESOURCES, INC

Client: WINDWARD ENVIRONMENTAL

ARI Job No.: GU26

Project: LDW-SEEP SAMPLING

Lab Sample ID: GU26MBW7/2

Lab File ID: 0709-08R

Matrix (soil/water) WATER

Extraction: (SepF/Cont/Sonc) OTHER

Sulfur Cleanup (Y/N) Y

Date Extracted: 07/02/04

Date Analyzed (1): 07/09/04

Date Analyzed (2): 07/09/04

Time Analyzed (1): 1339

Time Analyzed (2): 1339

Instrument ID (1): ECD4

Instrument ID (2): ECD4

GC Column (1): RTX-CLP1 ID: 0.53 (mm)

GC Column (2): RTX-CLP2 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	GUSBW7/2	GU26SBW1	07/09/04	07/09/04
02	LDW-SP-71-C-	GU26A	07/09/04	07/09/04
03	LDW-SP-71-C-	GU26B	07/09/04	07/09/04
04	LDW-SP-76-C-	GU26C	07/09/04	07/09/04
05	LDW-SP-76-C-	GU26D	07/09/04	07/09/04
06	LDW-SP-69-C-	GU26E	07/09/04	07/09/04
07	LDW-SP-69-C-	GU26F	07/09/04	07/09/04

PCB

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SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

<u>Client ID</u>	<u>DCBP</u>	<u>TCMX</u>	<u>TOT OUT</u>
MB-070204	72.5%	32.0%	0
LCS-070204	63.2%	35.8%	0
LDW-SP-71-C-F	49.0%	33.8%	0
LDW-SP-71-C-U	40.8%	38.2%	0
LDW-SP-76-C-F	40.8%	31.8%	0
LDW-SP-76-C-U	44.8%	34.0%	0
LDW-SP-69-C-F	37.8%	38.2%	0
LDW-SP-69-C-U	28.2%	39.5%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(42-138)	(25-134)
(TCMX) = Tetrachlorometaxylene	(32-117)	(25-118)

Prep Method: Manchester
Log Number Range: 04-10120 to 04-10125

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LDW-SP-71-C-F
SAMPLE

Lab Sample ID: GU26A
LIMS ID: 04-10120
Matrix: Water
Data Release Authorized:
Reported: 07/13/04

QC Report No: GU26-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 06/29/04
Date Received: 06/29/04

Date Extracted: 07/02/04
Date Analyzed: 07/09/04 15:21
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	49.0%
Tetrachlorometaxylene	33.8%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
 Page 1 of 1

Sample ID: LDW-SP-71-C-U
SAMPLE

Lab Sample ID: GU26B
 LIMS ID: 04-10121
 Matrix: Water
 Data Release Authorized: *MS*
 Reported: 11/02/04

QC Report No: GU26-Windward Environmental
 Project: LDW-SEEP SAMPLING
 Date Sampled: 06/29/04
 Date Received: 06/29/04

Date Extracted: 07/02/04
 Date Analyzed: 07/09/04 15:55
 Instrument/Analyst: ECD4/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes

Sample Amount: 3000 mL
 Final Extract Volume: 0.50 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	0.020
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	40.8%
Tetrachlorometaxylene	38.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
 Page 1 of 1

Sample ID: LDW-SP-76-C-F
SAMPLE

Lab Sample ID: GU26C
 LIMS ID: 04-10122
 Matrix: Water
 Data Release Authorized: *AB*
 Reported: 11/02/04

QC Report No: GU26-Windward Environmental
 Project: LDW-SEEP SAMPLING
 Date Sampled: 06/29/04
 Date Received: 06/29/04

Date Extracted: 07/02/04
 Date Analyzed: 07/09/04 16:29
 Instrument/Analyst: ECD4/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes

Sample Amount: 3000 mL
 Final Extract Volume: 0.50 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U


Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	40.8%
Tetrachlorometaxylene	31.8%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
 Page 1 of 1

Sample ID: LDW-SP-76-C-U
SAMPLE

Lab Sample ID: GU26D
 LIMS ID: 04-10123
 Matrix: Water
 Data Release Authorized: 
 Reported: 11/02/04

QC Report No: GU26-Windward Environmental
 Project: LDW-SEEP SAMPLING

Date Sampled: 06/29/04
 Date Received: 06/29/04

Date Extracted: 07/02/04
 Date Analyzed: 07/09/04 17:03
 Instrument/Analyst: ECD4/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes

Sample Amount: 3000 mL
 Final Extract Volume: 0.50 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	44.8%
Tetrachlorometaxylene	34.0%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
 Page 1 of 1

Sample ID: LDW-SP-69-C-F
SAMPLE

Lab Sample ID: GU26E
 LIMS ID: 04-10124
 Matrix: Water
 Data Release Authorized: *AB*
 Reported: 11/02/04

QC Report No: GU26-Windward Environmental
 Project: LDW-SEEP SAMPLING

Date Sampled: 06/29/04
 Date Received: 06/29/04

Date Extracted: 07/02/04
 Date Analyzed: 07/09/04 17:37
 Instrument/Analyst: ECD4/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes

Sample Amount: 3000 mL
 Final Extract Volume: 0.50 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U


Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	37.8%
Tetrachlorometaxylene	38.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
 Page 1 of 1

Sample ID: LDW-SP-69-C-U
SAMPLE

Lab Sample ID: GU26F
 LIMS ID: 04-10125
 Matrix: Water
 Data Release Authorized:
 Reported: 11/02/04 

QC Report No: GU26-Windward Environmental
 Project: LDW-SEEP SAMPLING

Date Sampled: 06/29/04
 Date Received: 06/29/04

Date Extracted: 07/02/04
 Date Analyzed: 07/09/04 18:11
 Instrument/Analyst: ECD4/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes

Sample Amount: 3000 mL
 Final Extract Volume: 0.50 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	28.2%
Tetrachlorometaxylene	39.5%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
 Page 1 of 1

Sample ID: LCS-070204
LAB CONTROL

Lab Sample ID: LCS-070204
 LIMS ID: 04-10120
 Matrix: Water
 Data Release Authorized:
 Reported: 07/13/04

QC Report No: GU26-Windward Environmental
 Project: LDW-SEEP SAMPLING

Date Sampled: 06/29/04
 Date Received: 06/29/04

Date Extracted: 07/02/04
 Date Analyzed: 07/09/04 14:47
 Instrument/Analyst: ECD4/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes

Sample Amount: 3000 mL
 Final Extract Volume: 0.50 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Acid Cleanup: No

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	0.104	0.168	61.9%
Aroclor 1260	0.130	0.168	77.4%

PCB Surrogate Recovery

Decachlorobiphenyl	63.2%
Tetrachlorometaxylene	35.8%

Results reported in µg/L

4
PCB METHOD BLANK SUMMARY

BLANK NO.

GUMBW7/2


Lab Name: ANALYTICAL RESOURCES, INC	Client: WINDWARD ENVIRONMENTAL
ARI Job No.: GU26	Project: LDW-SEEP SAMPLING
Lab Sample ID: GU26MBW7/2	Lab File ID: 0709-08R
Matrix (soil/water) WATER	Date Extracted: 07/02/04
Date Analyzed (1): 07/09/04	Date Analyzed (2): 07/09/04
Time Analyzed (1): 1339	Time Analyzed (2): 1339
Instrument ID (1): ECD4	Instrument ID (2): ECD4
GC Column (1): RTX-CLP1 ID: 0.53 (mm)	GC Column (2): RTX-CLP2 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	Client SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
=====				
01	GUSBW7/2	GU26SBW2	07/09/04	07/09/04
02	LDW-SP-71-C-F	GU26A	07/09/04	07/09/04
03	LDW-SP-71-C-U	GU26B	07/09/04	07/09/04
04	LDW-SP-76-C-F	GU26C	07/09/04	07/09/04
05	LDW-SP-76-C-U	GU26D	07/09/04	07/09/04
06	LDW-SP-69-C-F	GU26E	07/09/04	07/09/04
07	LDW-SP-69-C-U	GU26F	07/09/04	07/09/04

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
 Page 1 of 1

Sample ID: MB-070204
 METHOD BLANK

Lab Sample ID: MB-070204
 LIMS ID: 04-10120
 Matrix: Water
 Data Release Authorized: 
 Reported: 07/13/04

QC Report No: GU26-Windward Environmental
 Project: LDW-SEEP SAMPLING

Date Sampled: NA
 Date Received: NA

Date Extracted: 07/02/04
 Date Analyzed: 07/09/04 13:39
 Instrument/Analyst: ECD4/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes

Sample Amount: 3000 mL
 Final Extract Volume: 0.50 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	72.5%
Tetrachlorometaxylene	32.0%

General Chemistry

000063

SAMPLE RESULTS-CONVENTIONALS
GU26-Windward Environmental



Matrix: Water
Data Release Authorized: *BA*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 06/29/04
Date Received: 06/29/04

Client ID: LDW-SP-71-C-F
ARI ID: 04-10120 GU26A

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070104#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU26-Windward Environmental



Matrix: Water
Data Release Authorized: *atp*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 06/29/04
Date Received: 06/29/04

Client ID: LDW-SP-71-C-U
ARI ID: 04-10121 GU26B

Analyte	Date	Method	Units	RL	Sample
Total Suspended Solids	06/30/04 063004#1	EPA 160.2	mg/L	1.0	11.3
Total Organic Carbon	07/01/04 070104#1	EPA 415.1	mg/L	1.50	2.16

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU26-Windward Environmental



Matrix: Water
Data Release Authorized: *ah*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 06/29/04
Date Received: 06/29/04

Client ID: LDW-SP-76-C-F
ARI ID: 04-10122 GU26C

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070104#1	EPA 415.1	mg/L	1.50	6.57

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU26-Windward Environmental



Matrix: Water
Data Release Authorized: *AA*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 06/29/04
Date Received: 06/29/04

Client ID: LDW-SP-76-C-U
ARI ID: 04-10123 GU26D

Analyte	Date	Method	Units	RL	Sample
Total Suspended Solids	06/30/04 063004#1	EPA 160.2	mg/L	1.0	5.2
Total Organic Carbon	07/01/04 070104#1	EPA 415.1	mg/L	1.50	7.78

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU26-Windward Environmental



Matrix: Water
Data Release Authorized: *AR*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 06/29/04
Date Received: 06/29/04

Client ID: LDW-SP-69-C-F
ARI ID: 04-10124 GU26E

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070104#1	EPA 415.1	mg/L	1.50	5.81

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU26-Windward Environmental



Matrix: Water
Data Release Authorized: *AM*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 06/29/04
Date Received: 06/29/04

Client ID: LDW-SP-69-C-U
ARI ID: 04-10125 GU26F

Analyte	Date	Method	Units	RL	Sample
Total Suspended Solids	06/30/04 063004#1	EPA 160.2	mg/L	2.5	25.5
Total Organic Carbon	07/01/04 070104#1	EPA 415.1	mg/L	1.50	8.55

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
GU26-Windward Environmental



Matrix: Water
Data Release Authorized: *att*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Suspended Solids	06/30/04	mg/L	< 1.0 U
Total Organic Carbon	07/01/04	mg/L	< 1.50 U
Dissolved Organic Carbon	07/09/04	mg/L	< 1.50 U

LAB CONTROL RESULTS-CONVENTIONALS
GU26-Windward Environmental



Matrix: Water
Data Release Authorized: *arf*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Suspended Solids	06/30/04	mg/L	49.2	50.0	98.4%

STANDARD REFERENCE RESULTS-CONVENTIONALS
GU26-Windward Environmental



Matrix: Water
Data Release Authorized: *aw*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon SPEX #25-161AS	07/01/04	mg/L	19.6	20.0	98.0%
Dissolved Organic Carbon ERA #0206-02-02	07/09/04	mg/L	21.6	20.0	108.0%

REPLICATE RESULTS-CONVENTIONALS
GU26-Windward Environmental



Matrix: Water
Data Release Authorized: *ASB*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 06/29/04
Date Received: 06/29/04

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: GU26B Client ID: LDW-SP-71-C-U					
Total Organic Carbon	07/01/04	mg/L	2.16	1.99	8.2%
ARI ID: GU26F Client ID: LDW-SP-69-C-U					
Total Suspended Solids	06/30/04	mg/L	25.5	24.5	4.0%

MS/MSD RESULTS-CONVENTIONALS
GU26-Windward Environmental



Matrix: Water
Data Release Authorized: *att*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 06/29/04
Date Received: 06/29/04

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: GU26B Client ID: LDW-SP-71-C-U						
Total Organic Carbon	07/01/04	mg/L	2.16	23.7	20.0	107.7%

Data Summary Package

**Prepared
for**

Windward Environmental

Project: LDW-SEEP SAMPLING

ARI Job Nos. GU45, GU59, GU76 and GU83

**Prepared
By**

Analytical Resources, Inc.

Volatiles

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water 5 mL

QC Report No: GU45

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
GU45A	LDW-SP-48-C-U	106%	104%	97.4%	104%	0
071004MB	Method Blank	109%	114%	107%	112%	0
GU45LCS	Lab Cntrl Sample	102%	115%	109%	108%	0
GU45C	LDW-SP-54-C-U	115%	116%	107%	106%	0
GU45C-MS	LDW-SP-54-C-U	99.1%	107%	103%	97.0%	0
GU45C-MSD	LDW-SP-54-C-U	102%	113%	107%	106%	0
GU45E	LDW-SP-82-C-U	103%	107%	98.7%	100%	0
GU45G	LDW-SP-82-C-FD-U	110%	113%	103%	105%	0
GU45I	Trip Blank	112%	115%	109%	112%	0

SW8260B

	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(74-133)	(74-142)
(TOL) = Toluene-d8	(77-131)	(84-129)
(BFB) = Bromofluorobenzene	(79-127)	(77-122)
(DCB) = 1,2-Dichlorobenzene-d4	(84-132)	(85-135)

Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-48-C-U

Page 1 of 2

SAMPLE

Lab Sample ID: GU45A

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10230

Project: LDW Seep Sampling

Matrix: Water

Data Release Authorized: *AS*

Date Sampled: 06/30/04

Reported: 07/15/04

Date Received: 06/30/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/10/04 17:21

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: LDW-SP-48-C-U

SAMPLE

Lab Sample ID: GU45A

LIMS ID: 04-10230

Matrix: Water

Date Analyzed: 07/10/04 17:21

QC Report No: GU45-Windward Environmental

Project: LDW Seep Sampling

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	104%
Bromofluorobenzene	97.4%
d4-1,2-Dichlorobenzene	104%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 2

Sample ID: LDW-SP-54-C-U
SAMPLE

Lab Sample ID: GU45C

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10232

Project: LDW Seep Sampling

Matrix: Water

Data Release Authorized:

Date Sampled: 06/30/04

Reported: 07/15/04

Date Received: 06/30/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/10/04 17:50

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	2.4
75-35-4	1,1-Dichloroethane	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	6.5
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	2.9
541-73-1	1,3-Dichlorobenzene	1.0	58
106-46-7	1,4-Dichlorobenzene	1.0	40
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

000018

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: LDW-SP-54-C-U

SAMPLE

Lab Sample ID: GU45C

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10232

Project: LDW Seep Sampling

Matrix: Water

Date Analyzed: 07/10/04 17:50

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	115%
d8-Toluene	116%
Bromofluorobenzene	107%
d4-1,2-Dichlorobenzene	106%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-54-C-U

Page 1 of 2

MATRIX SPIKE

Lab Sample ID: GU45C

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10232

Project: LDW Seep Sampling

Matrix: Water

Data Release Authorized: *[Signature]*

Date Sampled: 06/30/04

Reported: 07/15/04

Date Received: 06/30/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/10/04 18:18

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	---
74-83-9	Bromomethane	1.0	---
75-01-4	Vinyl Chloride	1.0	---
75-00-3	Chloroethane	1.0	---
75-09-2	Methylene Chloride	2.0	---
67-64-1	Acetone	5.0	---
75-15-0	Carbon Disulfide	1.0	---
75-35-4	1,1-Dichloroethene	1.0	---
75-34-3	1,1-Dichloroethane	1.0	---
156-60-5	trans-1,2-Dichloroethene	1.0	---
156-59-2	cis-1,2-Dichloroethene	1.0	---
67-66-3	Chloroform	1.0	---
107-06-2	1,2-Dichloroethane	1.0	---
78-93-3	2-Butanone	5.0	---
71-55-6	1,1,1-Trichloroethane	1.0	---
56-23-5	Carbon Tetrachloride	1.0	---
108-05-4	Vinyl Acetate	5.0	---
75-27-4	Bromodichloromethane	1.0	---
78-87-5	1,2-Dichloropropane	1.0	---
10061-01-5	cis-1,3-Dichloropropene	1.0	---
79-01-6	Trichloroethene	1.0	---
124-48-1	Dibromochloromethane	1.0	---
79-00-5	1,1,2-Trichloroethane	1.0	---
71-43-2	Benzene	1.0	---
10061-02-6	trans-1,3-Dichloropropene	1.0	---
110-75-8	2-Chloroethylvinylether	5.0	---
75-25-2	Bromoform	1.0	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	---
591-78-6	2-Hexanone	5.0	---
127-18-4	Tetrachloroethene	1.0	---
79-34-5	1,1,2,2-Tetrachloroethane	1.0	---
108-88-3	Toluene	1.0	---
108-90-7	Chlorobenzene	1.0	---
100-41-4	Ethylbenzene	1.0	---
100-42-5	Styrene	1.0	---
75-69-4	Trichlorofluoromethane	1.0	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	---
1330-20-7	m,p-Xylene	1.0	---
95-47-6	o-Xylene	1.0	---
95-50-1	1,2-Dichlorobenzene	1.0	---
541-73-1	1,3-Dichlorobenzene	1.0	---
106-46-7	1,4-Dichlorobenzene	1.0	---
107-02-8	Acrolein	50	---
74-88-4	Methyl Iodide	1.0	---
74-96-4	Bromoethane	2.0	---
107-13-1	Acrylonitrile	1.0	---
563-58-6	1,1-Dichloropropene	1.0	---
74-95-3	Dibromomethane	1.0	---
630-20-6	1,1,1,2-Tetrachloroethane	1.0	---
96-12-8	1,2-Dibromo-3-chloropropane	5.0	---

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B
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Sample ID: LDW-SP-54-C-U
MATRIX SPIKE

Lab Sample ID: GU45C
LIMS ID: 04-10232
Matrix: Water
Date Analyzed: 07/10/04 18:18

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	---
110-57-6	trans-1,4-Dichloro-2-butene	5.0	---
108-67-8	1,3,5-Trimethylbenzene	1.0	---
95-63-6	1,2,4-Trimethylbenzene	1.0	---
87-68-3	Hexachlorobutadiene	5.0	---
106-93-4	Ethylene Dibromide	1.0	---
74-97-5	Bromochloromethane	1.0	---
594-20-7	2,2-Dichloropropane	1.0	---
142-28-9	1,3-Dichloropropane	1.0	---
98-82-8	Isopropylbenzene	1.0	---
103-65-1	n-Propylbenzene	1.0	---
108-86-1	Bromobenzene	1.0	---
95-49-8	2-Chlorotoluene	1.0	---
106-43-4	4-Chlorotoluene	1.0	---
98-06-6	tert-Butylbenzene	1.0	---
135-98-8	sec-Butylbenzene	1.0	---
99-87-6	4-Isopropyltoluene	1.0	---
104-51-8	n-Butylbenzene	1.0	---
120-82-1	1,2,4-Trichlorobenzene	5.0	---
91-20-3	Naphthalene	5.0	---
87-61-6	1,2,3-Trichlorobenzene	5.0	---

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.1%
d8-Toluene	107%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	97.0%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-54-C-U

Page 1 of 2

MATRIX SPIKE DUPLICATE

Lab Sample ID: GU45C

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10232

Project: LDW Seep Sampling

Matrix: Water

Data Release Authorized:

Date Sampled: 06/30/04

Reported: 07/15/04

Date Received: 06/30/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/10/04 18:47

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	---
74-83-9	Bromomethane	1.0	---
75-01-4	Vinyl Chloride	1.0	---
75-00-3	Chloroethane	1.0	---
75-09-2	Methylene Chloride	2.0	---
67-64-1	Acetone	5.0	---
75-15-0	Carbon Disulfide	1.0	---
75-35-4	1,1-Dichloroethene	1.0	---
75-34-3	1,1-Dichloroethane	1.0	---
156-60-5	trans-1,2-Dichloroethene	1.0	---
156-59-2	cis-1,2-Dichloroethene	1.0	---
67-66-3	Chloroform	1.0	---
107-06-2	1,2-Dichloroethane	1.0	---
78-93-3	2-Butanone	5.0	---
71-55-6	1,1,1-Trichloroethane	1.0	---
56-23-5	Carbon Tetrachloride	1.0	---
108-05-4	Vinyl Acetate	5.0	---
75-27-4	Bromodichloromethane	1.0	---
78-87-5	1,2-Dichloropropane	1.0	---
10061-01-5	cis-1,3-Dichloropropene	1.0	---
79-01-6	Trichloroethene	1.0	---
124-48-1	Dibromochloromethane	1.0	---
79-00-5	1,1,2-Trichloroethane	1.0	---
71-43-2	Benzene	1.0	---
10061-02-6	trans-1,3-Dichloropropene	1.0	---
110-75-8	2-Chloroethylvinylether	5.0	---
75-25-2	Bromoform	1.0	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	---
591-78-6	2-Hexanone	5.0	---
127-18-4	Tetrachloroethene	1.0	---
79-34-5	1,1,2,2-Tetrachloroethane	1.0	---
108-88-3	Toluene	1.0	---
108-90-7	Chlorobenzene	1.0	---
100-41-4	Ethylbenzene	1.0	---
100-42-5	Styrene	1.0	---
75-69-4	Trichlorofluoromethane	1.0	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	---
1330-20-7	m,p-Xylene	1.0	---
95-47-6	o-Xylene	1.0	---
95-50-1	1,2-Dichlorobenzene	1.0	---
541-73-1	1,3-Dichlorobenzene	1.0	---
106-46-7	1,4-Dichlorobenzene	1.0	---
107-02-8	Acrolein	50	---
74-88-4	Methyl Iodide	1.0	---
74-96-4	Bromoethane	2.0	---
107-13-1	Acrylonitrile	1.0	---
563-58-6	1,1-Dichloropropene	1.0	---
74-95-3	Dibromomethane	1.0	---
630-20-6	1,1,1,2-Tetrachloroethane	1.0	---
96-12-8	1,2-Dibromo-3-chloropropane	5.0	---

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: LDW-SP-54-C-U

MATRIX SPIKE DUPLICATE

Lab Sample ID: GU45C

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10232

Project: LDW Seep Sampling

Matrix: Water

Date Analyzed: 07/10/04 18:47

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	---
110-57-6	trans-1,4-Dichloro-2-butene	5.0	---
108-67-8	1,3,5-Trimethylbenzene	1.0	---
95-63-6	1,2,4-Trimethylbenzene	1.0	---
87-68-3	Hexachlorobutadiene	5.0	---
106-93-4	Ethylene Dibromide	1.0	---
74-97-5	Bromochloromethane	1.0	---
594-20-7	2,2-Dichloropropane	1.0	---
142-28-9	1,3-Dichloropropane	1.0	---
98-82-8	Isopropylbenzene	1.0	---
103-65-1	n-Propylbenzene	1.0	---
108-86-1	Bromobenzene	1.0	---
95-49-8	2-Chlorotoluene	1.0	---
106-43-4	4-Chlorotoluene	1.0	---
98-06-6	tert-Butylbenzene	1.0	---
135-98-8	sec-Butylbenzene	1.0	---
99-87-6	4-Isopropyltoluene	1.0	---
104-51-8	n-Butylbenzene	1.0	---
120-82-1	1,2,4-Trichlorobenzene	5.0	---
91-20-3	Naphthalene	5.0	---
87-61-6	1,2,3-Trichlorobenzene	5.0	---

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	113%
Bromofluorobenzene	107%
d4-1,2-Dichlorobenzene	106%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 2

Sample ID: LDW-SP-82-C-U
SAMPLE

Lab Sample ID: GU45E

LIMS ID: 04-10234

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 07/15/04

QC Report No: GU45-Windward Environmental

Project: LDW Seep Sampling

Date Sampled: 06/30/04

Date Received: 06/30/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/10/04 19:15

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-82-C-U

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SAMPLE

Lab Sample ID: GU45E

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10234

Project: LDW Seep Sampling

Matrix: Water

Date Analyzed: 07/10/04 19:15

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
d8-Toluene	107%
Bromofluorobenzene	98.7%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Page 1 of 2


Sample ID: LDW-SP-82-C-FD-U

SAMPLE

Lab Sample ID: GU45G

LIMS ID: 04-10236

Matrix: Water

Data Release Authorized: 

Reported: 07/15/04

QC Report No: GU45-Windward Environmental

Project: LDW Seep Sampling

Date Sampled: 06/30/04

Date Received: 06/30/04

Instrument/Analyst: FINN3/LJR

Date Analyzed: 07/10/04 19:43

Sample Amount: 5.00 mL

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: LDW-SP-82-C-FD-U

SAMPLE

Lab Sample ID: GU45G

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10236

Project: LDW Seep Sampling

Matrix: Water

Date Analyzed: 07/10/04 19:43

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
d8-Toluene	113%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	105%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: Trip Blank

Page 1 of 2

SAMPLE

Lab Sample ID: GU45I

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10238

Project: LDW Seep Sampling

Matrix: Water

Data Release Authorized: *[Signature]*

Date Sampled:

Reported: 07/15/04

Date Received: 06/30/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/10/04 20:12

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: Trip Blank

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SAMPLE

Lab Sample ID: GU45I

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10238

Project: LDW Seep Sampling

Matrix: Water

Date Analyzed: 07/10/04 20:12

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	115%
Bromofluorobenzene	109%
d4-1,2-Dichlorobenzene	112%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-54-C-U

Page 1 of 2

MS/MSD


Lab Sample ID: GU45C

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10232

Project: LDW Seep Sampling

Matrix: Water

Data Release Authorized: 

Date Sampled: 06/30/04

Reported: 07/15/04

Date Received: 06/30/04

Instrument/Analyst MS: FINN3/LJR

Sample Amount MS: 5.00 mL

MSD: FINN3/LJR

MSD: 5.00 mL

Date Analyzed MS: 07/10/04 18:18

Purge Volume MS: 5.0 mL

MSD: 07/10/04 18:47

MSD: 5.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Chloromethane	< 1.0	39.8	50.0	79.6%	38.3	50.0	76.6%	3.8%
Bromomethane	< 1.0	37.0	50.0	74.0%	36.5	50.0	73.0%	1.4%
Vinyl Chloride	< 1.0	44.8	50.0	89.6%	43.1	50.0	86.2%	3.9%
Chloroethane	< 1.0	46.4	50.0	92.8%	45.8	50.0	91.6%	1.3%
Methylene Chloride	< 2.0	47.3	50.0	94.6%	45.7	50.0	91.4%	3.4%
Acetone	< 5.0	275	250	110%	288	250	115%	4.6%
Carbon Disulfide	2.4	58.6	50.0	112%	58.7	50.0	113%	0.2%
1,1-Dichloroethene	< 1.0	45.8	50.0	91.6%	45.9	50.0	91.8%	0.2%
1,1-Dichloroethane	< 1.0	51.2	50.0	102%	49.3	50.0	98.6%	3.8%
trans-1,2-Dichloroethene	< 1.0	48.0	50.0	96.0%	46.6	50.0	93.2%	3.0%
cis-1,2-Dichloroethene	< 1.0	51.8	50.0	104%	50.7	50.0	101%	2.1%
Chloroform	< 1.0	51.3	50.0	103%	51.3	50.0	103%	0.0%
1,2-Dichloroethane	< 1.0	49.7	50.0	99.4%	49.9	50.0	99.8%	0.4%
2-Butanone	< 5.0	285	250	114%	305	250	122%	6.8%
1,1,1-Trichloroethane	< 1.0	55.9	50.0	112%	56.6	50.0	113%	1.2%
Carbon Tetrachloride	< 1.0	49.2	50.0	98.4%	51.0	50.0	102%	3.6%
Vinyl Acetate	< 5.0	57.6	50.0	115%	60.4	50.0	121%	4.7%
Bromodichloromethane	< 1.0	54.5	50.0	109%	54.8	50.0	110%	0.5%
1,2-Dichloropropane	< 1.0	53.6	50.0	107%	54.9	50.0	110%	2.4%
cis-1,3-Dichloropropene	< 1.0	48.5	50.0	97.0%	49.7	50.0	99.4%	2.4%
Trichloroethene	< 1.0	49.7	50.0	99.4%	50.6	50.0	101%	1.8%
Dibromochloromethane	< 1.0	45.7	50.0	91.4%	47.3	50.0	94.6%	3.4%
1,1,2-Trichloroethane	< 1.0	53.3	50.0	107%	53.2	50.0	106%	0.2%
Benzene	< 1.0	54.0	50.0	108%	55.0	50.0	110%	1.8%
trans-1,3-Dichloropropene	< 1.0	45.5	50.0	91.0%	48.2	50.0	96.4%	5.8%
2-Chloroethylvinylether	< 5.0	< 5.0	50.0	NA	< 5.0	50.0	NA	NA
Bromoform	< 1.0	44.5	50.0	89.0%	46.8	50.0	93.6%	5.0%
4-Methyl-2-Pentanone (MIBK)	< 5.0	297	250	119%	321	250	128%	7.8%
2-Hexanone	< 5.0	264	250	106%	297	250	119%	11.8%
Tetrachloroethene	< 1.0	46.6	50.0	93.2%	49.5	50.0	99.0%	6.0%
1,1,2,2-Tetrachloroethane	< 1.0	56.7	50.0	113%	58.5	50.0	117%	3.1%
Toluene	< 1.0	53.5	50.0	107%	53.7	50.0	107%	0.4%
Chlorobenzene	6.5	57.9	50.0	103%	57.8	50.0	103%	0.2%
Ethylbenzene	< 1.0	50.9	50.0	102%	53.8	50.0	108%	5.5%
Styrene	< 1.0	24.3	50.0	48.6%	30.0	50.0	60.0%	21.0%
Trichlorofluoromethane	< 1.0	44.7	50.0	89.4%	44.4	50.0	88.8%	0.7%
1,1,2-Trichloro-1,2,2-trifl	< 2.0	41.6	50.0	83.2%	45.5	50.0	91.0%	9.0%
m,p-Xylene	< 1.0	102	100	102%	107	100	107%	4.8%
o-Xylene	< 1.0	46.6	50.0	93.2%	49.3	50.0	98.6%	5.6%
1,2-Dichlorobenzene	2.9	52.1	50.0	98.4%	55.0	50.0	104%	5.4%
1,3-Dichlorobenzene	58.3	119	50.0	121%	113	50.0	109%	5.2%
1,4-Dichlorobenzene	40.2	94.2	50.0	108%	90.2	50.0	100%	4.3%
Acrolein	< 50.0	166	250	66.4%	196	250	78.4%	16.6%
Methyl Iodide	< 1.0	50.7	50.0	101%	51.5	50.0	103%	1.6%
Bromoethane	< 2.0	46.8	50.0	93.6%	48.1	50.0	96.2%	2.7%
Acrylonitrile	< 1.0	45.0	50.0	90.0%	47.5	50.0	95.0%	5.4%
1,1-Dichloropropene	< 1.0	50.7	50.0	101%	52.8	50.0	106%	4.1%
Dibromomethane	< 1.0	51.9	50.0	104%	53.4	50.0	107%	2.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Page 2 of 2

Sample ID: LDW-SP-54-C-U

MS/MSD

Lab Sample ID: GU45C

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10232

Project: LDW Seep Sampling

Matrix: Water

Date Analyzed MS: 07/10/04 18:18

Purge Volume MS: 5.0 mL

MSD: 07/10/04 18:47

MSD: 5.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
1,1,1,2-Tetrachloroethane	< 1.0	48.5	50.0	97.0%	50.0	50.0	100%	3.0%
1,2-Dibromo-3-chloropropane	< 5.0	53.1	50.0	106%	58.0	50.0	116%	8.8%
1,2,3-Trichloropropane	< 3.0	56.3	50.0	113%	59.1	50.0	118%	4.9%
trans-1,4-Dichloro-2-butene	< 5.0	43.0	50.0	86.0%	45.6	50.0	91.2%	5.9%
1,3,5-Trimethylbenzene	< 1.0	33.9	50.0	67.8%	39.6	50.0	79.2%	15.5%
1,2,4-Trimethylbenzene	< 1.0	33.9	50.0	67.8%	39.2	50.0	78.4%	14.5%
Hexachlorobutadiene	< 5.0	24.8	50.0	49.6%	36.1	50.0	72.2%	37.1%
Ethylene Dibromide	< 1.0	49.1	50.0	98.2%	50.0	50.0	100%	1.8%
Bromochloromethane	< 1.0	51.0	50.0	102%	52.4	50.0	105%	2.7%
2,2-Dichloropropane	< 1.0	57.6	50.0	115%	58.7	50.0	117%	1.9%
1,3-Dichloropropane	< 1.0	53.1	50.0	106%	53.5	50.0	107%	0.8%
Isopropylbenzene	< 1.0	52.2	50.0	104%	57.8	50.0	116%	10.2%
n-Propylbenzene	< 1.0	33.0	50.0	66.0%	40.5	50.0	81.0%	20.4%
Bromobenzene	< 1.0	51.9	50.0	104%	53.8	50.0	108%	3.6%
2-Chlorotoluene	< 1.0	48.3	50.0	96.6%	52.3	50.0	105%	8.0%
4-Chlorotoluene	< 1.0	52.5	50.0	105%	54.8	50.0	110%	4.3%
tert-Butylbenzene	< 1.0	43.6	50.0	87.2%	51.6	50.0	103%	16.8%
sec-Butylbenzene	< 1.0	43.2	50.0	86.4%	52.1	50.0	104%	18.7%
4-Isopropyltoluene	< 1.0	29.6	50.0	59.2%	37.1	50.0	74.2%	22.5%
n-Butylbenzene	< 1.0	39.6	50.0	79.2%	49.2	50.0	98.4%	21.6%
1,2,4-Trichlorobenzene	< 5.0	35.9	50.0	71.8%	43.2	50.0	86.4%	18.5%
Naphthalene	< 5.0	43.8	50.0	87.6%	51.7	50.0	103%	16.5%
1,2,3-Trichlorobenzene	< 5.0	41.0	50.0	82.0%	50.2	50.0	100%	20.2%

Results reported in $\mu\text{g/L}$

NA-No recovery due to high concentration of analyte in original sample, or calculated negative recovery, or undetected spike.

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-071004

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LAB CONTROL

Lab Sample ID: LCS-071004

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10232

Project: LDW Seep Sampling

Matrix: Water

Data Release Authorized: *[Signature]*

Date Sampled: NA

Reported: 07/15/04

Date Received: NA

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/10/04 13:59

Purge Volume: 5.0 mL

Analyte	Lab Control	Spike Added	Recovery
Chloromethane	45.9	50.0	91.8%
Bromomethane	49.0	50.0	98.0%
Vinyl Chloride	46.4	50.0	92.8%
Chloroethane	46.8	50.0	93.6%
Methylene Chloride	45.5	50.0	91.0%
Acetone	202	250	80.8%
Carbon Disulfide	54.0	50.0	108%
1,1-Dichloroethene	47.5	50.0	95.0%
1,1-Dichloroethane	47.5	50.0	95.0%
trans-1,2-Dichloroethene	46.0	50.0	92.0%
cis-1,2-Dichloroethene	50.3	50.0	101%
Chloroform	49.3	50.0	98.6%
1,2-Dichloroethane	47.5	50.0	95.0%
2-Butanone	215	250	86.0%
1,1,1-Trichloroethane	52.1	50.0	104%
Carbon Tetrachloride	50.8	50.0	102%
Vinyl Acetate	51.6	50.0	103%
Bromodichloromethane	50.6	50.0	101%
1,2-Dichloropropane	50.7	50.0	101%
cis-1,3-Dichloropropene	44.6	50.0	89.2%
Trichloroethene	49.4	50.0	98.8%
Dibromochloromethane	42.4	50.0	84.8%
1,1,2-Trichloroethane	49.1	50.0	98.2%
Benzene	52.9	50.0	106%
trans-1,3-Dichloropropene	43.0	50.0	86.0%
2-Chloroethylvinylether	44.9	50.0	89.8%
Bromoform	37.8	50.0	75.6%
4-Methyl-2-Pentanone (MIBK)	243	250	97.2%
2-Hexanone	168	250	67.2%
Tetrachloroethene	49.8	50.0	99.6%
1,1,2,2-Tetrachloroethane	46.5	50.0	93.0%
Toluene	52.8	50.0	106%
Chlorobenzene	50.2	50.0	100%
Ethylbenzene	51.3	50.0	103%
Styrene	44.6	50.0	89.2%
Trichlorofluoromethane	47.1	50.0	94.2%
1,1,2-Trichloro-1,2,2-trifluoroethane	52.6	50.0	105%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-071004

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LAB CONTROL

Lab Sample ID: LCS-071004

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10232

Project: LDW Seep Sampling

Matrix: Water

Date Analyzed: 07/10/04 13:59

Purge Volume: 5.0 mL

Analyte	Lab Control	Spike Added	Recovery
m,p-Xylene	106	100	106%
o-Xylene	47.2	50.0	94.4%
1,2-Dichlorobenzene	50.5	50.0	101%
1,3-Dichlorobenzene	51.3	50.0	103%
1,4-Dichlorobenzene	49.1	50.0	98.2%
Acrolein	225	250	90.0%
Methyl Iodide	50.9	50.0	102%
Bromoethane	51.4	50.0	103%
Acrylonitrile	42.5	50.0	85.0%
1,1-Dichloropropene	50.7	50.0	101%
Dibromomethane	47.6	50.0	95.2%
1,1,1,2-Tetrachloroethane	47.7	50.0	95.4%
1,2-Dibromo-3-chloropropane	34.2	50.0	68.4%
1,2,3-Trichloropropane	45.5	50.0	91.0%
trans-1,4-Dichloro-2-butene	51.3	50.0	103%
1,3,5-Trimethylbenzene	40.9	50.0	81.8%
1,2,4-Trimethylbenzene	40.7	50.0	81.4%
Hexachlorobutadiene	48.3	50.0	96.6%
Ethylene Dibromide	43.5	50.0	87.0%
Bromochloromethane	49.3	50.0	98.6%
2,2-Dichloropropane	52.5	50.0	105%
1,3-Dichloropropane	48.1	50.0	96.2%
Isopropylbenzene	57.3	50.0	115%
n-Propylbenzene	42.6	50.0	85.2%
Bromobenzene	51.3	50.0	103%
2-Chlorotoluene	53.9	50.0	108%
4-Chlorotoluene	52.7	50.0	105%
tert-Butylbenzene	55.2	50.0	110%
sec-Butylbenzene	56.4	50.0	113%
4-Isopropyltoluene	41.7	50.0	83.4%
n-Butylbenzene	56.1	50.0	112%
1,2,4-Trichlorobenzene	43.5	50.0	87.0%
Naphthalene	36.5	50.0	73.0%
1,2,3-Trichlorobenzene	49.7	50.0	99.4%

Results reported in $\mu\text{g/L}$

LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	115%
Bromofluorobenzene	109%
d4-1,2-Dichlorobenzene	108%

4A
VOLATILE METHOD BLANK SUMMARY

BLANK NO.

MB 0710

Lab Name: ANALYTICAL RESOURCES, INC

Client: WINDWARD ENVIRONMENTAL

Lab Code: GU45

Project: LDW-SEEP SAMPLING

SDG No.: GU45

Lab File ID: MB0710

Lab Sample ID: MB 0710

Date Analyzed: 07/10/04

Time Analyzed: 1500

GC Column: RTX502.2 ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: FINN3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS 0710	LCS 0710	LCS0710	1359
02	LCSD 0710	LCSD 0710	LCD0710	1431
03	LDW-SP-71-C-	GU26B	GU26B	1528
04	LDW-SP-76-C-	GU26D	GU26D	1556
05	LDW-SP-69-C-	GU26F	GU26F	1625
06	TRIP BLANK	GU26G	GU26G	1653
07	LDW-SP-48-C-	GU45A	GU45A	1721
08	LDW-SP-54-C-	GU45C	GU45C	1750
09	LDW-SP-54-C-	GU45CMS	GU45CMS	1818
10	LDW-SP-54-C-	GU45CMSD	GU45CMD	1847
11	LDW-SP-82-C-	GU45E	GU45E	1915
12	LDW-SP-82-C-	GU45G	GU45G	1943
13	TRIP BLANK	GU45I	GU45I	2012
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COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-071004

Page 1 of 2

METHOD BLANK

Lab Sample ID: MB-071004

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10232

Project: LDW Seep Sampling

Matrix: Water

Data Release Authorized: *[Signature]*

Date Sampled: NA

Reported: 07/15/04

Date Received: NA

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/10/04 15:00

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

U00035

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: MB-071004

METHOD BLANK

Lab Sample ID: MB-071004

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10232

Project: LDW Seep Sampling

Matrix: Water

Date Analyzed: 07/10/04 15:00

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	109%
d8-Toluene	114%
Bromofluorobenzene	107%
d4-1,2-Dichlorobenzene	112%

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water 5 mL

QC Report No: GU59

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
GU59E	LDW-SP-12-C-U	119%	122%	112%	117%	0
GU59F	LDW-SP-20-C-U	120%	123%	113%	116%	0
071404MB	Method Blank	111%	119%	111%	113%	0
GU59LCS	Lab Cntrl Sample	110%	122%	121%	114%	0
GU59LCSD	Lab Cntrl Sample Dp	109%	121%	120%	114%	0
GU59G	LDW-SP-41-C-U	120%	122%	114%	116%	0
GU59G-MS	LDW-SP-41-C-U	114%	123%	122%	113%	0
GU59G-MSD	LDW-SP-41-C-U	109%	121%	120%	114%	0
GU59J	LDW-SP-39-C-U	110%	119%	112%	115%	0
GU59K	LDW-SP-80-C-U	115%	121%	113%	115%	0
GU59L	TRIP BLANK	118%	119%	113%	114%	0

SW8260B

	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(74-133)	(74-142)
(TOL) = Toluene-d8	(77-131)	(84-129)
(BFB) = Bromofluorobenzene	(79-127)	(77-122)
(DCB) = 1,2-Dichlorobenzene-d4	(84-132)	(85-135)

Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water 5 mL

QC Report No: GU76

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
071404MB	Method Blank	111%	119%	111%	113%	0
GU76LCS	Lab Cntrl Sample	110%	122%	121%	114%	0
GU76LCSD	Lab Cntrl Sample Dp	109%	121%	120%	114%	0
GU76B	LDW-SP-61-C-U	116%	121%	112%	116%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(74-133)	(74-142)
(TOL) = Toluene-d8	(77-131)	(84-129)
(BFB) = Bromofluorobenzene	(79-127)	(77-122)
(DCB) = 1,2-Dichlorobenzene-d4	(84-132)	(85-135)

Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water 5 mL

QC Report No: GU83

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
071404MB	Method Blank	111%	119%	111%	113%	0
GU83LCS	Lab Cntrl Sample	110%	122%	121%	114%	0
GU83LCSD	Lab Cntrl Sample Dp	109%	121%	120%	114%	0
GU83A	LDW-SP-75-C-U	118%	121%	114%	117%	0
GU83E	LDW-SP-64-C-U	116%	122%	113%	116%	0

SW8260B

	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(74-133)	(74-142)
(TOL) = Toluene-d8	(77-131)	(84-129)
(BFB) = Bromofluorobenzene	(79-127)	(77-122)
(DCB) = 1,2-Dichlorobenzene-d4	(84-132)	(85-135)

Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-12-C-U

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SAMPLE

Lab Sample ID: GU59E

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10341

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: *AB*

Date Sampled: 07/01/04

Reported: 07/19/04

Date Received: 07/01/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/14/04 15:35

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: LDW-SP-12-C-U

SAMPLE

Lab Sample ID: GU59E

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10341

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Analyzed: 07/14/04 15:35

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	119%
d8-Toluene	122%
Bromofluorobenzene	112%
d4-1,2-Dichlorobenzene	117%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-20-C-U

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SAMPLE

Lab Sample ID: GU59F

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10342

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: *[Signature]*

Date Sampled: 07/01/04

Reported: 07/19/04

Date Received: 07/01/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/14/04 16:03

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: LDW-SP-20-C-U

SAMPLE

Lab Sample ID: GU59F

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10342

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Analyzed: 07/14/04 16:03

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	120%
d8-Toluene	123%
Bromofluorobenzene	113%
d4-1,2-Dichlorobenzene	116%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 2

Sample ID: LDW-SP-41-C-U
SAMPLE

Lab Sample ID: GU59G

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10343

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized:

Date Sampled: 07/01/04

Reported: 07/19/04

Date Received: 07/01/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/14/04 16:32

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-41-C-U

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SAMPLE

Lab Sample ID: GU59G

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10343

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Analyzed: 07/14/04 16:32

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	120%
d8-Toluene	122%
Bromofluorobenzene	114%
d4-1,2-Dichlorobenzene	116%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Page 1 of 2

Sample ID: LDW-SP-41-C-U

MATRIX SPIKE

Lab Sample ID: GU59G

LIMS ID: 04-10343

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 07/19/04

QC Report No: GU59-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04

Date Received: 07/01/04

Instrument/Analyst: FINN3/LJR

Date Analyzed: 07/14/04 17:00

Sample Amount: 5.00 mL

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	---
74-83-9	Bromomethane	1.0	---
75-01-4	Vinyl Chloride	1.0	---
75-00-3	Chloroethane	1.0	---
75-09-2	Methylene Chloride	2.0	---
67-64-1	Acetone	5.0	---
75-15-0	Carbon Disulfide	1.0	---
75-35-4	1,1-Dichloroethene	1.0	---
75-34-3	1,1-Dichloroethane	1.0	---
156-60-5	trans-1,2-Dichloroethene	1.0	---
156-59-2	cis-1,2-Dichloroethene	1.0	---
67-66-3	Chloroform	1.0	---
107-06-2	1,2-Dichloroethane	1.0	---
78-93-3	2-Butanone	5.0	---
71-55-6	1,1,1-Trichloroethane	1.0	---
56-23-5	Carbon Tetrachloride	1.0	---
108-05-4	Vinyl Acetate	5.0	---
75-27-4	Bromodichloromethane	1.0	---
78-87-5	1,2-Dichloropropane	1.0	---
10061-01-5	cis-1,3-Dichloropropene	1.0	---
79-01-6	Trichloroethene	1.0	---
124-48-1	Dibromochloromethane	1.0	---
79-00-5	1,1,2-Trichloroethane	1.0	---
71-43-2	Benzene	1.0	---
10061-02-6	trans-1,3-Dichloropropene	1.0	---
110-75-8	2-Chloroethylvinylether	5.0	---
75-25-2	Bromoform	1.0	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	---
591-78-6	2-Hexanone	5.0	---
127-18-4	Tetrachloroethene	1.0	---
79-34-5	1,1,2,2-Tetrachloroethane	1.0	---
108-88-3	Toluene	1.0	---
108-90-7	Chlorobenzene	1.0	---
100-41-4	Ethylbenzene	1.0	---
100-42-5	Styrene	1.0	---
75-69-4	Trichlorofluoromethane	1.0	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	---
1330-20-7	m,p-Xylene	1.0	---
95-47-6	o-Xylene	1.0	---
95-50-1	1,2-Dichlorobenzene	1.0	---
541-73-1	1,3-Dichlorobenzene	1.0	---
106-46-7	1,4-Dichlorobenzene	1.0	---
107-02-8	Acrolein	50	---
74-88-4	Methyl Iodide	1.0	---
74-96-4	Bromoethane	2.0	---
107-13-1	Acrylonitrile	1.0	---
563-58-6	1,1-Dichloropropene	1.0	---
74-95-3	Dibromomethane	1.0	---
630-20-6	1,1,1,2-Tetrachloroethane	1.0	---
96-12-8	1,2-Dibromo-3-chloropropane	5.0	---

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: LDW-SP-41-C-U

MATRIX SPIKE

Lab Sample ID: GU59G

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10343

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Analyzed: 07/14/04 17:00

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	---
110-57-6	trans-1,4-Dichloro-2-butene	5.0	---
108-67-8	1,3,5-Trimethylbenzene	1.0	---
95-63-6	1,2,4-Trimethylbenzene	1.0	---
87-68-3	Hexachlorobutadiene	5.0	---
106-93-4	Ethylene Dibromide	1.0	---
74-97-5	Bromochloromethane	1.0	---
594-20-7	2,2-Dichloropropane	1.0	---
142-28-9	1,3-Dichloropropane	1.0	---
98-82-8	Isopropylbenzene	1.0	---
103-65-1	n-Propylbenzene	1.0	---
108-86-1	Bromobenzene	1.0	---
95-49-8	2-Chlorotoluene	1.0	---
106-43-4	4-Chlorotoluene	1.0	---
98-06-6	tert-Butylbenzene	1.0	---
135-98-8	sec-Butylbenzene	1.0	---
99-87-6	4-Isopropyltoluene	1.0	---
104-51-8	n-Butylbenzene	1.0	---
120-82-1	1,2,4-Trichlorobenzene	5.0	---
91-20-3	Naphthalene	5.0	---
87-61-6	1,2,3-Trichlorobenzene	5.0	---

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	123%
Bromofluorobenzene	122%
d4-1,2-Dichlorobenzene	113%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-41-C-U

Page 1 of 2

MATRIX SPIKE DUPLICATE


Lab Sample ID: GU59G

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10343

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: 

Date Sampled: 07/01/04

Reported: 07/19/04

Date Received: 07/01/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/14/04 17:29

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	---
74-83-9	Bromomethane	1.0	---
75-01-4	Vinyl Chloride	1.0	---
75-00-3	Chloroethane	1.0	---
75-09-2	Methylene Chloride	2.0	---
67-64-1	Acetone	5.0	---
75-15-0	Carbon Disulfide	1.0	---
75-35-4	1,1-Dichloroethene	1.0	---
75-34-3	1,1-Dichloroethane	1.0	---
156-60-5	trans-1,2-Dichloroethene	1.0	---
156-59-2	cis-1,2-Dichloroethene	1.0	---
67-66-3	Chloroform	1.0	---
107-06-2	1,2-Dichloroethane	1.0	---
78-93-3	2-Butanone	5.0	---
71-55-6	1,1,1-Trichloroethane	1.0	---
56-23-5	Carbon Tetrachloride	1.0	---
108-05-4	Vinyl Acetate	5.0	---
75-27-4	Bromodichloromethane	1.0	---
78-87-5	1,2-Dichloropropane	1.0	---
10061-01-5	cis-1,3-Dichloropropene	1.0	---
79-01-6	Trichloroethene	1.0	---
124-48-1	Dibromochloromethane	1.0	---
79-00-5	1,1,2-Trichloroethane	1.0	---
71-43-2	Benzene	1.0	---
10061-02-6	trans-1,3-Dichloropropene	1.0	---
110-75-8	2-Chloroethylvinylether	5.0	---
75-25-2	Bromoform	1.0	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	---
591-78-6	2-Hexanone	5.0	---
127-18-4	Tetrachloroethene	1.0	---
79-34-5	1,1,2,2-Tetrachloroethane	1.0	---
108-88-3	Toluene	1.0	---
108-90-7	Chlorobenzene	1.0	---
100-41-4	Ethylbenzene	1.0	---
100-42-5	Styrene	1.0	---
75-69-4	Trichlorofluoromethane	1.0	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	---
1330-20-7	m,p-Xylene	1.0	---
95-47-6	o-Xylene	1.0	---
95-50-1	1,2-Dichlorobenzene	1.0	---
541-73-1	1,3-Dichlorobenzene	1.0	---
106-46-7	1,4-Dichlorobenzene	1.0	---
107-02-8	Acrolein	5.0	---
74-88-4	Methyl Iodide	1.0	---
74-96-4	Bromoethane	2.0	---
107-13-1	Acrylonitrile	1.0	---
563-58-6	1,1-Dichloropropene	1.0	---
74-95-3	Dibromomethane	1.0	---
630-20-6	1,1,1,2-Tetrachloroethane	1.0	---
96-12-8	1,2-Dibromo-3-chloropropane	5.0	---

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B
Page 2 of 2

Sample ID: LDW-SP-41-C-U
MATRIX SPIKE DUPLICATE

Lab Sample ID: GU59G
LIMS ID: 04-10343
Matrix: Water
Date Analyzed: 07/14/04 17:29

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	---
110-57-6	trans-1,4-Dichloro-2-butene	5.0	---
108-67-8	1,3,5-Trimethylbenzene	1.0	---
95-63-6	1,2,4-Trimethylbenzene	1.0	---
87-68-3	Hexachlorobutadiene	5.0	---
106-93-4	Ethylene Dibromide	1.0	---
74-97-5	Bromochloromethane	1.0	---
594-20-7	2,2-Dichloropropane	1.0	---
142-28-9	1,3-Dichloropropane	1.0	---
98-82-8	Isopropylbenzene	1.0	---
103-65-1	n-Propylbenzene	1.0	---
108-86-1	Bromobenzene	1.0	---
95-49-8	2-Chlorotoluene	1.0	---
106-43-4	4-Chlorotoluene	1.0	---
98-06-6	tert-Butylbenzene	1.0	---
135-98-8	sec-Butylbenzene	1.0	---
99-87-6	4-Isopropyltoluene	1.0	---
104-51-8	n-Butylbenzene	1.0	---
120-82-1	1,2,4-Trichlorobenzene	5.0	---
91-20-3	Naphthalene	5.0	---
87-61-6	1,2,3-Trichlorobenzene	5.0	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	109%
d8-Toluene	121%
Bromofluorobenzene	120%
d4-1,2-Dichlorobenzene	114%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 2

Sample ID: LDW-SP-39-C-U
SAMPLE

Lab Sample ID: GU59J

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10346

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: 

Date Sampled: 07/01/04

Reported: 07/19/04

Date Received: 07/01/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/14/04 17:57

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-39-C-U

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SAMPLE

Lab Sample ID: GU59J

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10346

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Analyzed: 07/14/04 17:57

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
d8-Toluene	119%
Bromofluorobenzene	112%
d4-1,2-Dichlorobenzene	115%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-80-C-U

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SAMPLE

Lab Sample ID: GU59K

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10347

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: *[Signature]*

Date Sampled: 07/01/04

Reported: 07/19/04

Date Received: 07/01/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/14/04 18:25

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	1.1
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-80-C-U

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SAMPLE

Lab Sample ID: GU59K

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10347

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Analyzed: 07/14/04 18:25

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	115%
d8-Toluene	121%
Bromofluorobenzene	113%
d4-1,2-Dichlorobenzene	115%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: TRIP BLANK

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SAMPLE

Lab Sample ID: GU59L

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10348

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized:

Date Sampled:

Reported: 07/19/04

Date Received: 07/01/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/14/04 18:53

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: TRIP BLANK

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SAMPLE

Lab Sample ID: GU59L

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10348

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Analyzed: 07/14/04 18:53

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	118%
d8-Toluene	119%
Bromofluorobenzene	113%
d4-1,2-Dichlorobenzene	114%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-61-C-U

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SAMPLE

Lab Sample ID: GU76B

QC Report No: GU76-Windward Environmental

LIMS ID: 04-10431

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: *[Signature]*

Date Sampled: 07/02/04

Reported: 07/19/04

Date Received: 07/02/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/14/04 19:22

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: LDW-SP-61-C-U

SAMPLE

Lab Sample ID: GU76B

QC Report No: GU76-Windward Environmental

LIMS ID: 04-10431

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Analyzed: 07/14/04 19:22

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	121%
Bromofluorobenzene	112%
d4-1,2-Dichlorobenzene	116%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-75-C-U

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SAMPLE

Lab Sample ID: GU83A

QC Report No: GU83-Windward Environmental

LIMS ID: 04-10461

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: *[Signature]*

Date Sampled: 07/03/04

Reported: 07/19/04

Date Received: 07/03/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/14/04 19:50

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-75-C-U

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SAMPLE

Lab Sample ID: GU83A

QC Report No: GU83-Windward Environmental

LIMS ID: 04-10461

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Analyzed: 07/14/04 19:50

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	118%
d8-Toluene	121%
Bromofluorobenzene	114%
d4-1,2-Dichlorobenzene	117%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-64-C-U

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SAMPLE

Lab Sample ID: GU83E

QC Report No: GU83-Windward Environmental

LIMS ID: 04-10465

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized:

Date Sampled: 07/02/04

Reported: 07/19/04

Date Received: 07/03/04

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/14/04 20:19

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: LDW-SP-64-C-U

SAMPLE

Lab Sample ID: GU83E

QC Report No: GU83-Windward Environmental

LIMS ID: 04-10465

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Analyzed: 07/14/04 20:19

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	122%
Bromofluorobenzene	113%
d4-1,2-Dichlorobenzene	116%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-41-C-U

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MS/MSD

Lab Sample ID: GU59G

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10343

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: *[Signature]*

Date Sampled: 07/01/04

Reported: 07/19/04

Date Received: 07/01/04

Instrument/Analyst MS: FINN3/LJR

Sample Amount MS: 5.00 mL

MSD: FINN3/LJR

MSD: 5.00 mL

Date Analyzed MS: 07/14/04 17:00

Purge Volume MS: 5.0 mL

MSD: 07/14/04 17:29

MSD: 5.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Chloromethane	< 1.0	44.4	50.0	88.8%	43.7	50.0	87.4%	1.6%
Bromomethane	< 1.0	29.8	50.0	59.6%	35.3	50.0	70.6%	16.9%
Vinyl Chloride	< 1.0	48.9	50.0	97.8%	47.3	50.0	94.6%	3.3%
Chloroethane	< 1.0	50.2	50.0	100%	49.1	50.0	98.2%	2.2%
Methylene Chloride	< 2.0	50.9	50.0	102%	49.9	50.0	99.8%	2.0%
Acetone	< 5.0	313	250	125%	287	250	115%	8.7%
Carbon Disulfide	< 1.0	41.4	50.0	82.8%	43.7	50.0	87.4%	5.4%
1,1-Dichloroethene	< 1.0	50.1	50.0	100%	48.6	50.0	97.2%	3.0%
1,1-Dichloroethane	< 1.0	52.3	50.0	105%	50.2	50.0	100%	4.1%
trans-1,2-Dichloroethene	< 1.0	50.9	50.0	102%	49.6	50.0	99.2%	2.6%
cis-1,2-Dichloroethene	< 1.0	51.7	50.0	103%	51.4	50.0	103%	0.6%
Chloroform	< 1.0	52.3	50.0	105%	51.3	50.0	103%	1.9%
1,2-Dichloroethane	< 1.0	52.3	50.0	105%	51.8	50.0	104%	1.0%
2-Butanone	< 5.0	302	250	121%	278	250	111%	8.3%
1,1,1-Trichloroethane	< 1.0	52.3	50.0	105%	52.6	50.0	105%	0.6%
Carbon Tetrachloride	< 1.0	52.9	50.0	106%	52.9	50.0	106%	0.0%
Vinyl Acetate	< 5.0	49.6	50.0	99.2%	52.0	50.0	104%	4.7%
Bromodichloromethane	< 1.0	55.1	50.0	110%	54.6	50.0	109%	0.9%
1,2-Dichloropropane	< 1.0	52.2	50.0	104%	53.0	50.0	106%	1.5%
cis-1,3-Dichloropropene	< 1.0	47.1	50.0	94.2%	47.1	50.0	94.2%	0.0%
Trichloroethene	< 1.0	51.6	50.0	103%	52.1	50.0	104%	1.0%
Dibromochloromethane	< 1.0	48.4	50.0	96.8%	48.0	50.0	96.0%	0.8%
1,1,2-Trichloroethane	< 1.0	55.0	50.0	110%	55.0	50.0	110%	0.0%
Benzene	< 1.0	54.4	50.0	109%	54.8	50.0	110%	0.7%
trans-1,3-Dichloropropene	< 1.0	45.2	50.0	90.4%	44.0	50.0	88.0%	2.7%
2-Chloroethylvinylether	< 5.0	< 5.0	50.0	NA	< 5.0	50.0	NA	NA
Bromoform	< 1.0	45.6	50.0	91.2%	46.3	50.0	92.6%	1.5%
4-Methyl-2-Pentanone (MIBK)	< 5.0	297	250	119%	280	250	112%	5.9%
2-Hexanone	< 5.0	285	250	114%	268	250	107%	6.1%
Tetrachloroethene	< 1.0	51.4	50.0	103%	53.3	50.0	107%	3.6%
1,1,2,2-Tetrachloroethane	< 1.0	53.7	50.0	107%	56.9	50.0	114%	5.8%
Toluene	< 1.0	55.0	50.0	110%	55.4	50.0	111%	0.7%
Chlorobenzene	< 1.0	53.5	50.0	107%	53.1	50.0	106%	0.8%
Ethylbenzene	< 1.0	56.4	50.0	113%	57.2	50.0	114%	1.4%
Styrene	< 1.0	45.8	50.0	91.6%	32.7	50.0	65.4%	33.4%
Trichlorofluoromethane	< 1.0	51.2	50.0	102%	49.3	50.0	98.6%	3.8%
1,1,2-Trichloro-1,2,2-trifl	< 2.0	40.0	50.0	80.0%	46.1	50.0	92.2%	14.2%
m,p-Xylene	< 1.0	109	100	109%	110	100	110%	0.9%
o-Xylene	< 1.0	55.3	50.0	111%	55.8	50.0	112%	0.9%
1,2-Dichlorobenzene	< 1.0	50.2	50.0	100%	51.9	50.0	104%	3.3%
1,3-Dichlorobenzene	< 1.0	49.8	50.0	99.6%	51.2	50.0	102%	2.8%
1,4-Dichlorobenzene	< 1.0	47.9	50.0	95.8%	49.0	50.0	98.0%	2.3%
Acrolein	< 50.0	278	250	111%	257	250	103%	7.9%
Methyl Iodide	< 1.0	35.4	50.0	70.8%	44.1	50.0	88.2%	21.9%
Bromoethane	< 2.0	41.2	50.0	82.4%	46.8	50.0	93.6%	12.7%
Acrylonitrile	< 1.0	53.3	50.0	107%	54.2	50.0	108%	1.7%
1,1-Dichloropropene	< 1.0	51.4	50.0	103%	51.7	50.0	103%	0.6%
Dibromomethane	< 1.0	55.0	50.0	110%	54.2	50.0	108%	1.5%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LDW-SP-41-C-U

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MS/MSD

Lab Sample ID: GU59G

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10343

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Analyzed MS: 07/14/04 17:00

Purge Volume MS: 5.0 mL

MSD: 07/14/04 17:29

MSD: 5.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
1,1,1,2-Tetrachloroethane	< 1.0	56.3	50.0	113%	56.5	50.0	113%	0.4%
1,2-Dibromo-3-chloropropane	< 5.0	45.7	50.0	91.4%	48.6	50.0	97.2%	6.2%
1,2,3-Trichloropropane	< 3.0	55.6	50.0	111%	56.9	50.0	114%	2.3%
trans-1,4-Dichloro-2-butene	< 5.0	46.3	50.0	92.6%	49.9	50.0	99.8%	7.5%
1,3,5-Trimethylbenzene	< 1.0	54.5	50.0	109%	56.1	50.0	112%	2.9%
1,2,4-Trimethylbenzene	< 1.0	50.8	50.0	102%	48.1	50.0	96.2%	5.5%
Hexachlorobutadiene	< 5.0	48.7	50.0	97.4%	51.0	50.0	102%	4.6%
Ethylene Dibromide	< 1.0	49.3	50.0	98.6%	49.8	50.0	99.6%	1.0%
Bromochloromethane	< 1.0	50.8	50.0	102%	52.0	50.0	104%	2.3%
2,2-Dichloropropane	< 1.0	50.0	50.0	100%	49.2	50.0	98.4%	1.6%
1,3-Dichloropropane	< 1.0	55.1	50.0	110%	55.3	50.0	111%	0.4%
Isopropylbenzene	< 1.0	55.5	50.0	111%	58.3	50.0	117%	4.9%
n-Propylbenzene	< 1.0	52.8	50.0	106%	55.4	50.0	111%	4.8%
Bromobenzene	< 1.0	51.0	50.0	102%	54.1	50.0	108%	5.9%
2-Chlorotoluene	< 1.0	53.7	50.0	107%	53.1	50.0	106%	1.1%
4-Chlorotoluene	< 1.0	52.4	50.0	105%	55.3	50.0	111%	5.4%
tert-Butylbenzene	< 1.0	53.7	50.0	107%	54.6	50.0	109%	1.7%
sec-Butylbenzene	< 1.0	54.2	50.0	108%	56.4	50.0	113%	4.0%
4-Isopropyltoluene	< 1.0	53.1	50.0	106%	55.4	50.0	111%	4.2%
n-Butylbenzene	< 1.0	50.4	50.0	101%	54.0	50.0	108%	6.9%
1,2,4-Trichlorobenzene	< 5.0	48.1	50.0	96.2%	51.2	50.0	102%	6.2%
Naphthalene	< 5.0	44.9	50.0	89.8%	47.6	50.0	95.2%	5.8%
1,2,3-Trichlorobenzene	< 5.0	49.3	50.0	98.6%	52.3	50.0	105%	5.9%

Results reported in $\mu\text{g/L}$

NA-No recovery due to high concentration of analyte in original sample, or calculated negative recovery, or undetected spike.

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-071404

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LCS/LCSD

Lab Sample ID: LCS-071404


QC Report No: GU59-Windward Environmental

LIMS ID: 04-10343

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Sampled: NA

Data Release Authorized: 

Date Received: NA

Reported: 07/19/04

Instrument/Analyst LCS: FINN3/LJR

Sample Amount LCS: 5.00 mL

LCSD: FINN3/LJR

LCSD: 5.00 mL

Date Analyzed LCS: 07/14/04 10:46

Purge Volume LCS: 5.0 mL

LCSD: 07/14/04 11:14

LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	43.9	50.0	87.8%	43.2	50.0	86.4%	1.6%
Bromomethane	32.6	50.0	65.2%	34.2	50.0	68.4%	4.8%
Vinyl Chloride	46.4	50.0	92.8%	46.2	50.0	92.4%	0.4%
Chloroethane	48.0	50.0	96.0%	48.5	50.0	97.0%	1.0%
Methylene Chloride	47.1	50.0	94.2%	48.2	50.0	96.4%	2.3%
Acetone	284	250	114%	274	250	110%	3.6%
Carbon Disulfide	49.7	50.0	99.4%	47.2	50.0	94.4%	5.2%
1,1-Dichloroethene	47.9	50.0	95.8%	48.1	50.0	96.2%	0.4%
1,1-Dichloroethane	48.6	50.0	97.2%	50.0	50.0	100%	2.8%
trans-1,2-Dichloroethene	48.2	50.0	96.4%	48.5	50.0	97.0%	0.6%
cis-1,2-Dichloroethene	50.1	50.0	100%	52.7	50.0	105%	5.1%
Chloroform	50.5	50.0	101%	52.4	50.0	105%	3.7%
1,2-Dichloroethane	50.3	50.0	101%	52.0	50.0	104%	3.3%
2-Butanone	282	250	113%	275	250	110%	2.5%
1,1,1-Trichloroethane	53.3	50.0	107%	55.7	50.0	111%	4.4%
Carbon Tetrachloride	52.2	50.0	104%	53.5	50.0	107%	2.5%
Vinyl Acetate	58.9	50.0	118%	53.8	50.0	108%	9.1%
Bromodichloromethane	53.4	50.0	107%	55.3	50.0	111%	3.5%
1,2-Dichloropropane	51.8	50.0	104%	54.1	50.0	108%	4.3%
cis-1,3-Dichloropropene	46.6	50.0	93.2%	48.3	50.0	96.6%	3.6%
Trichloroethene	50.4	50.0	101%	51.5	50.0	103%	2.2%
Dibromochloromethane	46.7	50.0	93.4%	48.3	50.0	96.6%	3.4%
1,1,2-Trichloroethane	51.4	50.0	103%	53.0	50.0	106%	3.1%
Benzene	52.5	50.0	105%	55.1	50.0	110%	4.8%
trans-1,3-Dichloropropene	45.8	50.0	91.6%	47.3	50.0	94.6%	3.2%
2-Chloroethylvinylether	47.0	50.0	94.0%	44.0	50.0	88.0%	6.6%
Bromoform	44.4	50.0	88.8%	46.0	50.0	92.0%	3.5%
4-Methyl-2-Pentanone (MIBK)	283	250	113%	275	250	110%	2.9%
2-Hexanone	259	250	104%	254	250	102%	1.9%
Tetrachloroethene	50.2	50.0	100%	52.4	50.0	105%	4.3%
1,1,2,2-Tetrachloroethane	53.0	50.0	106%	53.6	50.0	107%	1.1%
Toluene	52.8	50.0	106%	54.5	50.0	109%	3.2%
Chlorobenzene	51.2	50.0	102%	53.1	50.0	106%	3.6%
Ethylbenzene	54.7	50.0	109%	57.1	50.0	114%	4.3%
Styrene	56.3	50.0	113%	58.4	50.0	117%	3.7%
Trichlorofluoromethane	48.1	50.0	96.2%	48.3	50.0	96.6%	0.4%
1,1,2-Trichloro-1,2,2-trifl	49.8	50.0	99.6%	45.9	50.0	91.8%	8.2%
m,p-Xylene	106	100	106%	111	100	111%	4.6%
o-Xylene	54.9	50.0	110%	57.2	50.0	114%	4.1%
1,2-Dichlorobenzene	50.3	50.0	101%	52.5	50.0	105%	4.3%
1,3-Dichlorobenzene	50.8	50.0	102%	52.9	50.0	106%	4.1%
1,4-Dichlorobenzene	48.1	50.0	96.2%	50.7	50.0	101%	5.3%
Acrolein	283	250	113%	266	250	106%	6.2%
Methyl Iodide	43.6	50.0	87.2%	42.3	50.0	84.6%	3.0%
Bromoethane	49.1	50.0	98.2%	45.6	50.0	91.2%	7.4%
Acrylonitrile	52.7	50.0	105%	49.5	50.0	99.0%	6.3%
1,1-Dichloropropene	50.8	50.0	102%	52.5	50.0	105%	3.3%
Dibromomethane	51.4	50.0	103%	53.5	50.0	107%	4.0%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-071404

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LCS/LCSD

Lab Sample ID: LCS-071404

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10343

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Analyzed: 07/14/04 10:46

Purge Volume: 5.0 mL

LCSD: 07/14/04 11:14

LCSD: 5.0 mL

Analyte	Spike			LCSD			RPD
	LCS	Added-LCS	Recovery	LCS	Added-LCSD	Recovery	
1,1,1,2-Tetrachloroethane	54.7	50.0	109%	57.2	50.0	114%	4.5%
1,2-Dibromo-3-chloropropane	47.0	50.0	94.0%	46.9	50.0	93.8%	0.2%
1,2,3-Trichloropropane	54.0	50.0	108%	55.9	50.0	112%	3.5%
trans-1,4-Dichloro-2-butene	51.1	50.0	102%	48.2	50.0	96.4%	5.8%
1,3,5-Trimethylbenzene	56.6	50.0	113%	59.1	50.0	118%	4.3%
1,2,4-Trimethylbenzene	56.3	50.0	113%	58.5	50.0	117%	3.8%
Hexachlorobutadiene	50.0	50.0	100%	52.2	50.0	104%	4.3%
Ethylene Dibromide	46.6	50.0	93.2%	48.5	50.0	97.0%	4.0%
Bromochloromethane	50.3	50.0	101%	51.4	50.0	103%	2.2%
2,2-Dichloropropane	55.1	50.0	110%	56.4	50.0	113%	2.3%
1,3-Dichloropropane	52.4	50.0	105%	53.9	50.0	108%	2.8%
Isopropylbenzene	58.0	50.0	116%	60.5	50.0	121%	4.2%
n-Propylbenzene	55.3	50.0	111%	57.0	50.0	114%	3.0%
Bromobenzene	52.1	50.0	104%	53.8	50.0	108%	3.2%
2-Chlorotoluene	51.9	50.0	104%	54.6	50.0	109%	5.1%
4-Chlorotoluene	57.7	50.0	115%	56.8	50.0	114%	1.6%
tert-Butylbenzene	55.9	50.0	112%	57.5	50.0	115%	2.8%
sec-Butylbenzene	57.1	50.0	114%	59.3	50.0	119%	3.8%
4-Isopropyltoluene	56.9	50.0	114%	59.3	50.0	119%	4.1%
n-Butylbenzene	54.8	50.0	110%	58.0	50.0	116%	5.7%
1,2,4-Trichlorobenzene	51.6	50.0	103%	53.9	50.0	108%	4.4%
Naphthalene	45.7	50.0	91.4%	47.9	50.0	95.8%	4.7%
1,2,3-Trichlorobenzene	51.4	50.0	103%	53.6	50.0	107%	4.2%

Results reported in $\mu\text{g/L}$

RPD calculated using sample concentrations per SW846.

LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	110%	109%
d8-Toluene	122%	121%
Bromofluorobenzene	121%	120%
d4-1,2-Dichlorobenzene	114%	114%

4A
VOLATILE METHOD BLANK SUMMARY

BLANK NO.

MB0714

Lab Name: ANALYTICAL RESOURCES, INC Client: WINDWARD ENVIRONMENTAL
 Lab Code: GU59 Project: LDW-SEEP SAMPLING SDG No.: GU59
 Lab File ID: MB0714 Lab Sample ID: MB0714
 Date Analyzed: 07/14/04 Time Analyzed: 1143
 GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N
 Instrument ID: FINN3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS0714	LCS0714	LCS0714	1046
02	LCSD0714	LCSD0714	LCD0714	1114
03	LDW-SP-12-C-	GU59E	GU59E	1535
04	LDW-SP-20-C-	GU59F	GU59F	1603
05	LDW-SP-41-C-	GU59G	GU59G	1632
06	LDW-SP-41-C-	GU59G	GU59GMS	1700
07	LDW-SP-41-C-	GU59G	GU59GMD	1729
08	LDW-SP-39-C-	GU59J	GU59J	1757
09	LDW-SP-80-C-	GU59K	GU59K	1825
10	TRIP BLANK	GU59L	GU59L	1853
11	LDW-SP-61-C-	GU76B	GU76B	1922
12	LDW-SP-75-C-	GU83A	GU83A	1950
13	LDW-SP-64-C-	GU83E	GU83E	2019
14				
15				
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29				
30				

COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-071404

Page 1 of 2

METHOD BLANK


Lab Sample ID: MB-071404

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10343

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: 

Date Sampled: NA

Reported: 07/19/04

Date Received: NA

Instrument/Analyst: FINN3/LJR

Sample Amount: 5.00 mL

Date Analyzed: 07/14/04 11:43

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethane	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
107-02-8	Acrolein	50	< 50 U
74-88-4	Methyl Iodide	1.0	< 1.0 U
74-96-4	Bromoethane	2.0	< 2.0 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	1.0	< 1.0 U
74-95-3	Dibromomethane	1.0	< 1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0 U

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ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method 8260B

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Sample ID: MB-071404

METHOD BLANK

Lab Sample ID: MB-071404

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10343

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Analyzed: 07/14/04 11:43

CAS Number	Analyte	RL	Result
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0 U
87-68-3	Hexachlorobutadiene	5.0	< 5.0 U
106-93-4	Ethylene Dibromide	1.0	< 1.0 U
74-97-5	Bromochloromethane	1.0	< 1.0 U
594-20-7	2,2-Dichloropropane	1.0	< 1.0 U
142-28-9	1,3-Dichloropropane	1.0	< 1.0 U
98-82-8	Isopropylbenzene	1.0	< 1.0 U
103-65-1	n-Propylbenzene	1.0	< 1.0 U
108-86-1	Bromobenzene	1.0	< 1.0 U
95-49-8	2-Chlorotoluene	1.0	< 1.0 U
106-43-4	4-Chlorotoluene	1.0	< 1.0 U
98-06-6	tert-Butylbenzene	1.0	< 1.0 U
135-98-8	sec-Butylbenzene	1.0	< 1.0 U
99-87-6	4-Isopropyltoluene	1.0	< 1.0 U
104-51-8	n-Butylbenzene	1.0	< 1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0 U
91-20-3	Naphthalene	5.0	< 5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	111%
d8-Toluene	119%
Bromofluorobenzene	111%
d4-1,2-Dichlorobenzene	113%

Semivolatiles

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	DXN TOT	OUT
MB-070704	74.1%	71.1%	96.9%	52.7%	66.1%	66.7%	90.9%	71.6%	56.1%	0
LCS-070704	74.6%	74.9%	96.1%	59.1%	73.9%	67.9%	91.1%	74.3%	63.6%	0
LDW-SP-48-C-U	68.3%	69.8%	92.8%	54.4%	62.0%	62.5%	87.7%	65.3%	55.2%	0
LDW-SP-48-C-F	72.2%	74.2%	98.3%	61.5%	66.4%	67.3%	94.3%	71.1%	60.0%	0
LDW-SP-54-C-U	68.8%	76.2%	93.5%	54.8%	63.6%	59.8%	103%	67.5%	47.5%	0
LDW-SP-54-C-F	75.6%	76.5%	94.1%	58.1%	67.2%	65.7%	104%	72.7%	52.0%	0
LDW-SP-82-C-U	68.4%	67.6%	95.3%	52.8%	59.8%	60.5%	94.9%	64.3%	51.4%	0
LDW-SP-82-C-F	74.4%	72.4%	95.0%	56.0%	67.2%	66.9%	95.1%	72.1%	60.9%	0
LDW-SP-82-C-FD-U	71.1%	68.8%	93.0%	54.0%	63.0%	64.3%	89.5%	67.5%	55.6%	0
LDW-SP-82-C-FD-F	81.2%	77.6%	93.1%	58.6%	74.4%	73.5%	99.0%	78.7%	64.8%	0

LCS/MB LIMITS QC LIMITS

(NBZ) = d5-Nitrobenzene	(44-107)	(38-111)
(FBP) = 2-Fluorobiphenyl	(43-99)	(30-109)
(TPH) = d14-p-Terphenyl	(44-123)	(37-113)
(DCB) = d4-1,2-Dichlorobenzene	(36-88)	(35-88)
(PHL) = d5-Phenol	(47-101)	(42-98)
(2FP) = 2-Fluorophenol	(44-102)	(40-99)
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)
(2CP) = d4-2-Chlorophenol	(50-102)	(47-101)
(DXN) = d8-1,4-Dioxane	(30-160)	(30-160)

Prep Method: SW3520C
Log Number Range: 04-10230 to 04-10237

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU76-Windward Environmental
Project: LDW-SEEP SAMPLING

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	DXN	TOT	OUT
MB-070704	74.1%	71.1%	96.9%	52.7%	66.1%	66.7%	90.9%	71.6%	56.1%	0	
LCS-070704	74.6%	74.9%	96.1%	59.1%	73.9%	67.9%	91.1%	74.3%	63.6%	0	
LDW-SP-62-C-F	81.0%	78.4%	98.0%	62.1%	73.5%	74.2%	99.8%	78.9%	65.2%	0	
LDW-SP-61-C-U	75.0%	67.2%	91.8%	48.6%	61.7%	64.6%	92.4%	72.5%	55.8%	0	
LDW-SP-61-C-F	72.0%	71.0%	89.6%	50.1%	61.8%	62.8%	94.9%	68.3%	54.0%	0	
LDW-SP-61-C-F DL	D	D	D	D	D	D	D	D	D	0	

LCS/MB LIMITS QC LIMITS

(NBZ) = d5-Nitrobenzene	(44-107)	(38-111)
(FBP) = 2-Fluorobiphenyl	(43-99)	(30-109)
(TPH) = d14-p-Terphenyl	(44-123)	(37-113)
(DCB) = d4-1,2-Dichlorobenzene	(36-88)	(35-88)
(PHL) = d5-Phenol	(47-101)	(42-98)
(2FP) = 2-Fluorophenol	(44-102)	(40-99)
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)
(2CP) = d4-2-Chlorophenol	(50-102)	(47-101)
(DXN) = d8-1,4-Dioxane	(30-160)	(30-160)

Prep Method: SW3520C
Log Number Range: 04-10430 to 04-10432

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	DXN	TOT	OUT
MB-070704	74.1%	71.1%	96.9%	52.7%	66.1%	66.7%	90.9%	71.6%	56.1%	0	
LCS-070704	74.6%	74.9%	96.1%	59.1%	73.9%	67.9%	91.1%	74.3%	63.6%	0	
LDW-SP-75-C-U	64.8%	58.0%	88.7%	42.0%	57.3%	58.8%	86.5%	63.6%	51.6%	0	
LDW-SP-75-C-U MS	79.0%	72.3%	97.3%	57.4%	76.6%	70.9%	91.6%	78.7%	62.3%	0	
LDW-SP-75-C-U MSD	68.4%	63.2%	90.5%	46.4%	66.7%	61.8%	84.6%	66.3%	54.6%	0	
LDW-SP-75-C-F	72.5%	69.6%	88.5%	52.0%	67.7%	66.7%	88.8%	71.7%	61.3%	0	
LDW-SP-75-C-F MS	76.1%	72.2%	95.3%	55.4%	72.2%	68.6%	95.1%	72.8%	55.4%	0	
LDW-SP-75-C-F MSD	79.0%	73.3%	88.9%	55.8%	77.0%	73.7%	90.1%	77.8%	63.9%	0	
LDW-SP-64-RB-S-U	76.7%	69.9%	94.0%	56.4%	66.5%	68.2%	88.2%	72.0%	58.5%	0	
LDW-SP-64-RB-MP-U	79.4%	73.9%	97.9%	60.1%	62.6%	69.4%	93.8%	78.2%	52.8%	0	
LDW-SP-64-C-U	73.7%	68.9%	90.0%	50.5%	67.9%	68.9%	92.0%	72.2%	61.7%	0	

LCS/MB LIMITS QC LIMITS

(NBZ) = d5-Nitrobenzene	(44-107)	(38-111)
(FBP) = 2-Fluorobiphenyl	(43-99)	(30-109)
(TPH) = d14-p-Terphenyl	(44-123)	(37-113)
(DCB) = d4-1,2-Dichlorobenzene	(36-88)	(35-88)
(PHL) = d5-Phenol	(47-101)	(42-98)
(2FP) = 2-Fluorophenol	(44-102)	(40-99)
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)
(2CP) = d4-2-Chlorophenol	(50-102)	(47-101)
(DXN) = d8-1,4-Dioxane	(30-160)	(30-160)


Prep Method: SW3520C
Log Number Range: 04-10461 to 04-10465

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 2

Sample ID: LDW-SP-48-C-U
SAMPLE

Lab Sample ID: GU45A
LIMS ID: 04-10230
Matrix: Water

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

Data Release Authorized: 
Reported: 07/15/04

Date Sampled: 06/30/04
Date Received: 06/30/04

Date Extracted: 07/07/04
Date Analyzed: 07/14/04 12:16
Instrument/Analyst: NT6/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

Lab Sample ID: GU45A
 LIMS ID: 04-10230
 Matrix: Water
 Date Analyzed: 07/14/04 12:16

QC Report No: GU45-Windward Environmental
 Project: LDW Seep Sampling

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	3.0 B
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery


d5-Nitrobenzene	68.3%	2-Fluorobiphenyl	69.8%
d14-p-Terphenyl	92.8%	d4-1,2-Dichlorobenzene	54.4%
d5-Phenol	62.0%	2-Fluorophenol	62.5%
2,4,6-Tribromophenol	87.7%	d4-2-Chlorophenol	65.3%
d8-1,4-Dioxane	55.2%		

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-48-C-F
SAMPLE

Lab Sample ID: GU45B
LIMS ID: 04-10231
Matrix: Water

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

Data Release Authorized: 
Reported: 07/15/04

Date Sampled: 06/30/04
Date Received: 06/30/04

Date Extracted: 07/07/04
Date Analyzed: 07/14/04 12:48
Instrument/Analyst: NT6/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-48-C-F
SAMPLE

Lab Sample ID: GU45B
LIMS ID: 04-10231
Matrix: Water
Date Analyzed: 07/14/04 12:48

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	2.2 B
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.2%	2-Fluorobiphenyl	74.2%
d14-p-Terphenyl	98.3%	d4-1,2-Dichlorobenzene	61.5%
d5-Phenol	66.4%	2-Fluorophenol	67.3%
2,4,6-Tribromophenol	94.3%	d4-2-Chlorophenol	71.1%
d8-1,4-Dioxane	60.0%		

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-54-C-U
SAMPLE

Lab Sample ID: GU45C

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

LIMS ID: 04-10232

Matrix: Water

Data Release Authorized:

Date Sampled: 06/30/04

Reported: 07/15/04

Date Received: 06/30/04

Date Extracted: 07/07/04

Sample Amount: 500 mL

Date Analyzed: 07/14/04 13:19

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	3.7
106-46-7	1,4-Dichlorobenzene	1.0	4.0
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

Lab Sample ID: GU45C
 LIMS ID: 04-10232
 Matrix: Water
 Date Analyzed: 07/14/04 13:19

QC Report No: GU45-Windward Environmental
 Project: LDW Seep Sampling

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	1.0 B
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)


Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.8%	2-Fluorobiphenyl	76.2%
d14-p-Terphenyl	93.5%	d4-1,2-Dichlorobenzene	54.8%
d5-Phenol	63.6%	2-Fluorophenol	59.8%
2,4,6-Tribromophenol	103%	d4-2-Chlorophenol	67.5%
d8-1,4-Dioxane	47.5%		

Sample ID: LDW-SP-54-C-F
SAMPLE

Lab Sample ID: GU45D
LIMS ID: 04-10233
Matrix: Water

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

Data Release Authorized: 
Reported: 07/15/04

Date Sampled: 06/30/04
Date Received: 06/30/04

Date Extracted: 07/07/04
Date Analyzed: 07/14/04 13:51
Instrument/Analyst: NT6/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	3.6
106-46-7	1,4-Dichlorobenzene	1.0	3.9
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

Lab Sample ID: GU45D
 LIMS ID: 04-10233
 Matrix: Water
 Date Analyzed: 07/14/04 13:51

QC Report No: GU45-Windward Environmental
 Project: LDW Seep Sampling

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery


d5-Nitrobenzene	75.6%	2-Fluorobiphenyl	76.5%
d14-p-Terphenyl	94.1%	d4-1,2-Dichlorobenzene	58.1%
d5-Phenol	67.2%	2-Fluorophenol	65.7%
2,4,6-Tribromophenol	104%	d4-2-Chlorophenol	72.7%
d8-1,4-Dioxane	52.0%		

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-82-C-U
SAMPLE

Lab Sample ID: GU45E
LIMS ID: 04-10234
Matrix: Water

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

Data Release Authorized: 
Reported: 07/15/04

Date Sampled: 06/30/04
Date Received: 06/30/04

Date Extracted: 07/07/04
Date Analyzed: 07/14/04 14:23
Instrument/Analyst: NT6/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-82-C-U
SAMPLE

Lab Sample ID: GU45E
LIMS ID: 04-10234
Matrix: Water
Date Analyzed: 07/14/04 14:23

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.4%	2-Fluorobiphenyl	67.6%
d14-p-Terphenyl	95.3%	d4-1,2-Dichlorobenzene	52.8%
d5-Phenol	59.8%	2-Fluorophenol	60.5%
2,4,6-Tribromophenol	94.9%	d4-2-Chlorophenol	64.3%
d8-1,4-Dioxane	51.4%		

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-82-C-F
SAMPLE

Lab Sample ID: GU45F
LIMS ID: 04-10235
Matrix: Water
Data Release Authorized:
Reported: 07/15/04

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling
Date Sampled: 06/30/04
Date Received: 06/30/04

Date Extracted: 07/07/04
Date Analyzed: 07/14/04 15:27
Instrument/Analyst: NT6/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

Lab Sample ID: GU45F
 LIMS ID: 04-10235
 Matrix: Water
 Date Analyzed: 07/14/04 15:27

QC Report No: GU45-Windward Environmental
 Project: LDW Seep Sampling

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo (a) anthracene	1.0	< 1.0 U
117-81-7	bis (2-Ethylhexyl) phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo (b) fluoranthene	1.0	< 1.0 U
207-08-9	Benzo (k) fluoranthene	1.0	< 1.0 U
50-32-8	Benzo (a) pyrene	1.0	< 1.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	< 1.0 U
53-70-3	Dibenz (a,h) anthracene	1.0	< 1.0 U
191-24-2	Benzo (g,h,i) perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	74.4%	2-Fluorobiphenyl	72.4%
d14-p-Terphenyl	95.0%	d4-1,2-Dichlorobenzene	56.0%
d5-Phenol	67.2%	2-Fluorophenol	66.9%
2,4,6-Tribromophenol	95.1%	d4-2-Chlorophenol	72.1%
d8-1,4-Dioxane	60.9%		

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-82-C-FD-U
SAMPLE

Lab Sample ID: GU45G

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

LIMS ID: 04-10236

Matrix: Water

Data Release Authorized: 

Date Sampled: 06/30/04

Reported: 07/15/04

Date Received: 06/30/04

Date Extracted: 07/07/04

Sample Amount: 500 mL

Date Analyzed: 07/14/04 15:58

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

Lab Sample ID: GU45G
 LIMS ID: 04-10236
 Matrix: Water
 Date Analyzed: 07/14/04 15:58

QC Report No: GU45-Windward Environmental
 Project: LDW Seep Sampling

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U


Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	71.1%	2-Fluorobiphenyl	68.8%
d14-p-Terphenyl	93.0%	d4-1,2-Dichlorobenzene	54.0%
d5-Phenol	63.0%	2-Fluorophenol	64.3%
2,4,6-Tribromophenol	89.5%	d4-2-Chlorophenol	67.5%
d8-1,4-Dioxane	55.6%		

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-82-C-FD-F
SAMPLE

Lab Sample ID: GU45H
LIMS ID: 04-10237
Matrix: Water
Data Release Authorized: 
Reported: 07/15/04

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling
Date Sampled: 06/30/04
Date Received: 06/30/04

Date Extracted: 07/07/04
Date Analyzed: 07/14/04 16:30
Instrument/Analyst: NT6/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-82-C-FD-F
SAMPLE

Lab Sample ID: GU45H
LIMS ID: 04-10237
Matrix: Water
Date Analyzed: 07/14/04 16:30

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	3.0
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	4.4 B
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	81.2%	2-Fluorobiphenyl	77.6%
d14-p-Terphenyl	93.1%	d4-1,2-Dichlorobenzene	58.6%
d5-Phenol	74.4%	2-Fluorophenol	73.5%
2,4,6-Tribromophenol	99.0%	d4-2-Chlorophenol	78.7%
d8-1,4-Dioxane	64.8%		

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Semivolatiles by SW8270C GC/MS
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
Sample ID: LDW-SP-62-C-F
SAMPLE

Lab Sample ID: GU76A

QC Report No: GU76-Windward Environmental
Project: LDW-SEEP SAMPLING

LIMS ID: 04-10430

Matrix: Water

Data Release Authorized: 

Date Sampled: 07/02/04

Reported: 07/15/04

Date Received: 07/02/04

Date Extracted: 07/07/04

Sample Amount: 500 mL

Date Analyzed: 07/14/04 17:02

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

Lab Sample ID: GU76A
 LIMS ID: 04-10430
 Matrix: Water
 Date Analyzed: 07/14/04 17:02

QC Report No: GU76-Windward Environmental
 Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	1.0 B
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	81.0%	2-Fluorobiphenyl	78.4%
d14-p-Terphenyl	98.0%	d4-1,2-Dichlorobenzene	62.1%
d5-Phenol	73.5%	2-Fluorophenol	74.2%
2,4,6-Tribromophenol	99.8%	d4-2-Chlorophenol	78.9%
d8-1,4-Dioxane	65.2%		


Sample ID: LDW-SP-61-C-U
SAMPLE

Lab Sample ID: GU76B

QC Report No: GU76-Windward Environmental
Project: LDW-SEEP SAMPLING

LIMS ID: 04-10431

Matrix: Water

Data Release Authorized: 

Reported: 07/15/04

Date Sampled: 07/02/04

Date Received: 07/02/04

Date Extracted: 07/07/04

Sample Amount: 500 mL

Date Analyzed: 07/14/04 17:34

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

Lab Sample ID: GU76B
 LIMS ID: 04-10431
 Matrix: Water
 Date Analyzed: 07/14/04 17:34

QC Report No: GU76-Windward Environmental
 Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo (a) anthracene	1.0	< 1.0 U
117-81-7	bis (2-Ethylhexyl) phthalate	1.0	3.1 B
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo (b) fluoranthene	1.0	< 1.0 U
207-08-9	Benzo (k) fluoranthene	1.0	< 1.0 U
50-32-8	Benzo (a) pyrene	1.0	< 1.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	< 1.0 U
53-70-3	Dibenz (a,h) anthracene	1.0	< 1.0 U
191-24-2	Benzo (g,h,i) perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	75.0%	2-Fluorobiphenyl	67.2%
d14-p-Terphenyl	91.8%	d4-1,2-Dichlorobenzene	48.6%
d5-Phenol	61.7%	2-Fluorophenol	64.6%
2,4,6-Tribromophenol	92.4%	d4-2-Chlorophenol	72.5%
d8-1,4-Dioxane	55.8%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-61-C-F
SAMPLE

Lab Sample ID: GU76C

QC Report No: GU76-Windward Environmental
Project: LDW-SEEP SAMPLING

LIMS ID: 04-10432

Matrix: Water

Data Release Authorized

Date Sampled: 07/02/04

Reported: 07/15/04

Date Received: 07/02/04

Date Extracted: 07/07/04

Sample Amount: 500 mL

Date Analyzed: 07/14/04 14:55

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

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ORGANICS ANALYSIS DATA SHEET
 Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-61-C-F
 SAMPLE

Lab Sample ID: GU76C
 LIMS ID: 04-10432
 Matrix: Water
 Date Analyzed: 07/14/04 14:55

QC Report No: GU76-Windward Environmental
 Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	3.8
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo (a) anthracene	1.0	< 1.0 U
117-81-7	bis (2-Ethylhexyl) phthalate	1.0	2,300 E
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo (b) fluoranthene	1.0	< 1.0 U
207-08-9	Benzo (k) fluoranthene	1.0	< 1.0 U
50-32-8	Benzo (a) pyrene	1.0	< 1.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	< 1.0 U
53-70-3	Dibenz (a,h) anthracene	1.0	< 1.0 U
191-24-2	Benzo (g,h,i) perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.0%	2-Fluorobiphenyl	71.0%
d14-p-Terphenyl	89.6%	d4-1,2-Dichlorobenzene	50.1%
d5-Phenol	61.8%	2-Fluorophenol	62.8%
2,4,6-Tribromophenol	94.9%	d4-2-Chlorophenol	68.3%
d8-1,4-Dioxane	54.0%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-61-C-F
DILUTION


Lab Sample ID: GU76C

QC Report No: GU76-Windward Environmental

LIMS ID: 04-10432

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: 

Date Sampled: 07/02/04

Reported: 07/15/04

Date Received: 07/02/04

Date Extracted: 07/07/04

Sample Amount: 500 mL

Date Analyzed: 07/15/04 13:19

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 100

CAS Number	Analyte	RL	Result
108-95-2	Phenol	200	< 200 U
111-44-4	Bis-(2-Chloroethyl) Ether	200	< 200 U
95-57-8	2-Chlorophenol	100	< 100 U
541-73-1	1,3-Dichlorobenzene	100	< 100 U
106-46-7	1,4-Dichlorobenzene	100	< 100 U
100-51-6	Benzyl Alcohol	500	< 500 U
95-50-1	1,2-Dichlorobenzene	100	< 100 U
95-48-7	2-Methylphenol	100	< 100 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	100	< 100 U
106-44-5	4-Methylphenol	100	< 100 U
621-64-7	N-Nitroso-Di-N-Propylamine	200	< 200 U
67-72-1	Hexachloroethane	200	< 200 U
98-95-3	Nitrobenzene	100	< 100 U
78-59-1	Isophorone	100	< 100 U
88-75-5	2-Nitrophenol	500	< 500 U
105-67-9	2,4-Dimethylphenol	300	< 300 U
65-85-0	Benzoic Acid	1000	< 1,000 U
111-91-1	bis(2-Chloroethoxy) Methane	100	< 100 U
120-83-2	2,4-Dichlorophenol	300	< 300 U
120-82-1	1,2,4-Trichlorobenzene	100	< 100 U
91-20-3	Naphthalene	100	< 100 U
106-47-8	4-Chloroaniline	300	< 300 U
87-68-3	Hexachlorobutadiene	200	< 200 U
59-50-7	4-Chloro-3-methylphenol	200	< 200 U
91-57-6	2-Methylnaphthalene	100	< 100 U
77-47-4	Hexachlorocyclopentadiene	500	< 500 U
88-06-2	2,4,6-Trichlorophenol	500	< 500 U
95-95-4	2,4,5-Trichlorophenol	500	< 500 U
91-58-7	2-Chloronaphthalene	100	< 100 U
88-74-4	2-Nitroaniline	500	< 500 U
131-11-3	Dimethylphthalate	100	< 100 U
208-96-8	Acenaphthylene	100	< 100 U
99-09-2	3-Nitroaniline	600	< 600 U
83-32-9	Acenaphthene	100	< 100 U
51-28-5	2,4-Dinitrophenol	2500	< 2,500 U
100-02-7	4-Nitrophenol	500	< 500 U
132-64-9	Dibenzofuran	100	< 100 U
606-20-2	2,6-Dinitrotoluene	500	< 500 U
121-14-2	2,4-Dinitrotoluene	500	< 500 U
84-66-2	Diethylphthalate	100	< 100 U

Lab Sample ID: GU76C
 LIMS ID: 04-10432
 Matrix: Water
 Date Analyzed: 07/15/04 13:19

QC Report No: GU76-Windward Environmental
 Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	100	< 100 U
86-73-7	Fluorene	100	< 100 U
100-01-6	4-Nitroaniline	500	< 500 U
534-52-1	4,6-Dinitro-2-Methylphenol	1500	< 1,500 U
86-30-6	N-Nitrosodiphenylamine	100	< 100 U
101-55-3	4-Bromophenyl-phenylether	100	< 100 U
118-74-1	Hexachlorobenzene	100	< 100 U
87-86-5	Pentachlorophenol	500	< 500 U
85-01-8	Phenanthrene	100	< 100 U
86-74-8	Carbazole	100	< 100 U
120-12-7	Anthracene	100	< 100 U
84-74-2	Di-n-Butylphthalate	100	< 100 U
206-44-0	Fluoranthene	100	< 100 U
129-00-0	Pyrene	100	< 100 U
85-68-7	Butylbenzylphthalate	100	< 100 U
91-94-1	3,3'-Dichlorobenzidine	500	< 500 U
56-55-3	Benzo (a) anthracene	100	< 100 U
117-81-7	bis (2-Ethylhexyl) phthalate	100	2,600 B
218-01-9	Chrysene	100	< 100 U
117-84-0	Di-n-Octyl phthalate	100	< 100 U
205-99-2	Benzo (b) fluoranthene	100	< 100 U
207-08-9	Benzo (k) fluoranthene	100	< 100 U
50-32-8	Benzo (a) pyrene	100	< 100 U
193-39-5	Indeno (1,2,3-cd) pyrene	100	< 100 U
53-70-3	Dibenz (a,h) anthracene	100	< 100 U
191-24-2	Benzo (g,h,i) perylene	100	< 100 U
123-91-1	1,4-Dioxane	100	< 100 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	D	2-Fluorobiphenyl	D
d14-p-Terphenyl	D	d4-1,2-Dichlorobenzene	D
d5-Phenol	D	2-Fluorophenol	D
2,4,6-Tribromophenol	D	d4-2-Chlorophenol	D
d8-1,4-Dioxane	D		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-75-C-U
SAMPLE

Lab Sample ID: GU83A

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

LIMS ID: 04-10461

Matrix: Water

Data Release Authorized: *BB*

Date Sampled: 07/03/04

Reported: 07/16/04

Date Received: 07/03/04

Date Extracted: 07/07/04

Sample Amount: 500 mL

Date Analyzed: 07/14/04 18:06

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-75-C-U
SAMPLE

Lab Sample ID: GU83A
LIMS ID: 04-10461
Matrix: Water
Date Analyzed: 07/14/04 18:06

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	1.8 B
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.8%	2-Fluorobiphenyl	58.0%
d14-p-Terphenyl	88.7%	d4-1,2-Dichlorobenzene	42.0%
d5-Phenol	57.3%	2-Fluorophenol	58.8%
2,4,6-Tribromophenol	86.5%	d4-2-Chlorophenol	63.6%
d8-1,4-Dioxane	51.6%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-75-C-U
MATRIX SPIKE

Lab Sample ID: GU83A

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

LIMS ID: 04-10461

Matrix: Water

Data Release Authorized:

Date Sampled: 07/03/04

Reported: 07/16/04

Date Received: 07/03/04

Date Extracted: 07/07/04

Sample Amount: 250 mL

Date Analyzed: 07/15/04 12:16

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	4.0	---
111-44-4	Bis-(2-Chloroethyl) Ether	4.0	< 4.0 U
95-57-8	2-Chlorophenol	2.0	---
541-73-1	1,3-Dichlorobenzene	2.0	< 2.0 U
106-46-7	1,4-Dichlorobenzene	2.0	---
100-51-6	Benzyl Alcohol	10	< 10 U
95-50-1	1,2-Dichlorobenzene	2.0	< 2.0 U
95-48-7	2-Methylphenol	2.0	< 2.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	2.0	< 2.0 U
106-44-5	4-Methylphenol	2.0	< 2.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	4.0	---
67-72-1	Hexachloroethane	4.0	< 4.0 U
98-95-3	Nitrobenzene	2.0	< 2.0 U
78-59-1	Isophorone	2.0	< 2.0 U
88-75-5	2-Nitrophenol	10	< 10 U
105-67-9	2,4-Dimethylphenol	6.0	< 6.0 U
65-85-0	Benzoic Acid	20	< 20 U
111-91-1	bis(2-Chloroethoxy) Methane	2.0	< 2.0 U
120-83-2	2,4-Dichlorophenol	6.0	< 6.0 U
120-82-1	1,2,4-Trichlorobenzene	2.0	---
91-20-3	Naphthalene	2.0	< 2.0 U
106-47-8	4-Chloroaniline	6.0	< 6.0 U
87-68-3	Hexachlorobutadiene	4.0	< 4.0 U
59-50-7	4-Chloro-3-methylphenol	4.0	---
91-57-6	2-Methylnaphthalene	2.0	< 2.0 U
77-47-4	Hexachlorocyclopentadiene	10	< 10 U
88-06-2	2,4,6-Trichlorophenol	10	< 10 U
95-95-4	2,4,5-Trichlorophenol	10	< 10 U
91-58-7	2-Chloronaphthalene	2.0	< 2.0 U
88-74-4	2-Nitroaniline	10	< 10 U
131-11-3	Dimethylphthalate	2.0	< 2.0 U
208-96-8	Acenaphthylene	2.0	< 2.0 U
99-09-2	3-Nitroaniline	12	< 12 U
83-32-9	Acenaphthene	2.0	---
51-28-5	2,4-Dinitrophenol	50	< 50 U
100-02-7	4-Nitrophenol	10	---
132-64-9	Dibenzofuran	2.0	< 2.0 U
606-20-2	2,6-Dinitrotoluene	10	< 10 U
121-14-2	2,4-Dinitrotoluene	10	---
84-66-2	Diethylphthalate	2.0	< 2.0 U

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-75-C-U
MATRIX SPIKE

Lab Sample ID: GU83A
LIMS ID: 04-10461
Matrix: Water
Date Analyzed: 07/15/04 12:16

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	2.0	< 2.0 U
86-73-7	Fluorene	2.0	< 2.0 U
100-01-6	4-Nitroaniline	10	< 10 U
534-52-1	4,6-Dinitro-2-Methylphenol	30	< 30 U
86-30-6	N-Nitrosodiphenylamine	2.0	< 2.0 U
101-55-3	4-Bromophenyl-phenylether	2.0	< 2.0 U
118-74-1	Hexachlorobenzene	2.0	< 2.0 U
87-86-5	Pentachlorophenol	10	---
85-01-8	Phenanthrene	2.0	< 2.0 U
86-74-8	Carbazole	2.0	< 2.0 U
120-12-7	Anthracene	2.0	< 2.0 U
84-74-2	Di-n-Butylphthalate	2.0	< 2.0 U
206-44-0	Fluoranthene	2.0	< 2.0 U
129-00-0	Pyrene	2.0	---
85-68-7	Butylbenzylphthalate	2.0	< 2.0 U
91-94-1	3,3'-Dichlorobenzidine	10	< 10 U
56-55-3	Benzo(a)anthracene	2.0	< 2.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	2.0	4.6 B
218-01-9	Chrysene	2.0	< 2.0 U
117-84-0	Di-n-Octyl phthalate	2.0	< 2.0 U
205-99-2	Benzo(b)fluoranthene	2.0	< 2.0 U
207-08-9	Benzo(k)fluoranthene	2.0	< 2.0 U
50-32-8	Benzo(a)pyrene	2.0	< 2.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	< 2.0 U
53-70-3	Dibenz(a,h)anthracene	2.0	< 2.0 U
191-24-2	Benzo(g,h,i)perylene	2.0	< 2.0 U
123-91-1	1,4-Dioxane	2.0	---

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	79.0%	2-Fluorobiphenyl	72.3%
d14-p-Terphenyl	97.3%	d4-1,2-Dichlorobenzene	57.4%
d5-Phenol	76.6%	2-Fluorophenol	70.9%
2,4,6-Tribromophenol	91.6%	d4-2-Chlorophenol	78.7%
d8-1,4-Dioxane	62.3%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-75-C-U
MATRIX SPIKE DUP

Lab Sample ID: GU83A

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

LIMS ID: 04-10461

Matrix: Water

Data Release Authorized:

Date Sampled: 07/03/04

Reported: 07/16/04

Date Received: 07/03/04

Date Extracted: 07/07/04

Sample Amount: 250 mL

Date Analyzed: 07/15/04 12:47

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	4.0	---
111-44-4	Bis-(2-Chloroethyl) Ether	4.0	< 4.0 U
95-57-8	2-Chlorophenol	2.0	---
541-73-1	1,3-Dichlorobenzene	2.0	< 2.0 U
106-46-7	1,4-Dichlorobenzene	2.0	---
100-51-6	Benzyl Alcohol	10	< 10 U
95-50-1	1,2-Dichlorobenzene	2.0	< 2.0 U
95-48-7	2-Methylphenol	2.0	< 2.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	2.0	< 2.0 U
106-44-5	4-Methylphenol	2.0	< 2.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	4.0	---
67-72-1	Hexachloroethane	4.0	< 4.0 U
98-95-3	Nitrobenzene	2.0	< 2.0 U
78-59-1	Isophorone	2.0	< 2.0 U
88-75-5	2-Nitrophenol	10	< 10 U
105-67-9	2,4-Dimethylphenol	6.0	< 6.0 U
65-85-0	Benzoic Acid	20	< 20 U
111-91-1	bis(2-Chloroethoxy) Methane	2.0	< 2.0 U
120-83-2	2,4-Dichlorophenol	6.0	< 6.0 U
120-82-1	1,2,4-Trichlorobenzene	2.0	---
91-20-3	Naphthalene	2.0	< 2.0 U
106-47-8	4-Chloroaniline	6.0	< 6.0 U
87-68-3	Hexachlorobutadiene	4.0	< 4.0 U
59-50-7	4-Chloro-3-methylphenol	4.0	---
91-57-6	2-Methylnaphthalene	2.0	< 2.0 U
77-47-4	Hexachlorocyclopentadiene	10	< 10 U
88-06-2	2,4,6-Trichlorophenol	10	< 10 U
95-95-4	2,4,5-Trichlorophenol	10	< 10 U
91-58-7	2-Chloronaphthalene	2.0	< 2.0 U
88-74-4	2-Nitroaniline	10	< 10 U
131-11-3	Dimethylphthalate	2.0	< 2.0 U
208-96-8	Acenaphthylene	2.0	< 2.0 U
99-09-2	3-Nitroaniline	12	< 12 U
83-32-9	Acenaphthene	2.0	---
51-28-5	2,4-Dinitrophenol	50	< 50 U
100-02-7	4-Nitrophenol	10	---
132-64-9	Dibenzofuran	2.0	< 2.0 U
606-20-2	2,6-Dinitrotoluene	10	< 10 U
121-14-2	2,4-Dinitrotoluene	10	---
84-66-2	Diethylphthalate	2.0	< 2.0 U

Lab Sample ID: GU83A
 LIMS ID: 04-10461
 Matrix: Water
 Date Analyzed: 07/15/04 12:47

QC Report No: GU83-Windward Environmental
 Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	2.0	< 2.0 U
86-73-7	Fluorene	2.0	< 2.0 U
100-01-6	4-Nitroaniline	10	< 10 U
534-52-1	4,6-Dinitro-2-Methylphenol	30	< 30 U
86-30-6	N-Nitrosodiphenylamine	2.0	< 2.0 U
101-55-3	4-Bromophenyl-phenylether	2.0	< 2.0 U
118-74-1	Hexachlorobenzene	2.0	< 2.0 U
87-86-5	Pentachlorophenol	10	---
85-01-8	Phenanthrene	2.0	< 2.0 U
86-74-8	Carbazole	2.0	< 2.0 U
120-12-7	Anthracene	2.0	< 2.0 U
84-74-2	Di-n-Butylphthalate	2.0	< 2.0 U
206-44-0	Fluoranthene	2.0	< 2.0 U
129-00-0	Pyrene	2.0	---
85-68-7	Butylbenzylphthalate	2.0	< 2.0 U
91-94-1	3,3'-Dichlorobenzidine	10	< 10 U
56-55-3	Benzo(a)anthracene	2.0	< 2.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	2.0	8.0 B
218-01-9	Chrysene	2.0	< 2.0 U
117-84-0	Di-n-Octyl phthalate	2.0	< 2.0 U
205-99-2	Benzo(b)fluoranthene	2.0	< 2.0 U
207-08-9	Benzo(k)fluoranthene	2.0	< 2.0 U
50-32-8	Benzo(a)pyrene	2.0	< 2.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	< 2.0 U
53-70-3	Dibenz(a,h)anthracene	2.0	< 2.0 U
191-24-2	Benzo(g,h,i)perylene	2.0	< 2.0 U
123-91-1	1,4-Dioxane	2.0	---

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.4%	2-Fluorobiphenyl	63.2%
d14-p-Terphenyl	90.5%	d4-1,2-Dichlorobenzene	46.4%
d5-Phenol	66.7%	2-Fluorophenol	61.8%
2,4,6-Tribromophenol	84.6%	d4-2-Chlorophenol	66.3%
d8-1,4-Dioxane	54.6%		

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Semivolatiles by SW8270C GC/MS
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
Sample ID: LDW-SP-75-C-F
SAMPLE

Lab Sample ID: GU83B

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

LIMS ID: 04-10462

Matrix: Water

Data Release Authorized: 

Date Sampled: 07/03/04

Reported: 07/16/04

Date Received: 07/03/04

Date Extracted: 07/07/04

Sample Amount: 500 mL

Date Analyzed: 07/15/04 09:04

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-75-C-F
SAMPLE

Lab Sample ID: GU83B
LIMS ID: 04-10462
Matrix: Water
Date Analyzed: 07/15/04 09:04

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	1.7 B
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.5%	2-Fluorobiphenyl	69.6%
d14-p-Terphenyl	88.5%	d4-1,2-Dichlorobenzene	52.0%
d5-Phenol	67.7%	2-Fluorophenol	66.7%
2,4,6-Tribromophenol	88.8%	d4-2-Chlorophenol	71.7%
d8-1,4-Dioxane	61.3%		

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-75-C-F
MATRIX SPIKE

Lab Sample ID: GU83B

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

LIMS ID: 04-10462

Matrix: Water

Date Sampled: 07/03/04

Data Release Authorized:

Date Received: 07/03/04

Reported: 07/16/04

Date Extracted: 07/07/04

Sample Amount: 250 mL

Date Analyzed: 07/15/04 09:37

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	4.0	---
111-44-4	Bis-(2-Chloroethyl) Ether	4.0	< 4.0 U
95-57-8	2-Chlorophenol	2.0	---
541-73-1	1,3-Dichlorobenzene	2.0	< 2.0 U
106-46-7	1,4-Dichlorobenzene	2.0	---
100-51-6	Benzyl Alcohol	10	< 10 U
95-50-1	1,2-Dichlorobenzene	2.0	< 2.0 U
95-48-7	2-Methylphenol	2.0	< 2.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	2.0	< 2.0 U
106-44-5	4-Methylphenol	2.0	< 2.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	4.0	---
67-72-1	Hexachloroethane	4.0	< 4.0 U
98-95-3	Nitrobenzene	2.0	< 2.0 U
78-59-1	Isophorone	2.0	< 2.0 U
88-75-5	2-Nitrophenol	10	< 10 U
105-67-9	2,4-Dimethylphenol	6.0	< 6.0 U
65-85-0	Benzoic Acid	20	< 20 U
111-91-1	bis(2-Chloroethoxy) Methane	2.0	< 2.0 U
120-83-2	2,4-Dichlorophenol	6.0	< 6.0 U
120-82-1	1,2,4-Trichlorobenzene	2.0	---
91-20-3	Naphthalene	2.0	< 2.0 U
106-47-8	4-Chloroaniline	6.0	< 6.0 U
87-68-3	Hexachlorobutadiene	4.0	< 4.0 U
59-50-7	4-Chloro-3-methylphenol	4.0	---
91-57-6	2-Methylnaphthalene	2.0	< 2.0 U
77-47-4	Hexachlorocyclopentadiene	10	< 10 U
88-06-2	2,4,6-Trichlorophenol	10	< 10 U
95-95-4	2,4,5-Trichlorophenol	10	< 10 U
91-58-7	2-Chloronaphthalene	2.0	< 2.0 U
88-74-4	2-Nitroaniline	10	< 10 U
131-11-3	Dimethylphthalate	2.0	< 2.0 U
208-96-8	Acenaphthylene	2.0	< 2.0 U
99-09-2	3-Nitroaniline	12	< 12 U
83-32-9	Acenaphthene	2.0	---
51-28-5	2,4-Dinitrophenol	50	< 50 U
100-02-7	4-Nitrophenol	10	---
132-64-9	Dibenzofuran	2.0	< 2.0 U
606-20-2	2,6-Dinitrotoluene	10	< 10 U
121-14-2	2,4-Dinitrotoluene	10	---
84-66-2	Diethylphthalate	2.0	< 2.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-75-C-F
MATRIX SPIKE

Lab Sample ID: GU83B
LIMS ID: 04-10462
Matrix: Water
Date Analyzed: 07/15/04 09:37

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	2.0	< 2.0 U
86-73-7	Fluorene	2.0	< 2.0 U
100-01-6	4-Nitroaniline	10	< 10 U
534-52-1	4,6-Dinitro-2-Methylphenol	30	< 30 U
86-30-6	N-Nitrosodiphenylamine	2.0	< 2.0 U
101-55-3	4-Bromophenyl-phenylether	2.0	< 2.0 U
118-74-1	Hexachlorobenzene	2.0	< 2.0 U
87-86-5	Pentachlorophenol	10	---
85-01-8	Phenanthrene	2.0	< 2.0 U
86-74-8	Carbazole	2.0	< 2.0 U
120-12-7	Anthracene	2.0	< 2.0 U
84-74-2	Di-n-Butylphthalate	2.0	< 2.0 U
206-44-0	Fluoranthene	2.0	< 2.0 U
129-00-0	Pyrene	2.0	---
85-68-7	Butylbenzylphthalate	2.0	< 2.0 U
91-94-1	3,3'-Dichlorobenzidine	10	< 10 U
56-55-3	Benzo (a) anthracene	2.0	< 2.0 U
117-81-7	bis (2-Ethylhexyl) phthalate	2.0	4.4 B
218-01-9	Chrysene	2.0	< 2.0 U
117-84-0	Di-n-Octyl phthalate	2.0	< 2.0 U
205-99-2	Benzo (b) fluoranthene	2.0	< 2.0 U
207-08-9	Benzo (k) fluoranthene	2.0	< 2.0 U
50-32-8	Benzo (a) pyrene	2.0	< 2.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	2.0	< 2.0 U
53-70-3	Dibenz (a,h) anthracene	2.0	< 2.0 U
191-24-2	Benzo (g,h,i) perylene	2.0	< 2.0 U
123-91-1	1,4-Dioxane	2.0	---

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.1%	2-Fluorobiphenyl	72.2%
d14-p-Terphenyl	95.3%	d4-1,2-Dichlorobenzene	55.4%
d5-Phenol	72.2%	2-Fluorophenol	68.6%
2,4,6-Tribromophenol	95.1%	d4-2-Chlorophenol	72.8%
d8-1,4-Dioxane	55.4%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-75-C-F
MATRIX SPIKE DUP

Lab Sample ID: GU83B
LIMS ID: 04-10462
Matrix: Water
Data Release Authorized:
Reported: 07/16/04

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING
Date Sampled: 07/03/04
Date Received: 07/03/04

Date Extracted: 07/07/04
Date Analyzed: 07/15/04 10:09
Instrument/Analyst: NT6/Van

Sample Amount: 225 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	4.4	---
111-44-4	Bis-(2-Chloroethyl) Ether	4.4	< 4.4 U
95-57-8	2-Chlorophenol	2.2	---
541-73-1	1,3-Dichlorobenzene	2.2	< 2.2 U
106-46-7	1,4-Dichlorobenzene	2.2	---
100-51-6	Benzyl Alcohol	11	< 11 U
95-50-1	1,2-Dichlorobenzene	2.2	< 2.2 U
95-48-7	2-Methylphenol	2.2	< 2.2 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	2.2	< 2.2 U
106-44-5	4-Methylphenol	2.2	< 2.2 U
621-64-7	N-Nitroso-Di-N-Propylamine	4.4	---
67-72-1	Hexachloroethane	4.4	< 4.4 U
98-95-3	Nitrobenzene	2.2	< 2.2 U
78-59-1	Isophorone	2.2	< 2.2 U
88-75-5	2-Nitrophenol	11	< 11 U
105-67-9	2,4-Dimethylphenol	6.7	< 6.7 U
65-85-0	Benzoic Acid	22	< 22 U
111-91-1	bis(2-Chloroethoxy) Methane	2.2	< 2.2 U
120-83-2	2,4-Dichlorophenol	6.7	< 6.7 U
120-82-1	1,2,4-Trichlorobenzene	2.2	---
91-20-3	Naphthalene	2.2	< 2.2 U
106-47-8	4-Chloroaniline	6.7	< 6.7 U
87-68-3	Hexachlorobutadiene	4.4	< 4.4 U
59-50-7	4-Chloro-3-methylphenol	4.4	---
91-57-6	2-Methylnaphthalene	2.2	< 2.2 U
77-47-4	Hexachlorocyclopentadiene	11	< 11 U
88-06-2	2,4,6-Trichlorophenol	11	< 11 U
95-95-4	2,4,5-Trichlorophenol	11	< 11 U
91-58-7	2-Chloronaphthalene	2.2	< 2.2 U
88-74-4	2-Nitroaniline	11	< 11 U
131-11-3	Dimethylphthalate	2.2	< 2.2 U
208-96-8	Acenaphthylene	2.2	< 2.2 U
99-09-2	3-Nitroaniline	13	< 13 U
83-32-9	Acenaphthene	2.2	---
51-28-5	2,4-Dinitrophenol	56	< 56 U
100-02-7	4-Nitrophenol	11	---
132-64-9	Dibenzofuran	2.2	< 2.2 U
606-20-2	2,6-Dinitrotoluene	11	< 11 U
121-14-2	2,4-Dinitrotoluene	11	---
84-66-2	Diethylphthalate	2.2	< 2.2 U

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-75-C-F
MATRIX SPIKE DUP

Lab Sample ID: GU83B
LIMS ID: 04-10462
Matrix: Water
Date Analyzed: 07/15/04 10:09

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	2.2	< 2.2 U
86-73-7	Fluorene	2.2	< 2.2 U
100-01-6	4-Nitroaniline	11	< 11 U
534-52-1	4,6-Dinitro-2-Methylphenol	33	< 33 U
86-30-6	N-Nitrosodiphenylamine	2.2	< 2.2 U
101-55-3	4-Bromophenyl-phenylether	2.2	< 2.2 U
118-74-1	Hexachlorobenzene	2.2	< 2.2 U
87-86-5	Pentachlorophenol	11	---
85-01-8	Phenanthrene	2.2	< 2.2 U
86-74-8	Carbazole	2.2	< 2.2 U
120-12-7	Anthracene	2.2	< 2.2 U
84-74-2	Di-n-Butylphthalate	2.2	< 2.2 U
206-44-0	Fluoranthene	2.2	< 2.2 U
129-00-0	Pyrene	2.2	---
85-68-7	Butylbenzylphthalate	2.2	< 2.2 U
91-94-1	3,3'-Dichlorobenzidine	11	< 11 U
56-55-3	Benzo (a) anthracene	2.2	< 2.2 U
117-81-7	bis (2-Ethylhexyl) phthalate	2.2	6.3 B
218-01-9	Chrysene	2.2	< 2.2 U
117-84-0	Di-n-Octyl phthalate	2.2	< 2.2 U
205-99-2	Benzo (b) fluoranthene	2.2	< 2.2 U
207-08-9	Benzo (k) fluoranthene	2.2	< 2.2 U
50-32-8	Benzo (a) pyrene	2.2	< 2.2 U
193-39-5	Indeno (1,2,3-cd) pyrene	2.2	< 2.2 U
53-70-3	Dibenz (a,h) anthracene	2.2	< 2.2 U
191-24-2	Benzo (g,h,i) perylene	2.2	< 2.2 U
123-91-1	1,4-Dioxane	2.2	---

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	79.0%	2-Fluorobiphenyl	73.3%
d14-p-Terphenyl	88.9%	d4-1,2-Dichlorobenzene	55.8%
d5-Phenol	77.0%	2-Fluorophenol	73.7%
2,4,6-Tribromophenol	90.1%	d4-2-Chlorophenol	77.8%
d8-1,4-Dioxane	63.9%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-64-RB-S-U
SAMPLE

Lab Sample ID: GU83C
LIMS ID: 04-10463
Matrix: Water
Data Release Authorized:
Reported: 07/16/04

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/03/04
Date Received: 07/03/04

Date Extracted: 07/07/04
Date Analyzed: 07/15/04 10:40
Instrument/Analyst: NT6/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-64-RB-S-U
SAMPLE

Lab Sample ID: GU83C
LIMS ID: 04-10463
Matrix: Water
Date Analyzed: 07/15/04 10:40

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo (a) anthracene	1.0	< 1.0 U
117-81-7	bis (2-Ethylhexyl) phthalate	1.0	1.2 B
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo (b) fluoranthene	1.0	< 1.0 U
207-08-9	Benzo (k) fluoranthene	1.0	< 1.0 U
50-32-8	Benzo (a) pyrene	1.0	< 1.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	< 1.0 U
53-70-3	Dibenz (a,h) anthracene	1.0	< 1.0 U
191-24-2	Benzo (g,h,i) perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.7%	2-Fluorobiphenyl	69.9%
d14-p-Terphenyl	94.0%	d4-1,2-Dichlorobenzene	56.4%
d5-Phenol	66.5%	2-Fluorophenol	68.2%
2,4,6-Tribromophenol	88.2%	d4-2-Chlorophenol	72.0%
d8-1,4-Dioxane	58.5%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-64-RB-MP-U
SAMPLE

Lab Sample ID: GU83D

QC Report No: GU83-Windward Environmental

LIMS ID: 04-10464

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized:

Date Sampled: 07/03/04

Reported: 07/16/04

Date Received: 07/03/04

Date Extracted: 07/07/04

Sample Amount: 500 mL

Date Analyzed: 07/15/04 11:12

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-64-RB-MP-U
SAMPLE

Lab Sample ID: GU83D
LIMS ID: 04-10464
Matrix: Water
Date Analyzed: 07/15/04 11:12

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	2.4 B
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	79.4%	2-Fluorobiphenyl	73.9%
d14-p-Terphenyl	97.9%	d4-1,2-Dichlorobenzene	60.1%
d5-Phenol	62.6%	2-Fluorophenol	69.4%
2,4,6-Tribromophenol	93.8%	d4-2-Chlorophenol	78.2%
d8-1,4-Dioxane	52.8%		

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-64-C-U
SAMPLE

Lab Sample ID: GU83E

QC Report No: GU83-Windward Environmental

LIMS ID: 04-10465

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: *[Signature]*

Date Sampled: 07/02/04

Reported: 07/16/04

Date Received: 07/03/04

Date Extracted: 07/07/04

Sample Amount: 500 mL

Date Analyzed: 07/15/04 11:44

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-64-C-U
SAMPLE

Lab Sample ID: GU83E
LIMS ID: 04-10465
Matrix: Water
Date Analyzed: 07/15/04 11:44

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	1.7 B
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U


Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	73.7%	2-Fluorobiphenyl	68.9%
d14-p-Terphenyl	90.0%	d4-1,2-Dichlorobenzene	50.5%
d5-Phenol	67.9%	2-Fluorophenol	68.9%
2,4,6-Tribromophenol	92.0%	d4-2-Chlorophenol	72.2%
d8-1,4-Dioxane	61.7%		

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-75-C-F
MS/MSD

Lab Sample ID: GU83B
LIMS ID: 04-10462
Matrix: Water
Data Release Authorized: 
Reported: 07/16/04

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/03/04
Date Received: 07/03/04

Date Extracted MS/MSD: 07/07/04

Sample Amount MS: 250 mL
MSD: 225 mL

Date Analyzed MS: 07/15/04 09:37
MSD: 07/15/04 10:09

Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL

Instrument/Analyst MS: NT6/Van
MSD: NT6/Van

Dilution Factor MS: 1.00
MSD: 1.00

GPC Cleanup: NO

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 2.0	50.2	75.0	66.9%	60.4	83.3	72.5%	18.4%
2-Chlorophenol	< 1.0	49.2	75.0	65.6%	59.0	83.3	70.8%	18.1%
1,4-Dichlorobenzene	< 1.0	25.6	50.0	51.2%	25.1	55.6	45.1%	2.0%
N-Nitroso-Di-N-Propylamine	< 2.0	33.6	50.0	67.2%	38.1	55.6	68.5%	12.6%
1,2,4-Trichlorobenzene	< 1.0	27.8	50.0	55.6%	27.5	55.6	49.5%	1.1%
4-Chloro-3-methylphenol	< 2.0	59.9	75.0	79.9%	67.7	83.3	81.3%	12.2%
Acenaphthene	< 1.0	37.6	50.0	75.2%	41.2	55.6	74.1%	9.1%
4-Nitrophenol	< 5.0	66.5	75.0	88.7%	69.6	83.3	83.6%	4.6%
2,4-Dinitrotoluene	< 5.0	36.3	50.0	72.6%	39.7	55.6	71.4%	8.9%
Pentachlorophenol	< 5.0	77.0	75.0	103%	82.6	83.3	99.2%	7.0%
Pyrene	< 1.0	44.8	50.0	89.6%	48.0	55.6	86.3%	6.9%
1,4-Dioxane	< 1.0	30.9	50.0	61.8%	36.7	55.6	66.0%	17.2%

Results reported in $\mu\text{g/L}$

RPD calculated using sample concentrations per SW846.

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-75-C-U
MS/MSD

Lab Sample ID: GU83A

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

LIMS ID: 04-10461

Matrix: Water

Data Release Authorized:

Date Sampled: 07/03/04

Reported: 07/16/04

Date Received: 07/03/04

Date Extracted MS/MSD: 07/07/04

Sample Amount MS: 250 mL

MSD: 250 mL

Date Analyzed MS: 07/15/04 12:16

Final Extract Volume MS: 0.5 mL

MSD: 07/15/04 12:47

MSD: 0.5 mL

Instrument/Analyst MS: NT6/Van

Dilution Factor MS: 1.00

MSD: NT6/Van

MSD: 1.00

GPC Cleanup: NO


Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 2.0	51.7	75.0	68.9%	44.9	75.0	59.9%	14.1%
2-Chlorophenol	< 1.0	50.2	75.0	66.9%	42.8	75.0	57.1%	15.9%
1,4-Dichlorobenzene	< 1.0	26.3	50.0	52.6%	21.3	50.0	42.6%	21.0%
N-Nitroso-Di-N-Propylamine	< 2.0	33.1	50.0	66.2%	30.3	50.0	60.6%	8.8%
1,2,4-Trichlorobenzene	< 1.0	27.8	50.0	55.6%	23.2	50.0	46.4%	18.0%
4-Chloro-3-methylphenol	< 2.0	57.9	75.0	77.2%	55.0	75.0	73.3%	5.1%
Acenaphthene	< 1.0	36.3	50.0	72.6%	33.6	50.0	67.2%	7.7%
4-Nitrophenol	< 5.0	57.7	75.0	76.9%	58.6	75.0	78.1%	1.5%
2,4-Dinitrotoluene	< 5.0	33.3	50.0	66.6%	33.2	50.0	66.4%	0.3%
Pentachlorophenol	< 5.0	73.5	75.0	98.0%	72.3	75.0	96.4%	1.6%
Pyrene	< 1.0	44.3	50.0	88.6%	42.8	50.0	85.6%	3.4%
1,4-Dioxane	< 1.0	29.4	50.0	58.8%	31.6	50.0	63.2%	7.2%

Results reported in $\mu\text{g/L}$

RPD calculated using sample concentrations per SW846.

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Sample ID: LCS-070704
LAB CONTROL

Lab Sample ID: LCS-070704
LIMS ID: 04-10230
Matrix: Water
Data Release Authorized: 
Reported: 07/15/04

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

Date Sampled: 06/30/04
Date Received: 06/30/04

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

Date Extracted: 07/07/04
Date Analyzed: 07/14/04 11:44
Instrument/Analyst: NT6/Van
GPC Cleanup: NO

Analyte	Lab Control	Spike Added	Recovery
Phenol	24.5	37.5	65.3%
2-Chlorophenol	24.2	37.5	64.5%
1,4-Dichlorobenzene	11.0	25.0	44.0%
N-Nitroso-Di-N-Propylamine	15.8	25.0	63.2%
1,2,4-Trichlorobenzene	11.9	25.0	47.6%
4-Chloro-3-methylphenol	28.3	37.5	75.5%
Acenaphthene	18.2	25.0	72.8%
4-Nitrophenol	29.8	37.5	79.5%
2,4-Dinitrotoluene	17.2	25.0	68.8%
Pentachlorophenol	39.2	37.5	105%
Pyrene	22.6	25.0	90.4%
1,4-Dioxane	16.7	25.0	66.8%

Semivolatile Surrogate Recovery

d5-Nitrobenzene	74.6%
2-Fluorobiphenyl	74.9%
d14-p-Terphenyl	96.1%
d4-1,2-Dichlorobenzene	59.1%
d5-Phenol	73.9%
2-Fluorophenol	67.9%
2,4,6-Tribromophenol	91.1%
d4-2-Chlorophenol	74.3%
d8-1,4-Dioxane	63.6%

Results reported in $\mu\text{g/L}$

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

GU45MBW1

Lab Name: ANALYTICAL RESOURCES, INC	Client: WINDWARD ENVIRONMENTAL
Lab Code: GU83	Project: LDW-SEEP SAMPLING SDG No.: GU83
Lab File ID: GU45MB	Lab Sample ID: GU45MBW1
Instrument ID: NT6	Date Extracted: 07/07/04
Matrix: (soil/water) WATER	Date Analyzed: 07/14/04
Level: (low/med) LOW	Time Analyzed: 1113

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
01	GU45LCSW1	GU45LCSW1	GU45SB	07/14/04
02	LDW-SP-48-C-U	GU45A	GU45A	07/14/04
03	LDW-SP-48-C-F	GU45B	GU45B	07/14/04
04	LDW-SP-54-C-U	GU45C	GU45C	07/14/04
05	LDW-SP-54-C-F	GU45D	GU45D	07/14/04
06	LDW-SP-82-C-U	GU45E	GU45E	07/14/04
07	LDW-SP-61-C-F	GU76C	GU76C	07/14/04
08	LDW-SP-82-C-F	GU45F	GU45F	07/14/04
09	LDW-SP-82-C-FD-U	GU45G	GU45G	07/14/04
10	LDW-SP-82-C-FD-F	GU45H	GU45H	07/14/04
11	LDW-SP-62-C-F	GU76A	GU76A	07/14/04
12	LDW-SP-61-C-U	GU76B	GU76B	07/14/04
13	LDW-SP-75-C-U	GU83A	GU83A	07/14/04
14	LDW-SP-75-C-F	GU83B	GU83B	07/15/04
15	LDW-SP-75-C-F MS	GU83BMS	GU83BMS	07/15/04
16	LDW-SP-75-C-F MS	GU83BMSD	GU83BMSD	07/15/04
17	LDW-SP-64-RB-S-U	GU83C	GU83C	07/15/04
18	LDW-SP-64-RB-MP-	GU83D	GU83D	07/15/04
19	LDW-SP-64-C-U	GU83E	GU83E	07/15/04
20	LDW-SP-75-C-U MS	GU83AMS	GU83AMS	07/15/04
21	LDW-SP-75-C-U MS	GU83AMSD	GU83AMSD	07/15/04
22	LDW-SP-61-C-F	GU76C	GU76CDL	07/15/04
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS :

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Semivolatiles by SW8270C GC/MS
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Sample ID: MB-070704
METHOD BLANK

Lab Sample ID: MB-070704
LIMS ID: 04-10230
Matrix: Water
Data Release Authorized: *AS*
Reported: 07/15/04

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

Date Sampled: NA
Date Received: NA

Date Extracted: 07/07/04
Date Analyzed: 07/14/04 11:13
Instrument/Analyst: NT6/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

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Semivolatiles by SW8270C GC/MS
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Sample ID: MB-070704
METHOD BLANK

Lab Sample ID: MB-070704
LIMS ID: 04-10230
Matrix: Water
Date Analyzed: 07/14/04 11:13

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	1.2
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	74.1%	2-Fluorobiphenyl	71.1%
d14-p-Terphenyl	96.9%	d4-1,2-Dichlorobenzene	52.7%
d5-Phenol	66.1%	2-Fluorophenol	66.7%
2,4,6-Tribromophenol	90.9%	d4-2-Chlorophenol	71.6%
d8-1,4-Dioxane	56.1%		

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	DXN	TOT	OUT
MB-070204	80.0%	71.6%	88.0%	58.4%	75.1%	75.5%	79.7%	79.1%	62.8%	0	
LCS-070204	73.5%	70.7%	88.5%	60.3%	74.6%	71.5%	81.5%	75.9%	61.8%	0	
LDW-SP-10-C-F	74.4%	71.4%	83.0%	59.2%	68.0%	69.8%	80.9%	74.6%	62.5%	0	
LDW-SP-12-C-F	65.4%	64.1%	88.2%	53.1%	60.7%	60.3%	74.2%	65.3%	52.8%	0	
LDW-SP-20-C-F	64.9%	65.0%	86.0%	47.1%	60.3%	59.2%	80.1%	64.0%	47.7%	0	
LDW-SP-41-C-F	68.9%	62.5%	83.8%	53.9%	62.9%	62.6%	74.3%	67.7%	55.9%	0	
LDW-SP-41-C-F MS	68.3%	66.8%	90.4%	50.8%	66.2%	61.6%	82.8%	67.7%	51.8%	0	
LDW-SP-41-C-F MSD	76.6%	75.5%	100%	59.6%	70.3%	65.2%	90.6%	74.6%	50.9%	0	
LDW-SP-12-C-U	54.5%	51.4%	86.1%	40.5%	50.4%	48.2%	66.6%	53.6%	42.2%	0	
LDW-SP-20-C-U	59.2%	58.1%	80.6%	48.8%	54.0%	54.0%	71.2%	57.9%	44.9%	0	
LDW-SP-41-C-U	61.4%	56.2%	81.4%	45.0%	57.0%	55.7%	73.1%	61.6%	49.2%	0	
LDW-SP-41-C-U MS	69.5%	69.8%	90.1%	51.1%	66.7%	60.8%	83.5%	67.9%	49.0%	0	
LDW-SP-41-C-U MSD	78.1%	76.3%	103%	59.9%	77.5%	69.1%	90.3%	77.2%	58.3%	0	
LDW-SP-39-C-F	65.3%	64.6%	85.6%	50.3%	60.5%	59.7%	78.9%	64.1%	49.5%	0	
LDW-SP-80-C-F	62.6%	63.6%	75.4%	47.6%	61.2%	55.7%	82.6%	63.3%	41.0%	0	
LDW-SP-39-C-U	72.5%	67.8%	87.1%	54.8%	65.0%	63.1%	84.9%	69.5%	54.9%	0	
LDW-SP-80-C-U	68.2%	66.7%	80.3%	50.0%	64.7%	61.7%	89.4%	67.5%	47.9%	0	

LCS/MB LIMITS QC LIMITS

(NBZ) = d5-Nitrobenzene	(44-107)	(38-111)
(FBP) = 2-Fluorobiphenyl	(43-99)	(30-109)
(TPH) = d14-p-Terphenyl	(44-123)	(37-113)
(DCB) = d4-1,2-Dichlorobenzene	(36-88)	(35-88)
(PHL) = d5-Phenol	(47-101)	(42-98)
(2FP) = 2-Fluorophenol	(44-102)	(40-99)
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)
(2CP) = d4-2-Chlorophenol	(50-102)	(47-101)
(DXN) = d8-1,4-Dioxane	(30-160)	(30-160)

Prep Method: SW3520C

Log Number Range: 04-10337 to 04-10347

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-10-C-F
SAMPLE

Lab Sample ID: GU59A

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10337

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: *[Signature]*

Date Sampled: 07/01/04

Reported: 07/15/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Sample Amount: 500 mL

Date Analyzed: 07/13/04 15:00

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-10-C-F
SAMPLE

Lab Sample ID: GU59A
LIMS ID: 04-10337
Matrix: Water
Date Analyzed: 07/13/04 15:00

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U


Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	74.4%	2-Fluorobiphenyl	71.4%
d14-p-Terphenyl	83.0%	d4-1,2-Dichlorobenzene	59.2%
d5-Phenol	68.0%	2-Fluorophenol	69.8%
2,4,6-Tribromophenol	80.9%	d4-2-Chlorophenol	74.6%
d8-1,4-Dioxane	62.5%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-12-C-F
SAMPLE

Lab Sample ID: GU59B
LIMS ID: 04-10338
Matrix: Water
Data Release Authorized: 
Reported: 07/15/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted: 07/02/04
Date Analyzed: 07/13/04 15:32
Instrument/Analyst: NT6/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-12-C-F
SAMPLE

Lab Sample ID: GU59B
LIMS ID: 04-10338
Matrix: Water
Date Analyzed: 07/13/04 15:32

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.4%	2-Fluorobiphenyl	64.1%
d14-p-Terphenyl	88.2%	d4-1,2-Dichlorobenzene	53.1%
d5-Phenol	60.7%	2-Fluorophenol	60.3%
2,4,6-Tribromophenol	74.2%	d4-2-Chlorophenol	65.3%
d8-1,4-Dioxane	52.8%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-20-C-F
SAMPLE

Lab Sample ID: GU59C

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10339

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized:

Date Sampled: 07/01/04

Reported: 07/15/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Sample Amount: 500 mL

Date Analyzed: 07/13/04 16:04

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-20-C-F
SAMPLE

Lab Sample ID: GU59C
LIMS ID: 04-10339
Matrix: Water
Date Analyzed: 07/13/04 16:04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.9%	2-Fluorobiphenyl	65.0%
d14-p-Terphenyl	86.0%	d4-1,2-Dichlorobenzene	47.1%
d5-Phenol	60.3%	2-Fluorophenol	59.2%
2,4,6-Tribromophenol	80.1%	d4-2-Chlorophenol	64.0%
d8-1,4-Dioxane	47.7%		

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-41-C-F
SAMPLE

Lab Sample ID: GU59D
LIMS ID: 04-10340
Matrix: Water
Data Release Authorized: *AS*
Reported: 07/15/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted: 07/02/04
Date Analyzed: 07/13/04 16:35
Instrument/Analyst: NT6/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	1.6

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Sample ID: LDW-SP-41-C-F
SAMPLE

Lab Sample ID: GU59D
LIMS ID: 04-10340
Matrix: Water
Date Analyzed: 07/13/04 16:35

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.9%	2-Fluorobiphenyl	62.5%
d14-p-Terphenyl	83.8%	d4-1,2-Dichlorobenzene	53.9%
d5-Phenol	62.9%	2-Fluorophenol	62.6%
2,4,6-Tribromophenol	74.3%	d4-2-Chlorophenol	67.7%
d8-1,4-Dioxane	55.9%		

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-41-C-F
MATRIX SPIKE


Lab Sample ID: GU59D

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

LIMS ID: 04-10340

Matrix: Water

Date Sampled: 07/01/04

Data Release Authorized: 

Date Received: 07/01/04

Reported: 07/15/04

Date Extracted: 07/02/04

Sample Amount: 500 mL

Date Analyzed: 07/13/04 17:07

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	---
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	---
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	---
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	---
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	---
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	---
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	---
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	---
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	---
84-66-2	Diethylphthalate	1.0	< 1.0 U

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-41-C-F
MATRIX SPIKE

Lab Sample ID: GU59D
LIMS ID: 04-10340
Matrix: Water
Date Analyzed: 07/13/04 17:07

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	---
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	---
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo (a) anthracene	1.0	< 1.0 U
117-81-7	bis (2-Ethylhexyl) phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo (b) fluoranthene	1.0	< 1.0 U
207-08-9	Benzo (k) fluoranthene	1.0	< 1.0 U
50-32-8	Benzo (a) pyrene	1.0	< 1.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	< 1.0 U
53-70-3	Dibenz (a,h) anthracene	1.0	< 1.0 U
191-24-2	Benzo (g,h,i) perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	---

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.3%	2-Fluorobiphenyl	66.8%
d14-p-Terphenyl	90.4%	d4-1,2-Dichlorobenzene	50.8%
d5-Phenol	66.2%	2-Fluorophenol	61.6%
2,4,6-Tribromophenol	82.8%	d4-2-Chlorophenol	67.7%
d8-1,4-Dioxane	51.8%		

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-41-C-F
MATRIX SPIKE DUP

Lab Sample ID: GU59D
LIMS ID: 04-10340
Matrix: Water
Data Release Authorized:
Reported: 07/15/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING
Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted: 07/02/04
Date Analyzed: 07/13/04 17:39
Instrument/Analyst: NT6/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	---
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	---
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	---
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	---
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	---
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	---
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	---
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	---
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	---
84-66-2	Diethylphthalate	1.0	< 1.0 U

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-41-C-F
MATRIX SPIKE DUP

Lab Sample ID: GU59D
LIMS ID: 04-10340
Matrix: Water
Date Analyzed: 07/13/04 17:39

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	---
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	---
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	---

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.6%	2-Fluorobiphenyl	75.5%
d14-p-Terphenyl	100%	d4-1,2-Dichlorobenzene	59.6%
d5-Phenol	70.3%	2-Fluorophenol	65.2%
2,4,6-Tribromophenol	90.6%	d4-2-Chlorophenol	74.6%
d8-1,4-Dioxane	50.9%		

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-12-C-U
SAMPLE

Lab Sample ID: GU59E

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10341

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized:

Date Sampled: 07/01/04

Reported: 07/15/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Sample Amount: 500 mL

Date Analyzed: 07/13/04 18:11

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-12-C-U
SAMPLE

Lab Sample ID: GU59E
LIMS ID: 04-10341
Matrix: Water
Date Analyzed: 07/13/04 18:11

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	54.5%	2-Fluorobiphenyl	51.4%
d14-p-Terphenyl	86.1%	d4-1,2-Dichlorobenzene	40.5%
d5-Phenol	50.4%	2-Fluorophenol	48.2%
2,4,6-Tribromophenol	66.6%	d4-2-Chlorophenol	53.6%
d8-1,4-Dioxane	42.2%		

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-20-C-U
SAMPLE

Lab Sample ID: GU59F
LIMS ID: 04-10342
Matrix: Water
Data Release Authorized:
Reported: 07/15/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING
Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted: 07/02/04
Date Analyzed: 07/13/04 18:42
Instrument/Analyst: NT6/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-20-C-U
SAMPLE

Lab Sample ID: GU59F
LIMS ID: 04-10342
Matrix: Water
Date Analyzed: 07/13/04 18:42

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.2%	2-Fluorobiphenyl	58.1%
d14-p-Terphenyl	80.6%	d4-1,2-Dichlorobenzene	48.8%
d5-Phenol	54.0%	2-Fluorophenol	54.0%
2,4,6-Tribromophenol	71.2%	d4-2-Chlorophenol	57.9%
d8-1,4-Dioxane	44.9%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-41-C-U
SAMPLE

Lab Sample ID: GU59G

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10343

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized:

Date Sampled: 07/01/04

Reported: 07/15/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Sample Amount: 500 mL

Date Analyzed: 07/13/04 19:14

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-41-C-U
SAMPLE

Lab Sample ID: GU59G
LIMS ID: 04-10343
Matrix: Water
Date Analyzed: 07/13/04 19:14

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	3.9
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	61.4%	2-Fluorobiphenyl	56.2%
d14-p-Terphenyl	81.4%	d4-1,2-Dichlorobenzene	45.0%
d5-Phenol	57.0%	2-Fluorophenol	55.7%
2,4,6-Tribromophenol	73.1%	d4-2-Chlorophenol	61.6%
d8-1,4-Dioxane	49.2%		

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Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-41-C-U
MATRIX SPIKE


Lab Sample ID: GU59G

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10343

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: 

Date Sampled: 07/01/04

Reported: 07/15/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Sample Amount: 500 mL

Date Analyzed: 07/13/04 19:45

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	---
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	---
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	---
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	---
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	---
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	---
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	---
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	---
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	---
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-41-C-U
MATRIX SPIKE

Lab Sample ID: GU59G
LIMS ID: 04-10343
Matrix: Water
Date Analyzed: 07/13/04 19:45

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	---
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	---
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo (a) anthracene	1.0	< 1.0 U
117-81-7	bis (2-Ethylhexyl) phthalate	1.0	1.3
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo (b) fluoranthene	1.0	< 1.0 U
207-08-9	Benzo (k) fluoranthene	1.0	< 1.0 U
50-32-8	Benzo (a) pyrene	1.0	< 1.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	< 1.0 U
53-70-3	Dibenz (a,h) anthracene	1.0	< 1.0 U
191-24-2	Benzo (g,h,i) perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	---

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	69.5%	2-Fluorobiphenyl	69.8%
d14-p-Terphenyl	90.1%	d4-1,2-Dichlorobenzene	51.1%
d5-Phenol	66.7%	2-Fluorophenol	60.8%
2,4,6-Tribromophenol	83.5%	d4-2-Chlorophenol	67.9%
d8-1,4-Dioxane	49.0%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-41-C-U
MATRIX SPIKE DUP

Lab Sample ID: GU59G

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

LIMS ID: 04-10343

Matrix: Water

Data Release Authorized:

Date Sampled: 07/01/04

Reported: 07/15/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Sample Amount: 500 mL

Date Analyzed: 07/13/04 20:17

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	---
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	---
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	---
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	---
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	---
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	---
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	---
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	---
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	---
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 2 of 2

Sample ID: LDW-SP-41-C-U
MATRIX SPIKE DUP

Lab Sample ID: GU59G
LIMS ID: 04-10343
Matrix: Water
Date Analyzed: 07/13/04 20:17

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	---
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	---
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo (a) anthracene	1.0	< 1.0 U
117-81-7	bis (2-Ethylhexyl)phthalate	1.0	1.0
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo (b) fluoranthene	1.0	< 1.0 U
207-08-9	Benzo (k) fluoranthene	1.0	< 1.0 U
50-32-8	Benzo (a) pyrene	1.0	< 1.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	< 1.0 U
53-70-3	Dibenz (a,h) anthracene	1.0	< 1.0 U
191-24-2	Benzo (g,h,i) perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	---

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.1%	2-Fluorobiphenyl	76.3%
d14-p-Terphenyl	103%	d4-1,2-Dichlorobenzene	59.9%
d5-Phenol	77.5%	2-Fluorophenol	69.1%
2,4,6-Tribromophenol	90.3%	d4-2-Chlorophenol	77.2%
d8-1,4-Dioxane	58.3%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-39-C-F
SAMPLE


Lab Sample ID: GU59H

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10344

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: 

Date Sampled: 07/01/04

Reported: 07/15/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Sample Amount: 500 mL

Date Analyzed: 07/13/04 20:49

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-39-C-F
SAMPLE

Lab Sample ID: GU59H
LIMS ID: 04-10344
Matrix: Water
Date Analyzed: 07/13/04 20:49

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.3%	2-Fluorobiphenyl	64.6%
d14-p-Terphenyl	85.6%	d4-1,2-Dichlorobenzene	50.3%
d5-Phenol	60.5%	2-Fluorophenol	59.7%
2,4,6-Tribromophenol	78.9%	d4-2-Chlorophenol	64.1%
d8-1,4-Dioxane	49.5%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-80-C-F
SAMPLE


Lab Sample ID: GU59I

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10345

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: 

Date Sampled: 07/01/04

Reported: 07/15/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Sample Amount: 500 mL

Date Analyzed: 07/13/04 21:20

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-80-C-F
SAMPLE

Lab Sample ID: GU59I
LIMS ID: 04-10345
Matrix: Water
Date Analyzed: 07/13/04 21:20

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.6%	2-Fluorobiphenyl	63.6%
d14-p-Terphenyl	75.4%	d4-1,2-Dichlorobenzene	47.6%
d5-Phenol	61.2%	2-Fluorophenol	55.7%
2,4,6-Tribromophenol	82.6%	d4-2-Chlorophenol	63.3%
d8-1,4-Dioxane	41.0%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-39-C-U
SAMPLE


Lab Sample ID: GU59J

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10346

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: 

Date Sampled: 07/01/04

Reported: 07/15/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Sample Amount: 500 mL

Date Analyzed: 07/13/04 21:52

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-39-C-U
SAMPLE

Lab Sample ID: GU59J
LIMS ID: 04-10346
Matrix: Water
Date Analyzed: 07/13/04 21:52

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	1.1
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.5%	2-Fluorobiphenyl	67.8%
d14-p-Terphenyl	87.1%	d4-1,2-Dichlorobenzene	54.8%
d5-Phenol	65.0%	2-Fluorophenol	63.1%
2,4,6-Tribromophenol	84.9%	d4-2-Chlorophenol	69.5%
d8-1,4-Dioxane	54.9%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-80-C-U
SAMPLE

Lab Sample ID: GU59K

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10347

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized:

Date Sampled: 07/01/04

Reported: 07/15/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Sample Amount: 500 mL

Date Analyzed: 07/13/04 22:23

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/Van

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-80-C-U
SAMPLE

Lab Sample ID: GU59K
LIMS ID: 04-10347
Matrix: Water
Date Analyzed: 07/13/04 22:23

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.2%	2-Fluorobiphenyl	66.7%
d14-p-Terphenyl	80.3%	d4-1,2-Dichlorobenzene	50.0%
d5-Phenol	64.7%	2-Fluorophenol	61.7%
2,4,6-Tribromophenol	89.4%	d4-2-Chlorophenol	67.5%
d8-1,4-Dioxane	47.9%		

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-41-C-F
MS/MSD

Lab Sample ID: GU59D
LIMS ID: 04-10340
Matrix: Water
Data Release Authorized:
Reported: 07/14/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted MS/MSD: 07/02/04

Sample Amount MS: 500 mL
MSD: 500 mL

Date Analyzed MS: 07/13/04 17:07
MSD: 07/13/04 17:39

Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL

Instrument/Analyst MS: NT6/Van
MSD: NT6/Van

Dilution Factor MS: 1.00
MSD: 1.00

GPC Cleanup: NO

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 2.0	20.0	37.5	53.3%	23.0	37.5	61.3%	14.0%
2-Chlorophenol	< 1.0	19.2	37.5	51.2%	23.2	37.5	61.9%	18.9%
1,4-Dichlorobenzene	< 1.0	10.5	25.0	42.0%	11.9	25.0	47.6%	12.5%
N-Nitroso-Di-N-Propylamine	< 2.0	13.7	25.0	54.8%	17.8	25.0	71.2%	26.0%
1,2,4-Trichlorobenzene	< 1.0	11.1	25.0	44.4%	13.1	25.0	52.4%	16.5%
4-Chloro-3-methylphenol	< 2.0	24.0	37.5	64.0%	29.2	37.5	77.9%	19.5%
Acenaphthene	< 1.0	15.0	25.0	60.0%	18.2	25.0	72.8%	19.3%
4-Nitrophenol	< 5.0	27.6	37.5	73.6%	32.7	37.5	87.2%	16.9%
2,4-Dinitrotoluene	< 5.0	15.9	25.0	63.6%	19.6	25.0	78.4%	20.8%
Pentachlorophenol	< 5.0	30.0	37.5	80.0%	37.2	37.5	99.2%	21.4%
Pyrene	< 1.0	18.8	25.0	75.2%	22.7	25.0	90.8%	18.8%
1,4-Dioxane	< 5.0	11.9	25.0	47.6%	13.9	25.0	55.6%	15.5%

Results reported in $\mu\text{g/L}$

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LDW-SP-41-C-U
MS/MSD

Lab Sample ID: GU59G

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

LIMS ID: 04-10343

Matrix: Water

Data Release Authorized: 

Date Sampled: 07/01/04

Reported: 07/14/04

Date Received: 07/01/04

Date Extracted MS/MSD: 07/02/04

Sample Amount MS: 500 mL

MSD: 500 mL

Date Analyzed MS: 07/13/04 19:45

Final Extract Volume MS: 0.5 mL

MSD: 07/13/04 20:17

MSD: 0.5 mL

Instrument/Analyst MS: NT6/Van

Dilution Factor MS: 1.00

MSD: NT6/Van

MSD: 1.00

GPC Cleanup: NO


Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 2.0	20.3	37.5	54.1%	26.3	37.5	70.1%	25.8%
2-Chlorophenol	< 1.0	19.8	37.5	52.8%	25.2	37.5	67.2%	24.0%
1,4-Dichlorobenzene	< 1.0	10.6	25.0	42.4%	13.2	25.0	52.8%	21.8%
N-Nitroso-Di-N-Propylamine	< 2.0	15.4	25.0	61.6%	19.0	25.0	76.0%	20.9%
1,2,4-Trichlorobenzene	< 1.0	11.3	25.0	45.2%	14.1	25.0	56.4%	22.0%
4-Chloro-3-methylphenol	< 2.0	23.4	37.5	62.4%	29.0	37.5	77.3%	21.4%
Acenaphthene	< 1.0	15.7	25.0	62.8%	19.3	25.0	77.2%	20.6%
4-Nitrophenol	< 5.0	29.8	37.5	79.5%	36.7	37.5	97.9%	20.8%
2,4-Dinitrotoluene	< 5.0	16.7	25.0	66.8%	20.9	25.0	83.6%	22.3%
Pentachlorophenol	< 5.0	30.8	37.5	82.1%	39.4	37.5	105%	24.5%
Pyrene	< 1.0	18.8	25.0	75.2%	24.4	25.0	97.6%	25.9%
1,4-Dioxane	< 5.0	11.4	25.0	45.6%	14.9	25.0	59.6%	26.6%

Results reported in $\mu\text{g/L}$

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: LCS-070204
LAB CONTROL

Lab Sample ID: LCS-070204
LIMS ID: 04-10337
Matrix: Water
Data Release Authorized: 
Reported: 07/14/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted: 07/02/04
Date Analyzed: 07/13/04 14:28
Instrument/Analyst: NT6/Van
GPC Cleanup: NO

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

Analyte	Lab Control	Spike Added	Recovery
Phenol	22.0	37.5	58.7%
2-Chlorophenol	21.3	37.5	56.8%
1,4-Dichlorobenzene	10.5	25.0	42.0%
N-Nitroso-Di-N-Propylamine	15.1	25.0	60.4%
1,2,4-Trichlorobenzene	10.9	25.0	43.6%
4-Chloro-3-methylphenol	23.3	37.5	62.1%
Acenaphthene	14.9	25.0	59.6%
4-Nitrophenol	25.6	37.5	68.3%
2,4-Dinitrotoluene	15.4	25.0	61.6%
Pentachlorophenol	26.7	37.5	71.2%
Pyrene	17.9	25.0	71.6%
1,4-Dioxane	12.1	25.0	48.4%

Semivolatile Surrogate Recovery

d5-Nitrobenzene	73.5%
2-Fluorobiphenyl	70.7%
d14-p-Terphenyl	88.5%
d4-1,2-Dichlorobenzene	60.3%
d5-Phenol	74.6%
2-Fluorophenol	71.5%
2,4,6-Tribromophenol	81.5%
d4-2-Chlorophenol	75.9%
d8-1,4-Dioxane	61.8%

Results reported in $\mu\text{g/L}$

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

GU59MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: WINDWARD ENVIRONMENTAL

Lab Code: GU26

Project: LDW-SEEP SAMPLING

SDG No.: GU26

Lab File ID: GU59MB

Lab Sample ID: GU59MBW1

Instrument ID: NT6

Date Extracted: 07/02/04

Matrix: (soil/water) WATER

Date Analyzed: 07/13/04

Level: (low/med) LOW

Time Analyzed: 1356


THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
01	GU59LCSW1	GU59LCSW1	GU59SB	07/13/04
02	LDW-SP-10-C-F	GU59A	GU59A	07/13/04
03	LDW-SP-12-C-F	GU59B	GU59B	07/13/04
04	LDW-SP-20-C-F	GU59C	GU59C	07/13/04
05	LDW-SP-41-C-F	GU59D	GU59D	07/13/04
06	LDW-SP-41-C-F MS	GU59DMS	GU59DMS	07/13/04
07	LDW-SP-41-C-F MS	GU59DMSD	GU59DMSD	07/13/04
08	LDW-SP-12-C-U	GU59E	GU59E	07/13/04
09	LDW-SP-20-C-U	GU59F	GU59F	07/13/04
10	LDW-SP-41-C-U	GU59G	GU59G	07/13/04
11	LDW-SP-41-C-U MS	GU59GMS	GU59GMS	07/13/04
12	LDW-SP-41-C-U MS	GU59GMSD	GU59GMSD	07/13/04
13	LDW-SP-39-C-F	GU59H	GU59H	07/13/04
14	LDW-SP-80-C-F	GU59I	GU59I	07/13/04
15	LDW-SP-39-C-U	GU59J	GU59J	07/13/04
16	LDW-SP-80-C-U	GU59K	GU59K	07/13/04
17	LDW-SP-71-C-F	GU26A	GU26A	07/14/04
18	LDW-SP-71-C-U	GU26B	GU26B	07/14/04
19	LDW-SP-76-C-F	GU26C	GU26C	07/14/04
20	LDW-SP-76-C-U	GU26D	GU26D	07/14/04
21	LDW-SP-69-C-F	GU26E	GU26E	07/14/04
22	LDW-SP-69-C-U	GU26F	GU26F	07/14/04
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: MB-070204
METHOD BLANK

Lab Sample ID: MB-070204
LIMS ID: 04-10337
Matrix: Water
Data Release Authorized: 
Reported: 07/15/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: NA
Date Received: NA

Date Extracted: 07/02/04
Date Analyzed: 07/13/04 13:56
Instrument/Analyst: NT6/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2.0	< 2.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	2.0	< 2.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	2.0	< 2.0 U
67-72-1	Hexachloroethane	2.0	< 2.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	3.0	< 3.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	3.0	< 3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	3.0	< 3.0 U
87-68-3	Hexachlorobutadiene	2.0	< 2.0 U
59-50-7	4-Chloro-3-methylphenol	2.0	< 2.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	6.0	< 6.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	25	< 25 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
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Sample ID: MB-070204
METHOD BLANK

Lab Sample ID: MB-070204
LIMS ID: 04-10337
Matrix: Water
Date Analyzed: 07/13/04 13:56

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15	< 15 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo (a) anthracene	1.0	< 1.0 U
117-81-7	bis (2-Ethylhexyl) phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo (b) fluoranthene	1.0	< 1.0 U
207-08-9	Benzo (k) fluoranthene	1.0	< 1.0 U
50-32-8	Benzo (a) pyrene	1.0	< 1.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	< 1.0 U
53-70-3	Dibenz (a, h) anthracene	1.0	< 1.0 U
191-24-2	Benzo (g, h, i) perylene	1.0	< 1.0 U
123-91-1	1,4-Dioxane	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	80.0%	2-Fluorobiphenyl	71.6%
d14-p-Terphenyl	88.0%	d4-1,2-Dichlorobenzene	58.4%
d5-Phenol	75.1%	2-Fluorophenol	75.5%
2,4,6-Tribromophenol	79.7%	d4-2-Chlorophenol	79.1%
d8-1,4-Dioxane	62.8%		

Manchester Pesticides

000158

SW8081/PESTICIDE WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

<u>Client ID</u>	<u>DCBP</u>	<u>TCMX</u>	<u>TOT OUT</u>
MB-070704	80.8%	40.8%	0
LCS-070704	71.5%	42.2%	0
LDW-SP-48-C-U	67.8%	68.0%	0
LDW-SP-48-C-F	86.2%	71.8%	0
LDW-SP-54-C-U	95.0%	85.0%	0
LDW-SP-54-C-F	74.8%	53.0%	0
LDW-SP-82-C-U	58.8%	59.5%	0
LDW-SP-82-C-F	52.0%	57.8%	0
LDW-SP-82-C-FD-U	44.2%	34.5%	0
LDW-SP-82-C-FD-F	57.8%	53.2%	0

**** PROJECT SPECIFIED LIMITS ****

LCS/MB LIMITS

QC LIMITS

(DCBP) = Decachlorobiphenyl
(TCMX) = Tetrachlorometaxylene

(30-160)
(30-160)

(30-160)
(30-160)

Prep Method: Manchester
Log Number Range: 04-10230 to 04-10237

SW8081/PESTICIDE WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU76-Windward Environmental
Project: LDW-SEEP SAMPLING

<u>Client ID</u>	<u>DCBP</u>	<u>TCMX</u>	<u>TOT OUT</u>
MB-070704	80.8%	40.8%	0
LCS-070704	71.5%	42.2%	0
LDW-SP-62-C-F	52.0%	39.0%	0
LDW-SP-61-C-U	79.0%	44.5%	0
LDW-SP-61-C-F	57.2%	62.8%	0

**** PROJECT SPECIFIED LIMITS ****

LCS/MB LIMITS

QC LIMITS

(DCBP) = Decachlorobiphenyl
(TCMX) = Tetrachlorometaxylene

(30-160)
(30-160)

(30-160)
(30-160)

Prep Method: Manchester
Log Number Range: 04-10430 to 04-10432

SW8081/PESTICIDE WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

<u>Client ID</u>	<u>DCBP</u>	<u>TCMX</u>	<u>TOT OUT</u>
MB-070704	80.8%	40.8%	0
LCS-070704	71.5%	42.2%	0
LDW-SP-75-C-U	48.2%	41.0%	0
LDW-SP-75-C-U MS	55.2%	54.5%	0
LDW-SP-75-C-U MSD	45.5%	44.8%	0
LDW-SP-75-C-F	50.0%	45.2%	0
LDW-SP-64-RB-S-U	62.8%	78.5%	0
LDW-SP-64-RB-MP-U	38.5%	51.5%	0
LDW-SP-64-C-F	49.2%	49.2%	0

**** PROJECT SPECIFIED LIMITS ****

LCS/MB LIMITS

QC LIMITS

(DCBP) = Decachlorobiphenyl

(30-160)

(30-160)

(TCMX) = Tetrachlorometaxylene

(30-160)

(30-160)

Prep Method: Manchester

Log Number Range: 04-10461 to 04-10466

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-48-C-U
SAMPLE

Lab Sample ID: GU45A

LIMS ID: 04-10230

Matrix: Water

Data Release Authorized:

Reported: 08/04/04

QC Report No: GU45-Windward Environmental

Project: LDW Seep Sampling

Date Sampled: 06/30/04

Date Received: 06/30/04

Date Extracted: 07/07/04

Date Analyzed: 07/13/04 17:24

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: No

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 6.5

Florisil Cleanup: No

Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.0021	< 0.0021 Y
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	67.8%
Tetrachlorometaxylene	68.0%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-48-C-F

SAMPLE

Lab Sample ID: GU45B

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10231

Project: LDW Seep Sampling

Matrix: Water

Data Release Authorized:

Date Sampled: 06/30/04

Reported: 08/04/04

Date Received: 06/30/04

Date Extracted: 07/07/04

Sample Amount: 3000 mL

Date Analyzed: 07/13/04 17:58

Final Extract Volume: 0.50 mL

Instrument/Analyst: ECD4/YZ

Dilution Factor: 1.00

GPC Cleanup: No

pH: 6.8

Sulfur Cleanup: No

Florisil Cleanup: No

Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.0090	< 0.0090 Y
319-86-8	delta-BHC	0.0029	< 0.0029 Y
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	86.2%
Tetrachlorometaxylene	71.8%

000163

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

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Sample ID: LDW-SP-54-C-U

SAMPLE

Lab Sample ID: GU45C

LIMS ID: 04-10232

Matrix: Water

Data Release Authorized: 

Reported: 07/20/04

QC Report No: GU45-Windward Environmental

Project: LDW Seep Sampling

Date Sampled: 06/30/04

Date Received: 06/30/04

Date Extracted: 07/07/04

Date Analyzed: 07/14/04 10:26

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 10.0

pH: 7.8

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.0083	< 0.0083 U
319-85-7	beta-BHC	0.0083	< 0.0083 U
319-86-8	delta-BHC	0.0083	< 0.0083 U
58-89-9	gamma-BHC (Lindane)	0.0083	< 0.0083 U
76-44-8	Heptachlor	0.0083	< 0.0083 U
309-00-2	Aldrin	0.0083	< 0.0083 U
1024-57-3	Heptachlor Epoxide	0.0083	< 0.0083 U
959-98-8	Endosulfan I	0.0083	< 0.0083 U
60-57-1	Dieldrin	0.11	< 0.11 Y
72-55-9	4,4'-DDE	0.17	< 0.17 Y
72-20-8	Endrin	0.057	< 0.057 Y
33213-65-9	Endosulfan II	0.26	< 0.26 Y
72-54-8	4,4'-DDD	0.18	< 0.18 Y
1031-07-8	Endosulfan Sulfate	0.017	< 0.017 U
50-29-3	4,4'-DDT	0.017	< 0.017 U
72-43-5	Methoxychlor	0.083	< 0.083 U
53494-70-5	Endrin Ketone	0.017	< 0.017 U
7421-93-4	Endrin Aldehyde	0.061	< 0.061 Y
5103-74-2	gamma Chlordane	0.0083	< 0.0083 U
5103-71-9	alpha Chlordane	0.0083	< 0.0083 U
8001-35-2	Toxaphene	0.83	< 0.83 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	95.0%
Tetrachlorometaxylene	85.0%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD


Page 1 of 1

Sample ID: LDW-SP-54-C-F
SAMPLE

Lab Sample ID: GU45D

LIMS ID: 04-10233

Matrix: Water

Data Release Authorized: 

Reported: 07/20/04

QC Report No: GU45-Windward Environmental

Project: LDW Seep Sampling

Date Sampled: 06/30/04

Date Received: 06/30/04

Date Extracted: 07/07/04

Date Analyzed: 07/14/04 12:06

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 8.5

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.016	< 0.016 Y
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0095	< 0.0095 Y
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.011	< 0.011 Y
72-54-8	4,4'-DDD	0.021	< 0.021 Y
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.0018	< 0.0018 Y
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	74.8%
Tetrachlorometaxylene	53.0%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-82-C-U
SAMPLE

Lab Sample ID: GU45E

LIMS ID: 04-10234

Matrix: Water

Data Release Authorized: *AB*

Reported: 07/20/04

QC Report No: GU45-Windward Environmental

Project: LDW Seep Sampling

Date Sampled: 06/30/04

Date Received: 06/30/04

Date Extracted: 07/07/04

Date Analyzed: 07/13/04 19:40

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 7.4

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	58.8%
Tetrachlorometaxylene	59.5%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1



Sample ID: LDW-SP-82-C-F
SAMPLE

Lab Sample ID: GU45F

LIMS ID: 04-10235

Matrix: Water

Data Release Authorized:

Reported: 08/04/04

QC Report No: GU45-Windward Environmental

Project: LDW Seep Sampling

Date Sampled: 06/30/04

Date Received: 06/30/04

Date Extracted: 07/07/04

Date Analyzed: 07/13/04 20:14

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: No

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 7.3

Florisil Cleanup: No

Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.0039	< 0.0039 Y
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in µg/L (ppb)


Pest/PCB Surrogate Recovery

Decachlorobiphenyl	52.0%
Tetrachlorometaxylene	57.8%

000167

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD
Page 1 of 1

Sample ID: LDW-SP-82-C-FD-U
SAMPLE

Lab Sample ID: GU45G
LIMS ID: 04-10236
Matrix: Water
Data Release Authorized: 
Reported: 07/20/04

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

Date Sampled: 06/30/04
Date Received: 06/30/04

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
pH: 7.0
Florisil Cleanup: No
Silica Gel: Yes

Date Extracted: 07/07/04
Date Analyzed: 07/13/04 20:48
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	44.2%
Tetrachlorometaxylene	34.5%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1


Sample ID: LDW-SP-82-C-FD-F

SAMPLE

Lab Sample ID: GU45H

LIMS ID: 04-10237

Matrix: Water

Data Release Authorized: 

Reported: 07/20/04

QC Report No: GU45-Windward Environmental

Project: LDW Seep Sampling

Date Sampled: 06/30/04

Date Received: 06/30/04

Date Extracted: 07/07/04

Date Analyzed: 07/13/04 21:22

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: No

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 7.1

Florisil Cleanup: No

Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	57.8%
Tetrachlorometaxylene	53.2%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-62-C-F

SAMPLE

Lab Sample ID: GU76A

LIMS ID: 04-10430

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 08/04/04

QC Report No: GU76-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/02/04

Date Received: 07/02/04

Date Extracted: 07/07/04

Date Analyzed: 07/14/04 00:47

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: No

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 7.4

Florisil Cleanup: No

Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.012	< 0.012 Y
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.0017	< 0.0017 Y
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	52.0%
Tetrachlorometaxylene	39.0%

000170

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-61-C-U

SAMPLE

Lab Sample ID: GU76B

LIMS ID: 04-10431

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 07/20/04

QC Report No: GU76-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/02/04

Date Received: 07/02/04

Date Extracted: 07/07/04

Date Analyzed: 07/14/04 01:21

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 2500 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 7.3

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.0010	< 0.0010 U
319-85-7	beta-BHC	0.0010	< 0.0010 U
319-86-8	delta-BHC	0.0010	< 0.0010 U
58-89-9	gamma-BHC (Lindane)	0.0010	< 0.0010 U
76-44-8	Heptachlor	0.0010	< 0.0010 U
309-00-2	Aldrin	0.0010	< 0.0010 U
1024-57-3	Heptachlor Epoxide	0.0010	< 0.0010 U
959-98-8	Endosulfan I	0.0010	< 0.0010 U
60-57-1	Dieldrin	0.027	< 0.027 Y
72-55-9	4,4'-DDE	0.038	< 0.038 Y
72-20-8	Endrin	0.0020	< 0.0020 U
33213-65-9	Endosulfan II	0.0020	< 0.0020 U
72-54-8	4,4'-DDD	0.0020	< 0.0020 U
1031-07-8	Endosulfan Sulfate	0.0020	< 0.0020 U
50-29-3	4,4'-DDT	0.0020	< 0.0020 U
72-43-5	Methoxychlor	0.010	< 0.010 U
53494-70-5	Endrin Ketone	0.0020	< 0.0020 U
7421-93-4	Endrin Aldehyde	0.0020	< 0.0020 U
5103-74-2	gamma Chlordane	0.0010	< 0.0010 U
5103-71-9	alpha Chlordane	0.0010	< 0.0010 U
8001-35-2	Toxaphene	0.10	< 0.10 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	79.0%
Tetrachlorometaxylene	44.5%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-61-C-F

SAMPLE

Lab Sample ID: GU76C

LIMS ID: 04-10432

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 08/04/04

QC Report No: GU76-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/02/04

Date Received: 07/02/04

Date Extracted: 07/07/04

Date Analyzed: 07/14/04 13:48

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: No

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 7.5

Florisil Cleanup: No

Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 Y
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.058	< 0.058 Y
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0049	< 0.0049 Y
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.038	< 0.038 Y
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	57.2%
Tetrachlorometaxylene	62.8%

000172

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-75-C-U
SAMPLE

Lab Sample ID: GU83A

LIMS ID: 04-10461

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 08/04/04

QC Report No: GU83-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/03/04

Date Received: 07/03/04

Date Extracted: 07/07/04

Date Analyzed: 07/14/04 14:22

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: No

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 7.2

Florisil Cleanup: No

Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.0019	< 0.0019 Y
319-86-8	delta-BHC	0.0049	< 0.0049 Y
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	48.2%
Tetrachlorometaxylene	41.0%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-75-C-U

MATRIX SPIKE

Lab Sample ID: GU83A

LIMS ID: 04-10461

Matrix: Water

Data Release Authorized:

Reported: 11/02/04

QC Report No: GU83-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/03/04

Date Received: 07/03/04

Date Extracted: 07/07/04

Date Analyzed: 07/14/04 03:03

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: No

Sample Amount: 1560 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 7.2

Florisil Cleanup: No

Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.0016	< 0.0016 U
319-85-7	beta-BHC	0.0039	< 0.0039 Y
319-86-8	delta-BHC	0.0068	< 0.0068 Y
58-89-9	gamma-BHC (Lindane)	0.0016	---
76-44-8	Heptachlor	0.0016	---
309-00-2	Aldrin	0.0016	---
1024-57-3	Heptachlor Epoxide	0.0016	< 0.0016 U
959-98-8	Endosulfan I	0.0016	< 0.0016 U
60-57-1	Dieldrin	0.0032	---
72-55-9	4,4'-DDE	0.0032	< 0.0032 U
72-20-8	Endrin	0.0032	---
33213-65-9	Endosulfan II	0.0032	< 0.0032 U
72-54-8	4,4'-DDD	0.0032	< 0.0032 U
1031-07-8	Endosulfan Sulfate	0.0032	< 0.0032 U
50-29-3	4,4'-DDT	0.0032	---
72-43-5	Methoxychlor	0.016	< 0.016 U
53494-70-5	Endrin Ketone	0.0032	< 0.0032 U
7421-93-4	Endrin Aldehyde	0.058	< 0.058 Y
5103-74-2	gamma Chlordane	0.0045	< 0.0045 Y
5103-71-9	alpha Chlordane	0.0016	< 0.0016 U
8001-35-2	Toxaphene	0.16	< 0.16 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	55.2%
Tetrachlorometaxylene	54.5%

Sample ID: LDW-SP-75-C-U
MATRIX SPIKE DUP

Lab Sample ID: GU83A
LIMS ID: 04-10461
Matrix: Water
Data Release Authorized:
Reported: 11/02/04

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/03/04
Date Received: 07/03/04

Date Extracted: 07/07/04
Date Analyzed: 07/14/04 03:37
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 1560 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
pH: 7.2
Florisil Cleanup: No
Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.0016	< 0.0016 U
319-85-7	beta-BHC	0.0089	< 0.0089 Y
319-86-8	delta-BHC	0.0016	< 0.0016 U
58-89-9	gamma-BHC (Lindane)	0.0016	---
76-44-8	Heptachlor	0.0016	---
309-00-2	Aldrin	0.0016	---
1024-57-3	Heptachlor Epoxide	0.0016	< 0.0016 U
959-98-8	Endosulfan I	0.0016	< 0.0016 U
60-57-1	Dieldrin	0.0032	---
72-55-9	4,4'-DDE	0.0032	< 0.0032 U
72-20-8	Endrin	0.0032	---
33213-65-9	Endosulfan II	0.0032	< 0.0032 U
72-54-8	4,4'-DDD	0.0032	< 0.0032 U
1031-07-8	Endosulfan Sulfate	0.0032	< 0.0032 U
50-29-3	4,4'-DDT	0.0032	---
72-43-5	Methoxychlor	0.016	< 0.016 U
53494-70-5	Endrin Ketone	0.0032	< 0.0032 U
7421-93-4	Endrin Aldehyde	0.0032	< 0.0032 U
5103-74-2	gamma Chlordane	0.0043	< 0.0043 Y
5103-71-9	alpha Chlordane	0.0016	< 0.0016 U
8001-35-2	Toxaphene	0.16	< 0.16 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	45.5%
Tetrachlorometaxylene	44.8%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD


Page 1 of 1

Sample ID: LDW-SP-75-C-F
SAMPLE

Lab Sample ID: GU83B

LIMS ID: 04-10462

Matrix: Water

Data Release Authorized: 

Reported: 08/04/04

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/03/04

Date Received: 07/03/04

Date Extracted: 07/07/04

Date Analyzed: 07/14/04 14:56

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: No

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 7.3

Florisil Cleanup: No

Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.013	< 0.013 Y
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.0018	< 0.0018 Y
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	50.0%
Tetrachlorometaxylene	45.2%

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD
Page 1 of 1

Sample ID: LDW-SP-64-RB-S-U
SAMPLE

Lab Sample ID: GU83C
LIMS ID: 04-10463
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 07/20/04

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/03/04
Date Received: 07/03/04

Date Extracted: 07/07/04
Date Analyzed: 07/14/04 04:45
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
pH: 7.9
Florisil Cleanup: No
Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.0020	< 0.0020 Y
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	62.8%
Tetrachlorometaxylene	78.5%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-64-RB-MP-U

SAMPLE

Lab Sample ID: GU83D

QC Report No: GU83-Windward Environmental

LIMS ID: 04-10464

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized:

Date Sampled: 07/03/04

Reported: 07/20/04

Date Received: 07/03/04

Date Extracted: 07/07/04

Sample Amount: 3000 mL

Date Analyzed: 07/14/04 05:19

Final Extract Volume: 0.50 mL

Instrument/Analyst: ECD4/YZ

Dilution Factor: 1.00

GPC Cleanup: No

pH: 7.1

Sulfur Cleanup: No

Florisil Cleanup: No

Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	0.0035
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.0026	< 0.0026 Y
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	38.5%
Tetrachlorometaxylene	51.5%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-64-C-F
SAMPLE

Lab Sample ID: GU83F

LIMS ID: 04-10466

Matrix: Water

Data Release Authorized: *BB*

Reported: 07/20/04

QC Report No: GU83-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/02/04

Date Received: 07/03/04

Date Extracted: 07/07/04

Date Analyzed: 07/14/04 05:53

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 6.3

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	49.2%
Tetrachlorometaxylene	49.2%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-75-C-U
MS/MSD

Lab Sample ID: GU83A

LIMS ID: 04-10461

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 07/20/04

QC Report No: GU83-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/03/04

Date Received: 07/03/04

Date Extracted MS/MSD: 07/07/04

Sample Amount MS: 1560 mL

MSD: 1560 mL

Date Analyzed MS: 07/14/04 03:03

Final Extract Volume MS: 0.5 mL

MSD: 07/14/04 03:37

MSD: 0.5 mL

Instrument/Analyst MS: ECD4/YZ

Dilution Factor MS: 1.00

MSD: ECD4/YZ

MSD: 1.00

GPC Cleanup: No

Sulfur Cleanup: Yes

Florisil Cleanup: No

Silica Gel: Yes

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
gamma-BHC (Lindane)	< 0.0008	0.00862	0.0160	53.9%	0.00795	0.0160	49.7%	8.1%
Heptachlor	< 0.0008	0.0118	0.0160	73.8%	0.0113	0.0160	70.6%	4.3%
Aldrin	< 0.0008	0.0127	0.0160	79.4%	0.00878	0.0160	54.9%	36.5%
Dieldrin	< 0.0016	0.0254	0.0321	79.1%	0.0233	0.0321	72.6%	8.6%
Endrin	< 0.0016	0.0349	0.0321	109%	0.0285	0.0321	88.8%	20.2%
4,4'-DDT	< 0.0016	0.0286	0.0321	89.1%	0.0217	0.0321	67.6%	27.4%

Results reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1


Sample ID: LCS-070704

LAB CONTROL

Lab Sample ID: LCS-070704

LIMS ID: 04-10230

Matrix: Water

Data Release Authorized: 

Reported: 07/20/04

QC Report No: GU45-Windward Environmental

Project: LDW Seep Sampling

Date Sampled: 06/30/04

Date Received: 06/30/04

Date Extracted: 07/07/04

Date Analyzed: 07/13/04 16:16

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Florisil Cleanup: No

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

Sulfur Cleanup: Yes

Silica Gel: Yes

Analyte	Lab Control	Spike Added	Recovery
alpha-BHC	0.00258	0.00333	77.5%
beta-BHC	0.00497	0.00333	149%
delta-BHC	0.00283	0.00333	85.0%
gamma-BHC (Lindane)	0.00253	0.00333	76.0%
Heptachlor	0.00250	0.00333	75.1%
Aldrin	0.00200	0.00333	60.1%
Heptachlor Epoxide	0.00317	0.00333	95.2%
Endosulfan I	0.00292	0.00333	87.7%
Dieldrin	0.00585	0.00667	87.7%
4,4'-DDE	0.00687	0.00667	103%
Endrin	0.00665	0.00667	99.7%
Endosulfan II	0.00598	0.00667	89.7%
4,4'-DDD	0.00670	0.00667	100%
Endosulfan Sulfate	0.00572	0.00667	85.8%
4,4'-DDT	0.00705	0.00667	106%
Methoxychlor	0.0345	0.0333	104%
Endrin Ketone	0.00507	0.00667	76.0%
Endrin Aldehyde	0.00285	0.00667	42.7%
gamma Chlordane	0.00302	0.00333	90.7%
alpha Chlordane	0.00285	0.00333	85.6%

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	71.5%
Tetrachlorometaxylene	42.2%

Results reported in $\mu\text{g/L}$ (ppb)

FORM 4
PCB METHOD BLANK SUMMARY

SAMPLE NO.

GU45MBW7/7

Lab Name: ANALYTICAL RESOURCES, INC

Client: WINDWARD ENVIRONMENTAL

ARI Job No.: GU45/GU76/GU83

Project: LDW-SEEP SAMPLING

Lab Sample ID: GU45MBW7/7

Lab File ID: 0713-06R

Matrix (soil/water) WATER

Extraction: (SepF/Cont/Sonc) OTHER

Sulfur Cleanup (Y/N) Y

Date Extracted: 07/09/04

Date Analyzed (1): 07/13/04

Date Analyzed (2): 07/13/04

Time Analyzed (1): 1542

Time Analyzed (2): 1542

Instrument ID (1): ECD4

Instrument ID (2): ECD4

GC Column (1): RTX-CLP1 ID: 0.53 (mm) GC Column (2): RTX-CLP2 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	GU45SBW7/7	GU45SBW1	07/13/04	07/13/04
02	LDW-SP-48-CU	GU45A	07/13/04	07/13/04
03	LDW-SP-48-CF	GU45B	07/13/04	07/13/04
04	LDW-SP-82-CU	GU45E	07/13/04	07/13/04
05	LDW-SP-82-CF	GU45F	07/13/04	07/13/04
06	LDW-SP82CFDU	GU45G	07/13/04	07/13/04
07	LDW-SP82CFDF	GU45H	07/13/04	07/13/04
08	LDW-SP-62-CF	GU76A	07/14/04	07/14/04
09	LDW-SP-61-CU	GU76B	07/14/04	07/14/04
10	LDW-SP-75-CU	GU83AMS	07/14/04	07/14/04
11	LDW-SP-75-CU	GU83AMSD	07/14/04	07/14/04
12	LDW-SP64RBSU	GU83C	07/14/04	07/14/04
13	LDW-SP64RBMP	GU83D	07/14/04	07/14/04
14	LDW-SP-64-CF	GU83F	07/14/04	07/14/04
15	LDW-SP-54-CU	GU45C10X	07/14/04	07/14/04
16	LDW-SP-54-CF	GU45D	07/14/04	07/14/04
17	LDW-SP-61-CF	GU76C	07/14/04	07/14/04
18	LDW-SP-75-CU	GU83A	07/14/04	07/14/04
19	LDW-SP-75-CF	GU83B	07/14/04	07/14/04

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: MB-070704

METHOD BLANK

Lab Sample ID: MB-070704

LIMS ID: 04-10230

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 07/20/04

QC Report No: GU45-Windward Environmental

Project: LDW Seep Sampling

Date Sampled: NA

Date Received: NA

Date Extracted: 07/07/04

Date Analyzed: 07/13/04 15:42

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: NA

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	80.8%
Tetrachlorometaxylene	40.8%

SW8081/PESTICIDE WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

<u>Client ID</u>	<u>DCBP</u>	<u>TCMX</u>	<u>TOT OUT</u>
MB-070204	75.8%	32.0%	0
LCS-070204	74.0%	31.8%	0
LDW-SP-10-C-F	63.8%	32.5%	0
LDW-SP-12-C-F	63.8%	48.8%	0
LDW-SP-20-C-F	66.0%	44.5%	0
LDW-SP-41-C-F	85.0%	59.5%	0
LDW-SP-41-C-F MS	71.5%	86.2%	0
LDW-SP-41-C-F MSD	68.8%	81.5%	0
LDW-SP-12-C-U	58.0%	42.8%	0
LDW-SP-20-C-U	66.2%	48.5%	0
LDW-SP-41-C-U	72.2%	76.2%	0
LDW-SP-39-C-F	69.2%	75.5%	0
LDW-SP-80-C-F	66.2%	67.5%	0
LDW-SP-39-C-U	59.2%	62.8%	0
LDW-SP-80-C-U	59.5%	35.0%	0

**** PROJECT SPECIFIED LIMITS ****

LCS/MB LIMITS

QC LIMITS

(DCBP) = Decachlorobiphenyl
(TCMX) = Tetrachlorometaxylene

(30-160)
(30-160)

(30-160)
(30-160)

Prep Method: Manchester
Log Number Range: 04-10337 to 04-10347

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1


Sample ID: LDW-SP-10-C-F

SAMPLE

Lab Sample ID: GU59A

LIMS ID: 04-10337

Matrix: Water

Data Release Authorized: 

Reported: 07/16/04

QC Report No: GU59-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Date Analyzed: 07/09/04 18:45

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 7.1

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	63.8%
Tetrachlorometaxylene	32.5%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-12-C-F

SAMPLE

Lab Sample ID: GU59B

LIMS ID: 04-10338

Matrix: Water

Data Release Authorized:

Reported: 07/16/04

QC Report No: GU59-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Date Analyzed: 07/09/04 19:19

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 6.5

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)


Pest/PCB Surrogate Recovery

Decachlorobiphenyl	63.8%
Tetrachlorometaxylene	48.8%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD
Page 1 of 1

Sample ID: LDW-SP-20-C-F
SAMPLE

Lab Sample ID: GU59C
LIMS ID: 04-10339
Matrix: Water
Data Release Authorized: 
Reported: 08/04/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted: 07/02/04
Date Analyzed: 07/09/04 19:53
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
pH: 8.4
Florisil Cleanup: No
Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.0092	< 0.0092 Y
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.0040	< 0.0040 Y
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	66.0%
Tetrachlorometaxylene	44.5%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-41-C-F
SAMPLE

Lab Sample ID: GU59D

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10340

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Sampled: 07/01/04

Data Release Authorized: *[Signature]*

Date Received: 07/01/04

Reported: 07/16/04

Date Extracted: 07/02/04

Sample Amount: 3000 mL

Date Analyzed: 07/09/04 23:18

Final Extract Volume: 0.50 mL

Instrument/Analyst: ECD4/YZ

Dilution Factor: 1.00

GPC Cleanup: No

pH: 6.5

Sulfur Cleanup: No

Florisil Cleanup: No

Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.0070	< 0.0070 Y
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.0054	< 0.0054 Y
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	85.0%
Tetrachlorometaxylene	59.5%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-41-C-F

MATRIX SPIKE

Lab Sample ID: GU59D

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10340

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: *[Signature]*

Date Sampled: 07/01/04

Reported: 08/04/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Sample Amount: 3000 mL

Date Analyzed: 07/09/04 23:52

Final Extract Volume: 0.50 mL

Instrument/Analyst: ECD4/YZ

Dilution Factor: 1.00

GPC Cleanup: No

pH: 6.5

Sulfur Cleanup: No

Florisil Cleanup: No

Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.0036	< 0.0036 Y
58-89-9	gamma-BHC (Lindane)	0.00083	---
76-44-8	Heptachlor	0.00083	---
309-00-2	Aldrin	0.00083	---
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	---
72-55-9	4,4'-DDE	0.0036	< 0.0036 Y
72-20-8	Endrin	0.0017	---
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	---
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	71.5%
Tetrachlorometaxylene	86.2%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-41-C-F
MATRIX SPIKE DUP

Lab Sample ID: GU59D

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

LIMS ID: 04-10340

Matrix: Water

Data Release Authorized:

Date Sampled: 07/01/04

Reported: 07/16/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Sample Amount: 3000 mL

Date Analyzed: 07/10/04 00:26

Final Extract Volume: 0.50 mL

Instrument/Analyst: ECD4/YZ

Dilution Factor: 1.00

GPC Cleanup: No

pH: 6.5

Sulfur Cleanup: No

Florisil Cleanup: No

Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.0032	< 0.0032 Y
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	---
76-44-8	Heptachlor	0.00083	---
309-00-2	Aldrin	0.00083	---
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	---
72-55-9	4,4'-DDE	0.0040	< 0.0040 Y
72-20-8	Endrin	0.0017	---
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	---
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	68.8%
Tetrachlorometaxylene	81.5%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-12-C-U

SAMPLE

Lab Sample ID: GU59E

LIMS ID: 04-10341

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 07/16/04

QC Report No: GU59-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Date Analyzed: 07/10/04 01:00

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 7.2

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	58.0%
Tetrachlorometaxylene	42.8%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-20-C-U
SAMPLE

Lab Sample ID: GU59F

QC Report No: GU59-Windward Environmental

LIMS ID: 04-10342

Project: LDW-SEEP SAMPLING

Matrix: Water

Date Sampled: 07/01/04

Data Release Authorized:

Date Received: 07/01/04

Reported: 07/16/04

Date Extracted: 07/02/04

Sample Amount: 3000 mL

Date Analyzed: 07/10/04 01:34

Final Extract Volume: 0.50 mL

Instrument/Analyst: ECD4/YZ

Dilution Factor: 1.00

GPC Cleanup: No

pH: 7.8

Sulfur Cleanup: Yes

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	66.2%
Tetrachlorometaxylene	48.5%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1


Sample ID: LDW-SP-41-C-U

SAMPLE

Lab Sample ID: GU59G

LIMS ID: 04-10343

Matrix: Water

Data Release Authorized: 

Reported: 08/04/04

QC Report No: GU59-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Date Analyzed: 07/10/04 02:08

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: No

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 6.2

Florisil Cleanup: No

Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.0039	< 0.0039 Y
319-85-7	beta-BHC	0.0026	< 0.0026 Y
319-86-8	delta-BHC	0.0066	< 0.0066 Y
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	72.2%
Tetrachlorometaxylene	76.2%

000193

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1


Sample ID: LDW-SP-39-C-F

SAMPLE

Lab Sample ID: GU59H

LIMS ID: 04-10344

Matrix: Water

Data Release Authorized: 

Reported: 08/04/04

QC Report No: GU59-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Date Analyzed: 07/10/04 03:50

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: No

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 6.8

Florisil Cleanup: No

Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.0051	< 0.0051 Y
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	0.0090
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	69.2%
Tetrachlorometaxylene	75.5%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-80-C-F

SAMPLE

Lab Sample ID: GU59I

LIMS ID: 04-10345

Matrix: Water

Data Release Authorized: *AS*

Reported: 11/02/04

QC Report No: GU59-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Date Analyzed: 07/12/04 18:09

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 6.9

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	66.2%
Tetrachlorometaxylene	67.5%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1


Sample ID: LDW-SP-39-C-U

SAMPLE

Lab Sample ID: GU59J

LIMS ID: 04-10346

Matrix: Water

Data Release Authorized: 

Reported: 08/04/04

QC Report No: GU59-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Date Analyzed: 07/10/04 04:58

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: No

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 7.3

Florisil Cleanup: No

Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.0031	< 0.0031 Y
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	0.0076
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	59.2%
Tetrachlorometaxylene	62.8%

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: LDW-SP-80-C-U

SAMPLE

Lab Sample ID: GU59K

LIMS ID: 04-10347

Matrix: Water

Data Release Authorized:

Reported: 07/16/04

QC Report No: GU59-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Date Analyzed: 07/12/04 18:43

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: 8.1

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	59.5%
Tetrachlorometaxylene	35.0%

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD
Page 1 of 1

Sample ID: LDW-SP-41-C-F
MS/MSD

Lab Sample ID: GU59D
LIMS ID: 04-10340

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized:

Date Sampled: 07/01/04

Reported: 07/16/04

Date Received: 07/01/04

Date Extracted MS/MSD: 07/02/04

Sample Amount MS: 3000 mL

MSD: 3000 mL

Date Analyzed MS: 07/09/04 23:52

Final Extract Volume MS: 0.5 mL

MSD: 07/10/04 00:26

MSD: 0.5 mL

Instrument/Analyst MS: ECD4/YZ

Dilution Factor MS: 1.00

MSD: ECD4/YZ

MSD: 1.00

GPC Cleanup: No

Sulfur Cleanup: No

Florisil Cleanup: No

Silica Gel: No

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
gamma-BHC (Lindane)	< 0.0008	0.00527	0.0083	63.3%	0.00428	0.0083	51.4%	20.7%
Heptachlor	< 0.0008	0.00762	0.0083	91.5%	0.00690	0.0083	82.8%	9.9%
Aldrin	< 0.0008	0.00832	0.0083	99.9%	0.00693	0.0083	83.2%	18.2%
Dieldrin	< 0.0016	0.0131	0.0167	78.4%	0.0120	0.0167	71.9%	8.8%
Endrin	< 0.0016	0.0168	0.0167	101%	0.0149	0.0167	89.2%	12.0%
4,4'-DDT	< 0.0016	0.0140	0.0167	83.8%	0.0132	0.0167	79.0%	5.9%

Results reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD
Page 1 of 1



Sample ID: LCS-070204
LAB CONTROL

Lab Sample ID: LCS-070204
LIMS ID: 04-10337
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 07/16/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted: 07/02/04
Date Analyzed: 07/09/04 14:13
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Florisil Cleanup: No

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Sulfur Cleanup: Yes
Silica Gel: Yes

Analyte	Lab Control	Spike Added	Recovery
alpha-BHC	0.00200	0.00333	60.1%
beta-BHC	0.00233	0.00333	70.0%
delta-BHC	0.00267	0.00333	80.2%
gamma-BHC (Lindane)	0.00218	0.00333	65.5%
Heptachlor	0.00198	0.00333	59.5%
Aldrin	0.00177	0.00333	53.2%
Heptachlor Epoxide	0.00287	0.00333	86.2%
Endosulfan I	0.00258	0.00333	77.5%
Dieldrin	0.00543	0.00667	81.4%
4,4'-DDE	0.00575	0.00667	86.2%
Endrin	0.00607	0.00667	91.0%
Endosulfan II	0.00568	0.00667	85.2%
4,4'-DDD	0.00603	0.00667	90.4%
Endosulfan Sulfate	0.00560	0.00667	84.0%
4,4'-DDT	0.00663	0.00667	99.4%
Methoxychlor	0.0322	0.0333	96.7%
Endrin Ketone	0.00548	0.00667	82.2%
Endrin Aldehyde	0.00080	0.00667	12.0%
gamma Chlordane	0.00243	0.00333	73.0%
alpha Chlordane	0.00242	0.00333	72.7%

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	74.0%
Tetrachlorometaxylene	31.8%

Results reported in $\mu\text{g/L}$ (ppb)

ORGANICS ANALYSIS DATA SHEET

Pesticides/PCB by GC/ECD

Page 1 of 1

Sample ID: MB-070204

METHOD BLANK

Lab Sample ID: MB-070204

LIMS ID: 04-10337

Matrix: Water

Data Release Authorized:

Reported: 07/16/04

QC Report No: GU59-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: NA

Date Received: NA

Date Extracted: 07/02/04

Date Analyzed: 07/09/04 13:39

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

pH: NA

Florisil Cleanup: No

Silica Gel: Yes

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.00083	< 0.00083 U
319-85-7	beta-BHC	0.00083	< 0.00083 U
319-86-8	delta-BHC	0.00083	< 0.00083 U
58-89-9	gamma-BHC (Lindane)	0.00083	< 0.00083 U
76-44-8	Heptachlor	0.00083	< 0.00083 U
309-00-2	Aldrin	0.00083	< 0.00083 U
1024-57-3	Heptachlor Epoxide	0.00083	< 0.00083 U
959-98-8	Endosulfan I	0.00083	< 0.00083 U
60-57-1	Dieldrin	0.0017	< 0.0017 U
72-55-9	4,4'-DDE	0.0017	< 0.0017 U
72-20-8	Endrin	0.0017	< 0.0017 U
33213-65-9	Endosulfan II	0.0017	< 0.0017 U
72-54-8	4,4'-DDD	0.0017	< 0.0017 U
1031-07-8	Endosulfan Sulfate	0.0017	< 0.0017 U
50-29-3	4,4'-DDT	0.0017	< 0.0017 U
72-43-5	Methoxychlor	0.0083	< 0.0083 U
53494-70-5	Endrin Ketone	0.0017	< 0.0017 U
7421-93-4	Endrin Aldehyde	0.0017	< 0.0017 U
5103-74-2	gamma Chlordane	0.00083	< 0.00083 U
5103-71-9	alpha Chlordane	0.00083	< 0.00083 U
8001-35-2	Toxaphene	0.083	< 0.083 U

Reported in $\mu\text{g/L}$ (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	75.8%
Tetrachlorometaxylene	32.0%

FORM 4
PCB METHOD BLANK SUMMARY

SAMPLE NO.

GUMBW7/2

Lab Name: ANALYTICAL RESOURCES, INC

Client: WINDWARD ENVIRONMENTAL

ARI Job No.: GU59

Project: LDW-SEEP SAMPLING

Lab Sample ID: GU26MBW7/2

Lab File ID: 0709-08R

Matrix (soil/water) WATER

Extraction: (SepF/Cont/Sonc) OTHER

Sulfur Cleanup (Y/N) Y

Date Extracted: 07/02/04

Date Analyzed (1): 07/09/04

Date Analyzed (2): 07/09/04

Time Analyzed (1): 1339

Time Analyzed (2): 1339

Instrument ID (1): ECD4

Instrument ID (2): ECD4

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	GUSBW7/2	GU26SBW1	07/09/04	07/09/04
02	LDW-SP-10-CF	GU59A	07/09/04	07/09/04
03	LDW-SP-12-CF	GU59B	07/09/04	07/09/04
04	LDW-SP-20-CF	GU59C	07/09/04	07/09/04
05	LDW-SP-41-CF	GU59D	07/09/04	07/09/04
06	LDW-SP-41-CF	GU59DMS	07/09/04	07/10/04
07	LDW-SP-41-CF	GU59DMSD	07/10/04	07/09/04
08	LDW-SP-12-CU	GU59E	07/10/04	07/10/04
09	LDW-SP-20-CU	GU59F	07/10/04	07/10/04
10	LDW-SP-41-CU	GU59G	07/10/04	07/10/04
12	LDW-SP-39-CF	GU59H	07/10/04	07/10/04
13	LDW-SP-39-CU	GU59J	07/10/04	07/10/04
14	LDW-SP-80-CF	GU59I	07/12/04	07/12/04
15	LDW-SP-80-CU	GU59K	07/12/04	07/12/04

PCB

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

<u>Client ID</u>	<u>DCBP</u>	<u>TCMX</u>	<u>TOT OUT</u>
MB-070704	74.5%	40.8%	0
LCS-070704	46.5%	40.0%	0
LDW-SP-48-C-U	67.8%	68.0%	0
LDW-SP-48-C-F	63.8%	71.8%	0
LDW-SP-54-C-U	95.0%	85.0%	0
LDW-SP-54-C-U DL	D	D	0
LDW-SP-54-C-F	43.2%	52.2%	0
LDW-SP-82-C-U	45.5%	59.5%	0
LDW-SP-82-C-F	52.0%	57.8%	0
LDW-SP-82-C-FD-U	43.0%	34.5%	0
LDW-SP-82-C-FD-F	57.8%	53.2%	0

LCS/MB LIMITS QC LIMITS

(DCBP) = Decachlorobiphenyl (42-138) (25-134)
(TCMX) = Tetrachlorometaxylene (32-117) (25-118)

Prep Method: Manchester
Log Number Range: 04-10230 to 04-10237

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU76-Windward Environmental
Project: LDW-SEEP SAMPLING

<u>Client ID</u>	<u>DCBP</u>	<u>TCMX</u>	<u>TOT OUT</u>
MB-070704	74.5%	40.8%	0
LCS-070704	46.5%	40.0%	0
LDW-SP-62-C-F	45.8%	39.0%	0
LDW-SP-61-C-U	79.0%	44.5%	0
LDW-SP-61-C-F	57.2%	62.8%	0

LCS/MB LIMITS QC LIMITS

(DCBP) = Decachlorobiphenyl (42-138) (25-134)
(TCMX) = Tetrachlorometaxylene (32-117) (25-118)

Prep Method: Manchester
Log Number Range: 04-10430 to 04-10432

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

<u>Client ID</u>	<u>DCBP</u>	<u>TCMX</u>	<u>TOT OUT</u>
MB-070704	74.5%	40.8%	0
LCS-070704	46.5%	40.0%	0
LDW-SP-75-C-U	36.2%	41.0%	0
LDW-SP-75-C-F	50.0%	45.2%	0
LDW-SP-75-C-F MS	49.2%	36.5%	0
LDW-SP-75-C-F MSD	33.8%	36.5%	0
LDW-SP-64-RB-S-U	38.8%	48.8%	0
LDW-SP-64-RB-MP-U	25.5%	51.5%	0
LDW-SP-64-C-F	46.8%	49.2%	0

LCS/MB LIMITS QC LIMITS

(DCBP) = Decachlorobiphenyl (42-138) (25-134)
(TCMX) = Tetrachlorometaxylene (32-117) (25-118)

Prep Method: Manchester
Log Number Range: 04-10461 to 04-10466

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

<u>Client ID</u>	<u>DCBP</u>	<u>TCMX</u>	<u>TOT OUT</u>
MB-070904	78.8%	70.8%	0
LCS-070904	80.2%	71.8%	0
LDW-SP-64-C-U	61.2%	62.0%	0

LCS/MB LIMITS QC LIMITS

(DCBP) = Decachlorobiphenyl (42-138) (25-134)
(TCMX) = Tetrachlorometaxylene (32-117) (25-118)

Prep Method: SW3510C
Log Number Range: 04-10465 to 04-10465

Sample ID: LDW-SP-48-C-U
SAMPLE

Lab Sample ID: GU45A
LIMS ID: 04-10230
Matrix: Water
Data Release Authorized:
Reported: 11/02/04

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

Date Sampled: 06/30/04
Date Received: 06/30/04

Date Extracted: 07/07/04
Date Analyzed: 07/13/04 17:24
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	67.8%
Tetrachlorometaxylene	68.0%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
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Sample ID: LDW-SP-48-C-F
SAMPLE

Lab Sample ID: GU45B
LIMS ID: 04-10231
Matrix: Water
Data Release Authorized: *AS*
Reported: 07/21/04

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

Date Sampled: 06/30/04
Date Received: 06/30/04

Date Extracted: 07/07/04
Date Analyzed: 07/13/04 17:58
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	63.8%
Tetrachlorometaxylene	71.8%

ORGANICS ANALYSIS DATA SHEET

PCB by GC/ECD Method SW8082

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Sample ID: LDW-SP-54-C-U
SAMPLE

Lab Sample ID: GU45C

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10232

Project: LDW Seep Sampling

Matrix: Water

Data Release Authorized: *AS*

Date Sampled: 06/30/04

Reported: 11/02/04

Date Received: 06/30/04

Date Extracted: 07/07/04

Sample Amount: 3000 mL

Date Analyzed: 07/14/04 10:26

Final Extract Volume: 0.50 mL

Instrument/Analyst: ECD4/YZ

Dilution Factor: 10.0

GPC Cleanup: No

Silica Gel: Yes

Sulfur Cleanup: Yes

Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.17	< 0.17 U
53469-21-9	Aroclor 1242	0.17	< 0.17 U
12672-29-6	Aroclor 1248	0.17	4.0 E
11097-69-1	Aroclor 1254	0.17	2.3
11096-82-5	Aroclor 1260	0.17	1.9 P
11104-28-2	Aroclor 1221	0.17	< 0.17 U
11141-16-5	Aroclor 1232	0.17	< 0.17 U


Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.0%
Tetrachlorometaxylene	85.0%

ORGANICS ANALYSIS DATA SHEET
 PCB by GC/ECD Method SW8082
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Sample ID: LDW-SP-54-C-U
 DILUTION

Lab Sample ID: GU45C
 LIMS ID: 04-10232
 Matrix: Water
 Data Release Authorized: 
 Reported: 07/21/04

QC Report No: GU45-Windward Environmental
 Project: LDW Seep Sampling

Date Sampled: 06/30/04
 Date Received: 06/30/04

Date Extracted: 07/07/04
 Date Analyzed: 07/19/04 15:33
 Instrument/Analyst: ECD4/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes

Sample Amount: 3000 mL
 Final Extract Volume: 0.50 mL
 Dilution Factor: 20.0
 Silica Gel: Yes
 Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.33	< 0.33 U
53469-21-9	Aroclor 1242	0.33	< 0.33 U
12672-29-6	Aroclor 1248	0.33	4.7
11097-69-1	Aroclor 1254	0.33	3.0
11096-82-5	Aroclor 1260	0.33	1.9
11104-28-2	Aroclor 1221	0.33	< 0.33 U
11141-16-5	Aroclor 1232	0.33	< 0.33 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

ORGANICS ANALYSIS DATA SHEET

PCB by GC/ECD Method SW8082

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Sample ID: LDW-SP-54-C-F
SAMPLE

Lab Sample ID: GU45D

LIMS ID: 04-10233

Matrix: Water

Data Release Authorized: *MS*

Reported: 11/02/04

QC Report No: GU45-Windward Environmental

Project: LDW Seep Sampling

Date Sampled: 06/30/04

Date Received: 06/30/04

Date Extracted: 07/07/04

Date Analyzed: 07/14/04 12:06

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

Silica Gel: Yes

Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	0.21
11097-69-1	Aroclor 1254	0.017	< 0.15 Y
11096-82-5	Aroclor 1260	0.017	0.047
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	43.2%
Tetrachlorometaxylene	52.2%

ORGANICS ANALYSIS DATA SHEET

PCB by GC/ECD Method SW8082

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Sample ID: LDW-SP-82-C-U
SAMPLE

Lab Sample ID: GU45E

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10234

Project: LDW Seep Sampling

Matrix: Water

Data Release Authorized:

Date Sampled: 06/30/04

Reported: 11/02/04

Date Received: 06/30/04

Date Extracted: 07/07/04

Sample Amount: 3000 mL

Date Analyzed: 07/13/04 19:40

Final Extract Volume: 0.50 mL

Instrument/Analyst: ECD4/YZ

Dilution Factor: 1.00

GPC Cleanup: No

Silica Gel: Yes

Sulfur Cleanup: Yes

Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	45.5%
Tetrachlorometaxylene	59.5%

ORGANICS ANALYSIS DATA SHEET

PCB by GC/ECD Method SW8082

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Sample ID: LDW-SP-82-C-F

SAMPLE

Lab Sample ID: GU45F

LIMS ID: 04-10235

Matrix: Water

Data Release Authorized: 

Reported: 07/21/04

QC Report No: GU45-Windward Environmental

Project: LDW Seep Sampling

Date Sampled: 06/30/04

Date Received: 06/30/04

Date Extracted: 07/07/04

Date Analyzed: 07/13/04 20:14

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: No

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

Silica Gel: No

Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	52.0%
Tetrachlorometaxylene	57.8%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
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Sample ID: LDW-SP-82-C-FD-U
SAMPLE


Lab Sample ID: GU45G

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10236

Project: LDW Seep Sampling

Matrix: Water

Data Release Authorized: 

Date Sampled: 06/30/04

Reported: 11/02/04

Date Received: 06/30/04

Date Extracted: 07/07/04

Sample Amount: 3000 mL

Date Analyzed: 07/13/04 20:48

Final Extract Volume: 0.50 mL

Instrument/Analyst: ECD4/YZ

Dilution Factor: 1.00

GPC Cleanup: No

Silica Gel: Yes

Sulfur Cleanup: Yes

Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	43.0%
Tetrachlorometaxylene	34.5%

ORGANICS ANALYSIS DATA SHEET

PCB by GC/ECD Method SW8082

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Sample ID: LDW-SP-82-C-FD-F

SAMPLE

Lab Sample ID: GU45H

QC Report No: GU45-Windward Environmental

LIMS ID: 04-10237

Project: LDW Seep Sampling

Matrix: Water

Data Release Authorized:

Date Sampled: 06/30/04

Reported: 07/21/04

Date Received: 06/30/04

Date Extracted: 07/07/04

Sample Amount: 3000 mL

Date Analyzed: 07/13/04 21:22

Final Extract Volume: 0.50 mL

Instrument/Analyst: ECD4/YZ

Dilution Factor: 1.00

GPC Cleanup: No

Silica Gel: No

Sulfur Cleanup: No

Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	57.8%
Tetrachlorometaxylene	53.2%

Sample ID: LDW-SP-62-C-F
SAMPLE

Lab Sample ID: GU76A

QC Report No: GU76-Windward Environmental

LIMS ID: 04-10430

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: *MS*

Date Sampled: 07/02/04

Reported: 11/02/04

Date Received: 07/02/04

Date Extracted: 07/07/04

Sample Amount: 3000 mL

Date Analyzed: 07/14/04 00:47

Final Extract Volume: 0.50 mL

Instrument/Analyst: ECD4/YZ

Dilution Factor: 1.00

GPC Cleanup: No

Silica Gel: No

Sulfur Cleanup: No

Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	45.8%
Tetrachlorometaxylene	39.0%

ORGANICS ANALYSIS DATA SHEET

PCB by GC/ECD Method SW8082

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Sample ID: LDW-SP-61-C-U
SAMPLE

Lab Sample ID: GU76B

LIMS ID: 04-10431

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 11/02/04

QC Report No: GU76-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/02/04

Date Received: 07/02/04

Date Extracted: 07/07/04

Date Analyzed: 07/14/04 01:21

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 2500 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

Silica Gel: Yes

Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.020	< 0.020 U
53469-21-9	Aroclor 1242	0.020	< 0.020 U
12672-29-6	Aroclor 1248	0.020	< 0.020 U
11097-69-1	Aroclor 1254	0.020	< 0.020 U
11096-82-5	Aroclor 1260	0.020	< 0.020 U
11104-28-2	Aroclor 1221	0.020	< 0.020 U
11141-16-5	Aroclor 1232	0.020	< 0.020 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	79.0%
Tetrachlorometaxylene	44.5%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
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Sample ID: LDW-SP-61-C-F
SAMPLE

Lab Sample ID: GU76C
LIMS ID: 04-10432
Matrix: Water
Data Release Authorized:
Reported: 07/21/04

QC Report No: GU76-Windward Environmental
Project: LDW-SEEP SAMPLING
Date Sampled: 07/02/04
Date Received: 07/02/04

Date Extracted: 07/07/04
Date Analyzed: 07/14/04 13:48
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	57.2%
Tetrachlorometaxylene	62.8%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
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Sample ID: LDW-SP-75-C-U
SAMPLE

Lab Sample ID: GU83A
LIMS ID: 04-10461
Matrix: Water
Data Release Authorized: *MS*
Reported: 11/02/04

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/03/04
Date Received: 07/03/04

Date Extracted: 07/07/04
Date Analyzed: 07/14/04 14:22
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U


Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	36.2%
Tetrachlorometaxylene	41.0%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LDW-SP-75-C-F
SAMPLE

Lab Sample ID: GU83B
LIMS ID: 04-10462
Matrix: Water
Data Release Authorized: 
Reported: 07/21/04

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/03/04
Date Received: 07/03/04

Date Extracted: 07/07/04
Date Analyzed: 07/14/04 14:56
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1:00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	50.0%
Tetrachlorometaxylene	45.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LDW-SP-75-C-F
MATRIX SPIKE

Lab Sample ID: GU83B
LIMS ID: 04-10462
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 11/02/04

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/03/04
Date Received: 07/03/04

Date Extracted: 07/07/04
Date Analyzed: 07/14/04 06:27
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 1600 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.031	---
53469-21-9	Aroclor 1242	0.031	< 0.031 U
12672-29-6	Aroclor 1248	0.031	< 0.031 U
11097-69-1	Aroclor 1254	0.031	< 0.031 U
11096-82-5	Aroclor 1260	0.031	---
11104-28-2	Aroclor 1221	0.031	< 0.031 U
11141-16-5	Aroclor 1232	0.031	< 0.031 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	49.2%
Tetrachlorometaxylene	36.5%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
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Sample ID: LDW-SP-75-C-F
MATRIX SPIKE DUP

Lab Sample ID: GU83B
 LIMS ID: 04-10462
 Matrix: Water
 Data Release Authorized: *MS*
 Reported: 11/02/04

QC Report No: GU83-Windward Environmental
 Project: LDW-SEEP SAMPLING

Date Sampled: 07/03/04
 Date Received: 07/03/04

Date Extracted: 07/07/04
 Date Analyzed: 07/14/04 07:01
 Instrument/Analyst: ECD4/YZ
 GPC Cleanup: No
 Sulfur Cleanup: No

Sample Amount: 1600 mL
 Final Extract Volume: 0.50 mL
 Dilution Factor: 1.00
 Silica Gel: No
 Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.031	---
53469-21-9	Aroclor 1242	0.031	< 0.031 U
12672-29-6	Aroclor 1248	0.031	< 0.031 U
11097-69-1	Aroclor 1254	0.031	< 0.031 U
11096-82-5	Aroclor 1260	0.031	---
11104-28-2	Aroclor 1221	0.031	< 0.031 U
11141-16-5	Aroclor 1232	0.031	< 0.031 U


Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	33.8%
Tetrachlorometaxylene	36.5%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LDW-SP-64-RB-S-U
SAMPLE

Lab Sample ID: GU83C
LIMS ID: 04-10463
Matrix: Water
Data Release Authorized: 
Reported: 07/21/04

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/03/04
Date Received: 07/03/04

Date Extracted: 07/07/04
Date Analyzed: 07/14/04 04:45
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	38.8%
Tetrachlorometaxylene	48.8%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
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Sample ID: LDW-SP-64-RB-MP-U
SAMPLE


Lab Sample ID: GU83D

QC Report No: GU83-Windward Environmental

LIMS ID: 04-10464

Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: 

Date Sampled: 07/03/04

Reported: 07/21/04

Date Received: 07/03/04

Date Extracted: 07/07/04

Sample Amount: 3000 mL

Date Analyzed: 07/14/04 05:19

Final Extract Volume: 0.50 mL

Instrument/Analyst: ECD4/YZ

Dilution Factor: 1.00

GPC Cleanup: No

Silica Gel: No

Sulfur Cleanup: No

Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	25.5%
Tetrachlorometaxylene	51.5%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LDW-SP-64-C-U
SAMPLE

Lab Sample ID: GU83E
LIMS ID: 04-10465
Matrix: Water
Data Release Authorized: *AB*
Reported: 07/21/04

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/02/04
Date Received: 07/03/04

Date Extracted: 07/09/04
Date Analyzed: 07/14/04 14:29
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.040	< 0.040 U
53469-21-9	Aroclor 1242	0.040	< 0.040 U
12672-29-6	Aroclor 1248	0.040	0.092
11097-69-1	Aroclor 1254	0.040	0.21
11096-82-5	Aroclor 1260	0.040	0.16
11104-28-2	Aroclor 1221	0.040	< 0.040 U
11141-16-5	Aroclor 1232	0.040	< 0.040 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	61.2%
Tetrachlorometaxylene	62.0%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LDW-SP-64-C-F
SAMPLE

Lab Sample ID: GU83F
LIMS ID: 04-10466
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 11/02/04

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/02/04
Date Received: 07/03/04

Date Extracted: 07/07/04
Date Analyzed: 07/14/04 05:53
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U


Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	46.8%
Tetrachlorometaxylene	49.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LDW-SP-75-C-F
MS/MSD

Lab Sample ID: GU83B
LIMS ID: 04-10462
Matrix: Water
Data Release Authorized: 
Reported: 07/21/04

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/03/04
Date Received: 07/03/04

Date Extracted MS/MSD: 07/07/04

Sample Amount MS: 1600 mL
MSD: 1600 mL

Date Analyzed MS: 07/14/04 06:27
MSD: 07/14/04 07:01

Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL

Instrument/Analyst MS: ECD4/YZ
MSD: ECD4/YZ

Dilution Factor MS: 1.00
MSD: 1.00

GPC Cleanup: No
Sulfur Cleanup: Yes

Silica Gel: Yes
Acid Cleanup: No

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 0.017	0.165	0.315	52.4%	0.152	0.315	48.3%	8.2%
Aroclor 1260	< 0.017	0.196	0.315	62.2%	0.163	0.315	51.7%	18.4%

Results reported in $\mu\text{g/L}$

RPD calculated using sample concentrations per SW846.


ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
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Sample ID: LCS-070704
 LAB CONTROL

QC Report No: GU45-Windward Environmental
 Project: LDW Seep Sampling

Date Sampled: 06/30/04
 Date Received: 06/30/04

Sample Amount: 3000 mL
 Final Extract Volume: 0.50 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Acid Cleanup: No

Lab Sample ID: LCS-070704
 LIMS ID: 04-10230
 Matrix: Water
 Data Release Authorized: 
 Reported: 07/21/04
 Date Extracted: 07/07/04
 Date Analyzed: 07/13/04 16:50
 Instrument/Analyst: ECD4/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	0.081	0.168	48.2%
Aroclor 1260	0.093	0.168	55.4%


PCB Surrogate Recovery

Decachlorobiphenyl	46.5%
Tetrachlorometaxylene	40.0%

Results reported in $\mu\text{g/L}$

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
 Page 1 of 1

Sample ID: LCS-070904
 LAB CONTROL

Lab Sample ID: LCS-070904
 LIMS ID: 04-10465
 Matrix: Water
 Data Release Authorized: 
 Reported: 07/21/04

QC Report No: GU83-Windward Environmental
 Project: LDW-SEEP SAMPLING

Date Sampled: 07/02/04
 Date Received: 07/03/04

Date Extracted: 07/09/04
 Date Analyzed: 07/14/04 12:40
 Instrument/Analyst: ECD5/PK
 GPC Cleanup: No
 Sulfur Cleanup: Yes

Sample Amount: 500 mL
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Silica Gel: No
 Acid Cleanup: Yes

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	1.39	2.00	69.5%
Aroclor 1260	1.48	2.00	74.0%

PCB Surrogate Recovery

Decachlorobiphenyl	80.2%
Tetrachlorometaxylene	71.8%

Results reported in $\mu\text{g/L}$

FORM 4
PCB METHOD BLANK SUMMARY

SAMPLE NO.

GU45MBW7/7

Lab Name: ANALYTICAL RESOURCES, INC

Client: WINDWARD ENVIRONMENTAL

ARI Job No.: GU45/GU76/GU83

Project: LDW-SEEP SAMPLING

Lab Sample ID: GU45MBW7/7

Lab File ID: 0713-06R

Matrix (soil/water) WATER

Extraction: (SepF/Cont/Sonc) OTHER

Sulfur Cleanup (Y/N) Y

Date Extracted: 07/09/04

Date Analyzed (1): 07/13/04

Date Analyzed (2): 07/13/04

Time Analyzed (1): 1542

Time Analyzed (2): 1542

Instrument ID (1): ECD4

Instrument ID (2): ECD4

GC Column (1): RTX-CLP1 ID: 0.53 (mm) GC Column (2): RTX-CLP2 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	GU45SBW7/7	GU45SBW2	07/13/04	07/13/04
02	LDW-SP-48-CU	GU45A	07/13/04	07/13/04
03	LDW-SP-48-CF	GU45B	07/13/04	07/13/04
04	LDW-SP-82-CU	GU45E	07/13/04	07/13/04
05	LDW-SP-82-CF	GU45F	07/13/04	07/13/04
06	LDW-SP82CFDU	GU45G	07/13/04	07/13/04
07	LDW-SP82CFDF	GU45H	07/13/04	07/13/04
08	LDW-SP-62-CF	GU76A	07/14/04	07/14/04
09	LDW-SP-61-CU	GU76B	07/14/04	07/14/04
10	LDW-SP64RBSU	GU83C	07/14/04	07/14/04
11	LDW-SP64RBMP	GU83D	07/14/04	07/14/04
12	LDW-SP-64-CF	GU83F	07/14/04	07/14/04
13	LDW-SP-75-CF	GU83BMS	07/14/04	07/14/04
14	LDW-SP-75-CF	GU83BMSD	07/14/04	07/14/04
15	LDW-SP-54-CU	GU45C10X	07/14/04	07/14/04
16	LDW-SP-54-CF	GU45D	07/14/04	07/14/04
17	LDW-SP-61-CF	GU76C	07/14/04	07/14/04
18	LDW-SP-75-CU	GU83A	07/14/04	07/14/04
19	LDW-SP-75-CF	GU83B	07/14/04	07/14/04
20	LDW-SP-54-CU	GU45C20X	07/19/04	07/19/04

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MB-070704
METHOD BLANK

Lab Sample ID: MB-070704
LIMS ID: 04-10230
Matrix: Water
Data Release Authorized: *D*
Reported: 07/21/04

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

Date Sampled: NA
Date Received: NA

Date Extracted: 07/07/04
Date Analyzed: 07/13/04 15:42
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	74.5%
Tetrachlorometaxylene	40.8%

4
PCB METHOD BLANK SUMMARY

BLANK NO.

GU81MBW1

Lab Name: ANALYTICAL RESOURCES, INC	Client: WINDWARD ENV.
ARI Job No.: GU83	Project: LOW-SEEP SAMPLING
Lab Sample ID: GU81MBW1	Lab File ID: 0714B006
Matrix (soil/water) WATER	Date Extracted: 07/09/04
Date Analyzed (1): 07/14/04	Date Analyzed (2): 07/14/04
Time Analyzed (1): 1219	Time Analyzed (2): 1219
Instrument ID (1): ECD5	Instrument ID (2): ECD5
GC Column (1): DB5 ID: 0.53(mm)	GC Column (2): ZB35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	Client SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	=====	=====	=====	=====
01	GU81LCSW1	GU81LCSW1	07/14/04	07/14/04
02	LDW-SP-64-C-U	GU83E	07/14/04	07/14/04

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MB-070904
METHOD BLANK

Lab Sample ID: MB-070904
LIMS ID: 04-10465
Matrix: Water
Data Release Authorized: *MS*
Reported: 07/21/04

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: NA
Date Received: NA

Date Extracted: 07/09/04
Date Analyzed: 07/14/04 12:19
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.040	< 0.040 U
53469-21-9	Aroclor 1242	0.040	< 0.040 U
12672-29-6	Aroclor 1248	0.040	< 0.040 U
11097-69-1	Aroclor 1254	0.040	< 0.040 U
11096-82-5	Aroclor 1260	0.040	< 0.040 U
11104-28-2	Aroclor 1221	0.040	< 0.040 U
11141-16-5	Aroclor 1232	0.040	< 0.040 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	78.8%
Tetrachlorometaxylene	70.8%

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

<u>Client ID</u>	<u>DCBP</u>	<u>TCMX</u>	<u>TOT OUT</u>
MB-070204	72.5%	32.0%	0
LCS-070204	63.2%	35.8%	0
LDW-SP-10-C-F	51.0%	32.5%	0
LDW-SP-12-C-F	55.5%	48.8%	0
LDW-SP-20-C-F	66.0%	44.5%	0
LDW-SP-41-C-F	85.0%	59.5%	0
LDW-SP-12-C-U	55.2%	42.8%	0
LDW-SP-20-C-U	53.2%	48.5%	0
LDW-SP-41-C-U	64.5%	76.2%	0
LDW-SP-41-C-U MS	66.8%	88.2%	0
LDW-SP-41-C-U MSD	66.0%	82.2%	0
LDW-SP-39-C-F	57.0%	75.5%	0
LDW-SP-80-C-F	53.0%	67.5%	0
LDW-SP-39-C-U	55.8%	62.8%	0
LDW-SP-80-C-U	55.2%	35.0%	0


LCS/MB LIMITS QC LIMITS

(DCBP) = Decachlorobiphenyl (42-138) (25-134)
(TCMX) = Tetrachlorometaxylene (32-117) (25-118)

Prep Method: Manchester
Log Number Range: 04-10337 to 04-10347

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
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Sample ID: LDW-SP-10-C-F
SAMPLE

Lab Sample ID: GU59A
LIMS ID: 04-10337
Matrix: Water
Data Release Authorized: 
Reported: 07/16/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted: 07/02/04
Date Analyzed: 07/09/04 18:45
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	51.0%
Tetrachlorometaxylene	32.5%

ORGANICS ANALYSIS DATA SHEET

PCB by GC/ECD Method SW8082

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Sample ID: LDW-SP-12-C-F
SAMPLE

Lab Sample ID: GU59B

LIMS ID: 04-10338

Matrix: Water

Data Release Authorized:

Reported: 11/02/04

QC Report No: GU59-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Date Analyzed: 07/09/04 19:19

Instrument/Analyst: ECD4/YZ

GPC Cleanup: No

Sulfur Cleanup: Yes

Sample Amount: 3000 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

Silica Gel: Yes

Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	55.5%
Tetrachlorometaxylene	48.8%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LDW-SP-20-C-F
SAMPLE

Lab Sample ID: GU59C
LIMS ID: 04-10339
Matrix: Water
Data Release Authorized:
Reported: 07/16/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted: 07/02/04
Date Analyzed: 07/09/04 19:53
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	66.0%
Tetrachlorometaxylene	44.5%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LDW-SP-41-C-F
SAMPLE

Lab Sample ID: GU59D
LIMS ID: 04-10340
Matrix: Water
Data Release Authorized:
Reported: 07/16/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING
Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted: 07/02/04
Date Analyzed: 07/09/04 23:18
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	85.0%
Tetrachlorometaxylene	59.5%

Sample ID: LDW-SP-12-C-U
SAMPLE

Lab Sample ID: GU59E
LIMS ID: 04-10341
Matrix: Water
Data Release Authorized: *AS*
Reported: 11/02/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted: 07/02/04
Date Analyzed: 07/10/04 01:00
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	55.2%
Tetrachlorometaxylene	42.8%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LDW-SP-20-C-U
SAMPLE

Lab Sample ID: GU59F
LIMS ID: 04-10342
Matrix: Water
Data Release Authorized: *AS*
Reported: 11/02/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted: 07/02/04
Date Analyzed: 07/10/04 01:34
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U


Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	53.2%
Tetrachlorometaxylene	48.5%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LDW-SP-41-C-U
SAMPLE

Lab Sample ID: GU59G
LIMS ID: 04-10343
Matrix: Water
Data Release Authorized: 
Reported: 07/16/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted: 07/02/04
Date Analyzed: 07/10/04 02:08
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U


Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	64.5%
Tetrachlorometaxylene	76.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LDW-SP-41-C-U
MATRIX SPIKE

Lab Sample ID: GU59G
LIMS ID: 04-10343
Matrix: Water
Data Release Authorized: 
Reported: 07/16/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted: 07/02/04
Date Analyzed: 07/10/04 02:42
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	---
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	---
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U


Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	66.8%
Tetrachlorometaxylene	88.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
 Page 1 of 1

Sample ID: LDW-SP-41-C-U
MATRIX SPIKE DUP

Lab Sample ID: GU59G
 LIMS ID: 04-10343
 Matrix: Water
 Data Release Authorized: 
 Reported: 07/16/04

QC Report No: GU59-Windward Environmental
 Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04
 Date Received: 07/01/04

Date Extracted: 07/02/04
 Date Analyzed: 07/10/04 03:16
 Instrument/Analyst: ECD4/YZ
 GPC Cleanup: No
 Sulfur Cleanup: No

Sample Amount: 3000 mL
 Final Extract Volume: 0.50 mL
 Dilution Factor: 1.00
 Silica Gel: No
 Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	---
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	---
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U


Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	66.0%
Tetrachlorometaxylene	82.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
 Page 1 of 1

Sample ID: LDW-SP-39-C-F
SAMPLE

Lab Sample ID: GU59H
 LIMS ID: 04-10344
 Matrix: Water
 Data Release Authorized: 
 Reported: 07/16/04

QC Report No: GU59-Windward Environmental
 Project: LDW-SEEP SAMPLING
 Date Sampled: 07/01/04
 Date Received: 07/01/04

Date Extracted: 07/02/04
 Date Analyzed: 07/10/04 03:50
 Instrument/Analyst: ECD4/YZ
 GPC Cleanup: No
 Sulfur Cleanup: No

Sample Amount: 3000 mL
 Final Extract Volume: 0.50 mL
 Dilution Factor: 1.00
 Silica Gel: No
 Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	57.0%
Tetrachlorometaxylene	75.5%

ORGANICS ANALYSIS DATA SHEET
 PCB by GC/ECD Method SW8082
 Page 1 of 1

Sample ID: LDW-SP-80-C-F
 SAMPLE

Lab Sample ID: GU59I
 LIMS ID: 04-10345
 Matrix: Water
 Data Release Authorized: *AB*
 Reported: 11/02/04

QC Report No: GU59-Windward Environmental
 Project: LDW-SEEP SAMPLING
 Date Sampled: 07/01/04
 Date Received: 07/01/04

Date Extracted: 07/02/04
 Date Analyzed: 07/12/04 18:09
 Instrument/Analyst: ECD4/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes

Sample Amount: 3000 mL
 Final Extract Volume: 0.50 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	53.0%
Tetrachlorometaxylene	67.5%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LDW-SP-39-C-U
SAMPLE

Lab Sample ID: GU59J
LIMS ID: 04-10346

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Matrix: Water

Data Release Authorized: 

Date Sampled: 07/01/04

Reported: 07/16/04

Date Received: 07/01/04

Date Extracted: 07/02/04

Sample Amount: 3000 mL

Date Analyzed: 07/10/04 04:58

Final Extract Volume: 0.50 mL

Instrument/Analyst: ECD4/YZ

Dilution Factor: 1.00

GPC Cleanup: No

Silica Gel: No

Sulfur Cleanup: No

Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U


Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	55.8%
Tetrachlorometaxylene	62.8%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LDW-SP-80-C-U
SAMPLE

Lab Sample ID: GU59K
LIMS ID: 04-10347
Matrix: Water
Data Release Authorized: 
Reported: 11/02/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted: 07/02/04
Date Analyzed: 07/12/04 18:43
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	55.2%
Tetrachlorometaxylene	35.0%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LDW-SP-41-C-U
MS/MSD

Lab Sample ID: GU59G

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

LIMS ID: 04-10343

Matrix: Water

Data Release Authorized: *AS*

Date Sampled: 07/01/04

Reported: 07/16/04

Date Received: 07/01/04

Date Extracted MS/MSD: 07/02/04

Sample Amount MS: 3000 mL

MSD: 3000 mL

Date Analyzed MS: 07/10/04 02:42

Final Extract Volume MS: 0.5 mL

MSD: 07/10/04 03:16

MSD: 0.5 mL

Instrument/Analyst MS: ECD4/YZ

Dilution Factor MS: 1.00

MSD: ECD4/YZ

MSD: 1.00

GPC Cleanup: No

Silica Gel: No

Sulfur Cleanup: No

Acid Cleanup: No


Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 0.017	0.132	0.168	78.6%	0.122	0.168	72.6%	7.9%
Aroclor 1260	< 0.017	0.146	0.168	86.9%	0.127	0.168	75.6%	13.9%

Results reported in $\mu\text{g/L}$

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LCS-070204
LAB CONTROL

Lab Sample ID: LCS-070204
LIMS ID: 04-10337
Matrix: Water
Data Release Authorized: 
Reported: 07/16/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted: 07/02/04
Date Analyzed: 07/09/04 14:47
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 3000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: No

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	0.104	0.168	61.9%
Aroclor 1260	0.130	0.168	77.4%

PCB Surrogate Recovery

Decachlorobiphenyl	63.2%
Tetrachlorometaxylene	35.8%

Results reported in $\mu\text{g/L}$

FORM 4
PCB METHOD BLANK SUMMARY

SAMPLE NO.

GUMBW7/2

Lab Name: ANALYTICAL RESOURCES, INC

Client: WINDWARD ENVIRONMENTAL

ARI Job No.: GU59

Project: LDW-SEEP SAMPLING

Lab Sample ID: GU26MBW7/2

Lab File ID: 0709-08R

Matrix (soil/water) WATER

Extraction: (SepF/Cont/Sonc) OTHER

Sulfur Cleanup (Y/N) Y

Date Extracted: 07/02/04

Date Analyzed (1): 07/09/04

Date Analyzed (2): 07/09/04

Time Analyzed (1): 1339

Time Analyzed (2): 1339

Instrument ID (1): ECD4

Instrument ID (2): ECD4


GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	GUSBW7/2	GU26SBW2	07/09/04	07/09/04
02	LDW-SP-10-CF	GU59A	07/09/04	07/09/04
03	LDW-SP-12-CF	GU59B	07/09/04	07/09/04
04	LDW-SP-20-CF	GU59C	07/09/04	07/09/04
05	LDW-SP-41-CF	GU59D	07/09/04	07/09/04
06	LDW-SP-12-CU	GU59E	07/10/04	07/10/04
07	LDW-SP-20-CU	GU59F	07/10/04	07/10/04
08	LDW-SP-41-CU	GU59G	07/10/04	07/10/04
09	LDW-SP-41-CU	GU59GMSD	07/10/04	07/10/04
10	LDW-SP-41-CU	GU59GMS	07/10/04	07/10/04
11	LDW-SP-39-CF	GU59H	07/10/04	07/10/04
12	LDW-SP-39-CU	GU59J	07/10/04	07/10/04
13	LDW-SP-80-CF	GU59I	07/12/04	07/12/04
14	LDW-SP-80-CU	GU59K	07/12/04	07/12/04

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
 Page 1 of 1

Sample ID: MB-070204
METHOD BLANK

Lab Sample ID: MB-070204
 LIMS ID: 04-10337
 Matrix: Water
 Data Release Authorized: 
 Reported: 07/16/04

QC Report No: GU59-Windward Environmental
 Project: LDW-SEEP SAMPLING

Date Sampled: NA
 Date Received: NA

Date Extracted: 07/02/04
 Date Analyzed: 07/09/04 13:39
 Instrument/Analyst: ECD4/YZ
 GPC Cleanup: No
 Sulfur Cleanup: Yes

Sample Amount: 3000 mL
 Final Extract Volume: 0.50 mL
 Dilution Factor: 1.00
 Silica Gel: Yes
 Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.017	< 0.017 U
53469-21-9	Aroclor 1242	0.017	< 0.017 U
12672-29-6	Aroclor 1248	0.017	< 0.017 U
11097-69-1	Aroclor 1254	0.017	< 0.017 U
11096-82-5	Aroclor 1260	0.017	< 0.017 U
11104-28-2	Aroclor 1221	0.017	< 0.017 U
11141-16-5	Aroclor 1232	0.017	< 0.017 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	72.5%
Tetrachlorometaxylene	32.0%

NWTPH-g

WATER TPHg SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water

QC Report No: GU45

<u>LIMS ID</u>	<u>Lab ID</u>	<u>Client ID</u>	<u>TFT</u>	<u>BB</u>	<u>TOT OUT</u>
04-10232MB	070104MB	Method Blank	106%	104%	0
04-10232LC	070104LC	Lab Control	98.5%	95.6%	0
04-10232LCD	070104LCD	Lab Control Dup	100%	95.7%	0
04-10232	GU45C	LDW-SP-54-C-U	101%	105%	0
04-10238	GU45I	Trip Blank	94.6%	97.2%	0

	<u>MB/LCS</u>	<u>SAMPLE</u>
	<u>QC LIMITS</u>	<u>QC LIMITS</u>
(TFT) = Trifluorotoluene	(66-129)	(31-139)
(BB) = Bromobenzene	(72-118)	(38-141)

Limits Updated - 04/26/04

- # Column to be used to flag recovery values
- * Values outside of required QC limits
- D System Monitoring Compound diluted out


**ORGANICS ANALYSIS DATA SHEET
TOTAL GASOLINE RANGE HYDROCARBONS**

NWTPHg Toluene to Naphthalene

Page 1 of 1

Matrix: Water

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

Data Release Authorized: 
Reported: 07/19/04

ARI ID	Client ID	Analysis Date	Range	Result mg/L
MB-070104 04-10232	Method Blank	07/01/04 PID2	Gasoline HC ID Trifluorotoluene Bromobenzene	< 0.25 U --- 106% 104%
GU45C 04-10232	LDW-SP-54-C-U	07/01/04 PID2	Gasoline HC ID Trifluorotoluene Bromobenzene	0.29 GRO 101% 105%
GU45I 04-10238	Trip Blank	07/01/04 PID2	Gasoline HC ID Trifluorotoluene Bromobenzene	< 0.25 U --- 94.6% 97.2%


Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

ORGANICS ANALYSIS DATA SHEET
NWTPHg - Toluene to Naphthalene
 Page 1 of 1

Sample ID: LCS-070104
 LCS/LCSD

Lab Sample ID: LCS-070104
 LIMS ID: 04-10232
 Matrix: Water
 Data Release Authorized: 
 Reported: 07/19/04

QC Report No: GU45-Windward Environmental
 Project: LDW Seep Sampling

Date Sampled: NA
 Date Received: NA

Instrument/Analyst LCS: PID2/AAR
 LCSD: PID2/AAR
 Date Analyzed LCS: 07/01/04 15:05
 LCSD: 07/01/04 15:32

Sample Amount LCS: 5.0 mL
 LCSD: 5.0 mL

Analyte	Spike		LCS		LCSD		RPD
	LCS	Added-LCS	Recovery	LCS	Added-LCSD	Recovery	
Gasoline Range Hydrocarbons	2.55	2.50	102%	2.53	2.50	101%	0.8%

Results reported in mg/L (ppm).
 RPD calculated using sample concentrations per SW846.

Gasoline Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.5%	100%
Bromobenzene	95.6%	95.7%

4
BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

GU45MB0701W1

Lab Name: ANALYTICAL RESOURCES, INC

Client: WINDWARD ENVIRONMENTAL

SDG No.: GU45

Project No.: LDW-SEEP SAMPLING

Date Analyzed : 07/01/04

Matrix: WATER

Time Analyzed : 1437

Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	GU45LCS0701W1	GU45LCS0701W1	07/01/04
02	GU45LCSD0701W1	GU45LCSD0701W1	07/01/04
03	TRIP BLANK	GU45I	07/01/04
04	LDW-SP-54-C-U	GU45C	07/01/04
05			
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

WATER TPHg SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water

QC Report No: GU59

<u>LIMS ID</u>	<u>Lab ID</u>	<u>Client ID</u>	<u>TFT</u>	<u>BB</u>	<u>TOT OUT</u>
04-10342MB	070604MB	Method Blank	90.5%	90.4%	0
04-10342LC	070604LC	Lab Control	106%	97.0%	0
04-10342LCD	070604LCD	Lab Control Dup	102%	94.8%	0
04-10342	GU59F	LDW-SP-20-C-U	93.6%	92.6%	0
04-10343	GU59G	LDW-SP-41-C-U	95.8%	93.0%	0
04-10343	GU59G-MS	LDW-SP-41-C-U	102%	92.9%	0
04-10343	GU59G-MSD	LDW-SP-41-C-U	101%	95.2%	0
04-10346	GU59J	LDW-SP-39-C-U	95.9%	94.3%	0
04-10347MB	070704MB	Method Blank	95.9%	96.6%	0
04-10347LC	070704LC	Lab Control	106%	96.7%	0
04-10347LCD	070704LCD	Lab Control Dup	103%	92.9%	0
04-10347	GU59K	LDW-SP-80-C-U	96.8%	95.1%	0
04-10348	GU59L	TRIP BLANK	94.3%	95.3%	0

	<u>MB/LCS</u>	<u>SAMPLE</u>
	<u>QC LIMITS</u>	<u>QC LIMITS</u>
(TFT) = Trifluorotoluene	(66-129)	(31-139)
(BB) = Bromobenzene	(72-118)	(38-141)

Limits Updated - 04/26/04

- # Column to be used to flag recovery values
- * Values outside of required QC limits
- D System Monitoring Compound diluted out

ORGANICS ANALYSIS DATA SHEET
TOTAL GASOLINE RANGE HYDROCARBONS
 NWTPHg Toluene to Naphthalene
 Page 1 of 1
 Matrix: Water

QC Report No: GU59-Windward Environmental
 Project: LDW-SEEP SAMPLING

Data Release Authorized:
 Reported: 07/16/04

ARI ID	Client ID	Analysis Date	Range	Result mg/L
MB-070604 04-10342	Method Blank	07/06/04 PID1	Gasoline HC ID Trifluorotoluene Bromobenzene	< 0.25 U --- 90.5% 90.4%
GU59F 04-10342	LDW-SP-20-C-U	07/06/04 PID1	Gasoline HC ID Trifluorotoluene Bromobenzene	< 0.25 U --- 93.6% 92.6%
GU59G 04-10343	LDW-SP-41-C-U	07/06/04 PID1	Gasoline HC ID Trifluorotoluene Bromobenzene	< 0.25 U --- 95.8% 93.0%
GU59J 04-10346	LDW-SP-39-C-U	07/06/04 PID1	Gasoline HC ID Trifluorotoluene Bromobenzene	< 0.25 U --- 95.9% 94.3%
MB-070704 04-10347	Method Blank	07/07/04 PID1	Gasoline HC ID Trifluorotoluene Bromobenzene	< 0.25 U --- 95.9% 96.6%
GU59K 04-10347	LDW-SP-80-C-U	07/07/04 PID1	Gasoline HC ID Trifluorotoluene Bromobenzene	< 0.25 U --- 96.8% 95.1%
GU59L 04-10348	TRIP BLANK	07/06/04 PID1	Gasoline HC ID Trifluorotoluene Bromobenzene	< 0.25 U --- 94.3% 95.3%

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

ORGANICS ANALYSIS DATA SHEET
NWTPHg - Toluene to Naphthalene
 Page 1 of 1

Sample ID: LDW-SP-41-C-U
 MS/MSD

Lab Sample ID: GU59G
 LIMS ID: 04-10343
 Matrix: Water
 Data Release Authorized:
 Reported: 07/16/04

QC Report No: GU59-Windward Environmental
 Project: LDW-SEEP SAMPLING

Date Sampled: 07/01/04
 Date Received: 07/01/04

Instrument/Analyst MS: PID1/AAR
 MSD: PID1/AAR
 Date Analyzed MS: 07/06/04 16:29
 MSD: 07/06/04 16:57

Sample Amount MS: 5.0 mL
 MSD: 5.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Gasoline Range Hydrocarbons < 0.25 U		1.97	2.50	78.8%	1.97	2.50	78.8%	0.0%

Results reported in mg/L (ppm).
 RPD calculated using sample concentrations per SW846.

Gasoline Surrogate Recovery

	MS	MSD
Trifluorotoluene	102%	101%
Bromobenzene	92.9%	95.2%

ORGANICS ANALYSIS DATA SHEET
NWTPHg - Toluene to Naphthalene
 Page 1 of 1

Sample ID: LCS-070604
 LCS/LCSD

Lab Sample ID: LCS-070604
 LIMS ID: 04-10342
 Matrix: Water
 Data Release Authorized:
 Reported: 07/16/04

QC Report No: GU59-Windward Environmental
 Project: LDW-SEEP SAMPLING

Date Sampled: NA
 Date Received: NA

Instrument/Analyst LCS: PID1/AAR
 LCSD: PID1/AAR
 Date Analyzed LCS: 07/06/04 14:07
 LCSD: 07/06/04 14:36

Sample Amount LCS: 5.0 mL
 LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	2.13	2.50	85.2%	2.12	2.50	84.8%	0.5%

Results reported in mg/L (ppm).

RPD calculated using sample concentrations per SW846.

Gasoline Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	106%	102%
Bromobenzene	97.0%	94.8%

4
BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

GU59MB0706W1

Lab Name: ANALYTICAL RESOURCES, INC

Client: WINDWARD ENVIRONMENTAL

SDG No.: GU59

Project No.: LDW-SEEP SAMPLING

Date Analyzed : 07/06/04

Matrix: WATER

Time Analyzed : 1339

Instrument ID : PID1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	GU59LCS0706W1	GU59LCS0706W1	07/06/04
02	GU59LCSD0706W1	GU59LCSD0706W1	07/06/04
03	TRIP BLANK	GU59L	07/06/04
04	LDW-SP-41-C-U	GU59G MS	07/06/04
05	LDW-SP-41-C-U	GU59G MSD	07/06/04
06	LDW-SP-41-C-U	GU59G	07/06/04
07	LDW-SP-12-C-U	GU59E	07/06/04
08	LDW-SP-20-C-U	GU59F	07/06/04
09	LDW-SP-39-C-U	GU59J	07/06/04
10			
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ORGANICS ANALYSIS DATA SHEET
NWTPHg - Toluene to Naphthalene
 Page 1 of 1

Sample ID: LCS-070704
 LCS/LCSD

Lab Sample ID: LCS-070704
 LIMS ID: 04-10347
 Matrix: Water
 Data Release Authorized:
 Reported: 07/16/04

QC Report No: GU59-Windward Environmental
 Project: LDW-SEEP SAMPLING

Date Sampled: NA
 Date Received: NA

Instrument/Analyst LCS: PID1/AAR
 LCSD: PID1/AAR
 Date Analyzed LCS: 07/07/04 13:37
 LCSD: 07/07/04 14:06

Sample Amount LCS: 5.0 mL
 LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	2.21	2.50	88.4%	2.03	2.50	81.2%	8.5%

Results reported in mg/L (ppm).
 RPD calculated using sample concentrations per SW846.

Gasoline Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	106%	103%
Bromobenzene	96.7%	92.9%

4
BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

GU59MB0707W1

Lab Name: ANALYTICAL RESOURCES, INC

Client: WINDWARD ENVIRONMENTAL

SDG No.: GU59

Project No.: LDW-SEEP SAMPLING

Date Analyzed : 07/07/04

Matrix: WATER

Time Analyzed : 1309

Instrument ID : PID1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO. =====	LAB SAMPLE ID =====	DATE ANALYZED =====
01	GU59LCS0707W1	GU59LCS0707W1	07/07/04
02	GU59LCSD0707W1	GU59LCSD0707W1	07/07/04
03	LDW-SP-80-C-U	GU59K	07/07/04
04			
05			
06			
07			
08			
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WATER TPHg SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water

QC Report No: GU76

<u>LIMS ID</u>	<u>Lab ID</u>	<u>Client ID</u>	<u>TFT</u>	<u>BB</u>	<u>TOT OUT</u>
04-10433MB	070604MB	Method Blank	90.5%	90.4%	0
04-10433LC	070604LC	Lab Control	106%	97.0%	0
04-10433LCD	070604LCD	Lab Control Dup	102%	94.8%	0
04-10433	GU76D	LDW-SP-69-C-U	96.4%	95.0%	0

	<u>MB/LCS</u>	<u>SAMPLE</u>
	<u>QC LIMITS</u>	<u>QC LIMITS</u>
(TFT) = Trifluorotoluene	(66-129)	(31-139)
(BB) = Bromobenzene	(72-118)	(38-141)

Limits Updated - 04/26/04

- # Column to be used to flag recovery values
- * Values outside of required QC limits
- D System Monitoring Compound diluted out

**ORGANICS ANALYSIS DATA SHEET
TOTAL GASOLINE RANGE HYDROCARBONS**

NWTPHg Toluene to Naphthalene
Page 1 of 1
Matrix: Water

QC Report No: GU76-Windward Environmental
Project: LDW-SEEP SAMPLING

Data Release Authorized: *AS*
Reported: 07/19/04


ARI ID	Client ID	Analysis Date	Range	Result mg/L
MB-070604 04-10433	Method Blank	07/06/04 PID1	Gasoline	< 0.25 U
			HC ID	---
			Trifluorotoluene	90.5%
			Bromobenzène	90.4%
GU76D 04-10433	LDW-SP-69-C-U	07/06/04 PID1	Gasoline	< 0.25 U
			HC ID	---
			Trifluorotoluene	96.4%
			Bromobenzene	95.0%

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

ORGANICS ANALYSIS DATA SHEET
NWTPHg - Toluene to Naphthalene
 Page 1 of 1

Sample ID: LCS-070604
LCS/LCSD

Lab Sample ID: LCS-070604
 LIMS ID: 04-10433
 Matrix: Water
 Data Release Authorized: 
 Reported: 07/19/04

QC Report No: GU76-Windward Environmental
 Project: LDW-SEEP SAMPLING

Date Sampled: NA
 Date Received: NA

Instrument/Analyst LCS: PID1/AAR
 LCSD: PID1/AAR
 Date Analyzed LCS: 07/06/04 14:07
 LCSD: 07/06/04 14:36

Sample Amount LCS: 5.0 mL
 LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	2.13	2.50	85.2%	2.09	2.50	83.6%	1.9%

Results reported in mg/L (ppm).
 RPD calculated using sample concentrations per SW846.

Gasoline Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	106%	102%
Bromobenzene	97.0%	94.8%

4
BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

GU76MB0706W1

Lab Name: ANALYTICAL RESOURCES, INC

Client: WINDWARD ENVIRONMENTAL

SDG No.: GU76

Project No.: LDW-SEEP SAMPLING

Date Analyzed : 07/06/04

Matrix: WATER

Time Analyzed : 1339

Instrument ID : PID1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	GU76LCS0706W1	GU76LCS0706W1	07/06/04
02	GU76LCSD0706W1	GU76LCSD0706W1	07/06/04
03	LDW-SP-69-C-U	GU76D	07/06/04
04			
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WATER TPHg SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water

QC Report No: GU83

<u>LIMS ID</u>	<u>Lab ID</u>	<u>Client ID</u>	<u>TFT</u>	<u>BB</u>	<u>TOT OUT</u>
04-10465MB	070604MB	Method Blank	90.5%	90.4%	0
04-10465LC	070604LC	Lab Control	106%	97.0%	0
04-10465LCD	070604LCD	Lab Control Dup	102%	94.8%	0
04-10465	GU83E	LDW-SP-64-C-U	93.1%	92.0%	0


	<u>MB/LCS</u>	<u>SAMPLE</u>
	<u>QC LIMITS</u>	<u>QC LIMITS</u>
(TFT) = Trifluorotoluene	(66-129)	(31-139)
(BB) = Bromobenzene	(72-118)	(38-141)

Limits Updated - 04/26/04

- # Column to be used to flag recovery values
- * Values outside of required QC limits
- D System Monitoring Compound diluted out

ORGANICS ANALYSIS DATA SHEET
TOTAL GASOLINE RANGE HYDROCARBONS
 NWTPHg Toluene to Naphthalene
 Page 1 of 1
 Matrix: Water

QC Report No: GU83-Windward Environmental
 Project: LDW-SEEP SAMPLING

Data Release Authorized: 
 Reported: 07/20/04

ARI ID	Client ID	Analysis Date	Range	Result mg/L
MB-070604 04-10465	Method Blank	07/06/04 PID1	Gasoline	< 0.25 U
			HC ID	---
			Trifluorotoluene	90.5%
			Bromobenzène	90.4%
GU83E 04-10465	LDW-SP-64-C-U	07/06/04 PID1	Gasoline	< 0.25 U
			HC ID	---
			Trifluorotoluene	93.1%
			Bromobenzene	92.0%


Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

ORGANICS ANALYSIS DATA SHEET
NWTPHg - Toluene to Naphthalene
 Page 1 of 1

Sample ID: LCS-070604
 LCS/LCSD

Lab Sample ID: LCS-070604
 LIMS ID: 04-10465
 Matrix: Water
 Data Release Authorized: 
 Reported: 07/20/04

QC Report No: GU83-Windward Environmental
 Project: LDW-SEEP SAMPLING

Date Sampled: NA
 Date Received: NA

Instrument/Analyst LCS: PID1/AAR
 LCSD: PID1/AAR
 Date Analyzed LCS: 07/06/04 14:07
 LCSD: 07/06/04 14:36

Sample Amount LCS: 5.0 mL
 LCSD: 5.0 mL

Analyte	Spike		LCS		Spike		LCSD	
	LCS	Added-LCS	Recovery	LCSD	Added-LCSD	Recovery	RPD	
Gasoline Range Hydrocarbons	2.13	2.50	85.2%	2.09	2.50	83.6%	1.9%	

Results reported in mg/L (ppm).
 RPD calculated using sample concentrations per SW846.

Gasoline Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	106%	102%
Bromobenzene	97.0%	94.8%

4
BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

GU83MB0706W1

Lab Name: ANALYTICAL RESOURCES, INC
 SDG No.: GU83
 Date Analyzed : 07/06/04
 Time Analyzed : 1339

Client: WINDWARD ENVIRONMENTAL
 Project No.: LDW-SEEP SAMPLING
 Matrix: WATER
 Instrument ID : PID1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	GU83LCS0706W1	GU83LCS0706W1	07/06/04
02	GU83LCSD0706W1	GU83LCSD0706W1	07/06/04
03	LDW-SP-64-C-U	GU83E	07/06/04
04			
05			
06			
07			
08			
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12			
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NWTPH-Dx

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

<u>Client ID</u>	<u>O-TER</u>	<u>TOT OUT</u>
MB-070204	77.8%	0
LCS-070204	84.2%	0
LDW-SP-54-C-U	55.1%	0
LDW-SP-54-C-F	53.3%	0

LCS/MB LIMITS QC LIMITS

(O-TER) = o-Terphenyl

(54-131)

(46-123)

Prep Method: SW3510C
Log Number Range: 04-10232 to 04-10233

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

<u>Client ID</u>	<u>O-TER</u>	<u>TOT OUT</u>
MB-070204	77.8%	0
LCS-070204	84.2%	0
LDW-SP-10-C-F	58.7%	0
LDW-SP-12-C-F	84.0%	0
LDW-SP-20-C-F	68.4%	0
LDW-SP-41-C-F	83.6%	0
LDW-SP-41-C-F MS	84.9%	0
LDW-SP-41-C-F MSD	86.2%	0
LDW-SP-12-C-U	64.4%	0
LDW-SP-20-C-U	84.9%	0
LDW-SP-41-C-U	84.4%	0
LDW-SP-41-C-U MS	88.0%	0
LDW-SP-41-C-U MSD	84.2%	0
LDW-SP-39-C-F	85.1%	0
LDW-SP-80-C-F	51.6%	0
LDW-SP-39-C-U	82.2%	0
LDW-SP-80-C-U	54.9%	0

LCS/MB LIMITS QC LIMITS

(O-TER) = o-Terphenyl

(54-131)

(46-123)

Prep Method: SW3510C
Log Number Range: 04-10337 to 04-10347

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Water

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

Data Release Authorized: *MM*
Reported: 07/09/04

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result mg/L
MB-070204 04-10232	Method Blank	07/02/04	07/07/04 FID3A	1.0	Diesel Motor Oil HC ID o-Terphenyl	< 0.25 U < 0.50 U --- 77.8%
GU45C 04-10232	LDW-SP-54-C-U	07/02/04	07/07/04 FID3A	1.0	Diesel Motor Oil HC ID o-Terphenyl	2.2 1.9 DRO/RRO 55.1%
GU45D 04-10233	LDW-SP-54-C-F	07/02/04	07/07/04 FID3A	1.0	Diesel Motor Oil HC ID o-Terphenyl	1.4 < 0.50 U DRO 53.3%

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ORGANICS ANALYSIS DATA SHEET
 TOTAL DIESEL RANGE HYDROCARBONS
 NWTPHD by GC/FID
 Page 1 of 2
 Matrix: Water




QC Report No: GU59-Windward Environmental
 Project: LDW-SEEP SAMPLING

Data Release Authorized: *MW*
 Reported: 07/09/04

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result mg/L
MB-070204 04-10337	Method Blank	07/02/04	07/07/04 FID3A	1.0	Diesel Motor Oil HC ID o-Terphenyl	< 0.25 U < 0.50 U --- 77.8%
GU59A 04-10337	LDW-SP-10-C-F	07/02/04	07/07/04 FID3A	1.0	Diesel Motor Oil HC ID o-Terphenyl	< 0.25 U < 0.50 U --- 58.7%
GU59B 04-10338	LDW-SP-12-C-F	07/02/04	07/07/04 FID3A	1.0	Diesel Motor Oil HC ID o-Terphenyl	< 0.25 U < 0.50 U --- 84.0%
GU59C 04-10339	LDW-SP-20-C-F	07/02/04	07/07/04 FID3A	1.0	Diesel Motor Oil HC ID o-Terphenyl	< 0.25 U < 0.50 U --- 68.4%
GU59D 04-10340	LDW-SP-41-C-F	07/02/04	07/07/04 FID3A	1.0	Diesel Motor Oil HC ID o-Terphenyl	< 0.25 U < 0.50 U --- 83.6%
GU59E 04-10341	LDW-SP-12-C-U	07/02/04	07/07/04 FID3A	1.0	Diesel Motor Oil HC ID o-Terphenyl	< 0.25 U < 0.50 U --- 64.4%
GU59F 04-10342	LDW-SP-20-C-U	07/02/04	07/07/04 FID3A	1.0	Diesel Motor Oil HC ID o-Terphenyl	< 0.25 U < 0.50 U --- 84.9%
GU59G 04-10343	LDW-SP-41-C-U	07/02/04	07/07/04 FID3A	1.0	Diesel Motor Oil HC ID o-Terphenyl	< 0.25 U < 0.50 U --- 84.4%
GU59H 04-10344	LDW-SP-39-C-F	07/02/04	07/07/04 FID3A	1.0	Diesel Motor Oil HC ID o-Terphenyl	< 0.25 U < 0.50 U --- 85.1%

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 2 of 2
Matrix: Water

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING

Data Release Authorized: 
Reported: 07/09/04

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result mg/L
GU59I 04-10345	LDW-SP-80-C-F	07/02/04	07/07/04 FID3A	1.0	Diesel Motor Oil HC ID o-Terphenyl	0.59 < 0.50 U DRO 51.6%
GU59J 04-10346	LDW-SP-39-C-U	07/02/04	07/07/04 FID3A	1.0	Diesel Motor Oil HC ID o-Terphenyl	< 0.25 U < 0.50 U --- 82.2%
GU59K 04-10347	LDW-SP-80-C-U	07/02/04	07/08/04 FID3A	1.0	Diesel Motor Oil HC ID o-Terphenyl	0.61 < 0.50 U DRO 54.9%

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: LDW-SP-41-C-F
MS/MSD

Lab Sample ID: GU59D
LIMS ID: 04-10340
Matrix: Water
Data Release Authorized: *mw*
Reported: 07/09/04

QC Report No: GU59-Windward Environmental
Project: LDW-SEEP SAMPLING
Date Sampled: 07/01/04
Date Received: 07/01/04

Date Extracted MS/MSD: 07/02/04
Date Analyzed MS: 07/07/04 19:46
MSD: 07/07/04 20:07
Instrument/Analyst MS: FID/PKC
MSD: FID/PKC

Sample Amount MS: 500 mL
MSD: 500 mL
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 1.00
MSD: 1.00

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	< 0.25 U	2.64	3.00	88.0%	2.63	3.00	87.7%	0.4%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
 NWTPHD by GC/FID
 Page 1 of 1

Sample ID: LDW-SP-41-C-U
 MS/MSD

Lab Sample ID: GU59G
 LIMS ID: 04-10343
 Matrix: Water
 Data Release Authorized: *mw*
 Reported: 07/09/04

QC Report No: GU59-Windward Environmental
 Project: LDW-SEEP SAMPLING
 Date Sampled: 07/01/04
 Date Received: 07/01/04

Date Extracted MS/MSD: 07/02/04
 Date Analyzed MS: 07/07/04 21:31
 MSD: 07/07/04 21:52
 Instrument/Analyst MS: FID/PKC
 MSD: FID/PKC

Sample Amount MS: 500 mL
 MSD: 500 mL
 Final Extract Volume MS: 1.0 mL
 MSD: 1.0 mL
 Dilution Factor MS: 1.00
 MSD: 1.00

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	< 0.25 U	2.73	3.00	91.0%	2.62	3.00	87.3%	4.1%

Results reported in mg/L
 RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1



Sample ID: LCS-070204
LAB CONTROL

Lab Sample ID: LCS-070204
LIMS ID: 04-10232
Matrix: Water
Data Release Authorized: *SMW*
Reported: 07/09/04

QC Report No: GU45-Windward Environmental
Project: LDW Seep Sampling

Date Sampled: 06/30/04
Date Received: 06/30/04

Date Extracted: 07/02/04
Date Analyzed: 07/07/04 16:17
Instrument/Analyst: FID/PKC

Sample Amount: 500 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	2.63	3.00	87.7%

TPHD Surrogate Recovery

o-Terphenyl	84.2%
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Results reported in mg/L

4
TPH METHOD BLANK SUMMARY

BLANK NO.

GU45MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: WINDWARD ENVIRONMENTAL

SDG No.: GU45

Project No.: LDW SEEP SAMPLING

Date Extracted: 07/02/04

Matrix: LIQUID

Date Analyzed : 07/07/04

Instrument ID : FID3A

Time Analyzed : 1556

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	GU45LCSW1	GU45LCSW1	07/07/04
02	LDW-SP-54-C-	GU45C	07/07/04
03	LDW-SP-54-C-	GU45D	07/07/04
04	LDW-SP-10-C-	GU59A	07/07/04
05	LDW-SP-12-C-	GU59B	07/07/04
06	LDW-SP-20-C-	GU59C	07/07/04
07	LDW-SP-41-C-	GU59D	07/07/04
08	LDW-SP-41-C-	GU59D MS	07/07/04
09	LDW-SP-41-C-	GU59D MSD	07/07/04
10	LDW-SP-12-C-	GU59E	07/07/04
11	LDW-SP-20-C-	GU59F	07/07/04
12	LDW-SP-41-C-	GU59G	07/07/04
13	LDW-SP-41-C-	GU59G MS	07/07/04
14	LDW-SP-41-C-	GU59G MSD	07/07/04
15	LDW-SP-39-C-	GU59H	07/07/04
16	LDW-SP-80-C-	GU59I	07/07/04
17	LDW-SP-39-C-	GU59J	07/07/04
18	LDW-SP-80-C-	GU59K	07/08/04
19			
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TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU76-Windward Environmental
Project: LDW-SEEP SAMPLING

<u>Client ID</u>	<u>O-TER</u>	<u>TOT OUT</u>
MB-070704	89.3%	0
LCS-070704	96.9%	0
LCSD-070704	100%	0
LDW-SP-69-C-U	96.9%	0
LDW-SP-69-C-F	95.1%	0

LCS/MB LIMITS QC LIMITS

(O-TER) = o-Terphenyl

(54-131)

(46-123)

Prep Method: SW3510C
Log Number Range: 04-10433 to 04-10434

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

<u>Client ID</u>	<u>O-TER</u>	<u>TOT OUT</u>
MB-070704	89.3%	0
LCS-070704	96.9%	0
LCSD-070704	100%	0
LDW-SP-64-RB-S-U	94.9%	0
LDW-SP-64-RB-MP-U	94.9%	0
LDW-SP-64-C-U	94.0%	0

	LCS/MB LIMITS	QC LIMITS
(O-TER) = o-Terphenyl	(54-131)	(46-123)

Prep Method: SW3510C
Log Number Range: 04-10463 to 04-10465

ORGANICS ANALYSIS DATA SHEET
 TOTAL DIESEL RANGE HYDROCARBONS
 NWTPHD by GC/FID
 Page 1 of 1
 Matrix: Water

QC Report No: GU76-Windward Environmental
 Project: LDW-SEEP SAMPLING

Data Release Authorized: *mw*
 Reported: 07/12/04

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result mg/L
MB-070704 04-10433	Method Blank	07/07/04	07/09/04 FID3A	1.0	Diesel	< 0.25 U
					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	89.3%
GU76D 04-10433	LDW-SP-69-C-U	07/07/04	07/09/04 FID3A	1.0	Diesel	< 0.25 U
					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	96.9%
GU76E 04-10434	LDW-SP-69-C-F	07/07/04	07/09/04 FID3A	1.0	Diesel	< 0.25 U
					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	95.1%

Diesel quantitation on total peaks in the range from C12 to C24.
 Motor Oil quantitation on total peaks in the range from C24 to C38.
 HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in
 ranges are not identifiable.

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Water

QC Report No: GU83-Windward Environmental
Project: LDW-SEEP SAMPLING

Data Release Authorized: *mw*
Reported: 07/12/04

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result mg/L
MB-070704 04-10463	Method Blank	07/07/04	07/09/04 FID3A	1.0	Diesel	< 0.25 U
					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	89.3%
GU83C 04-10463	LDW-SP-64-RB-S-U	07/07/04	07/09/04 FID3A	1.0	Diesel	< 0.25 U
					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	94.9%
GU83D 04-10464	LDW-SP-64-RB-MP-U	07/07/04	07/09/04 FID3A	1.0	Diesel	< 0.25 U
					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	94.9%
GU83E 04-10465	LDW-SP-64-C-U	07/07/04	07/09/04 FID3A	1.0	Diesel	< 0.25 U
					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	94.0%

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID

Page 1 of 1

Sample ID: LCS-070704

LCS/LCSD

Lab Sample ID: LCS-070704

LIMS ID: 04-10433

Matrix: Water

Data Release Authorized: *MW*

Reported: 07/12/04

QC Report No: GU76-Windward Environmental

Project: LDW-SEEP SAMPLING

Date Sampled: 07/02/04

Date Received: 07/02/04

Date Extracted LCS/LCSD: 07/07/04

Sample Amount LCS: 500 mL

LCSD: 500 mL

Date Analyzed LCS: 07/09/04 19:14

Final Extract Volume LCS: 1.0 mL

LCSD: 07/09/04 19:35

LCSD: 1.0 mL

Instrument/Analyst LCS: FID/PKC

Dilution Factor LCS: 1.00

LCSD: FID/PKC

LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	2.59	3.00	86.3%	2.67	3.00	89.0%	3.0%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	96.9%	100%

Results reported in mg/L

RPD calculated using sample concentrations per SW846.

4
TPH METHOD BLANK SUMMARY

BLANK NO.

GU76MBW1

Lab Name: ANALYTICAL RESOURCES, INC Client: WINDWARD ENVIRONMENTAL
 SDG No.: GU76/GU83 Project No.: LDW-SEEP SAMPLING
 Date Extracted: 07/07/04 Matrix: LIQUID
 Date Analyzed : 07/09/04 Instrument ID : FID3A
 Time Analyzed : 1853

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	GU76LCSW1	GU76LCSW1	07/09/04
02	GU76LCSDW1	GU76LCSDW1	07/09/04
03	LDW-SP-69-C-U	GU76D	07/09/04
04	LDW-SP-69-C-F	GU76E	07/09/04
05	LDW-SP-64-RB-S-U	GU83C	07/09/04
06	LDW-SP-64-RB-MP-U	GU83D	07/09/04
07	LDW-SP-64-C-U	GU83E	07/09/04
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General Chemistry

SAMPLE RESULTS-CONVENTIONALS
GU45-Windward Environmental



Matrix: Water
Data Release Authorized: *CHP*
Reported: 07/12/04

Project: LDW Seep Sampling
Event: NA
Date Sampled: 06/30/04
Date Received: 06/30/04

Client ID: LDW-SP-48-C-U
ARI ID: 04-10230 GU45A

Analyte	Date	Method	Units	RL	Sample
Total Suspended Solids	07/07/04 070704#2	EPA 160.2	mg/L	2.2	12.4
Total Organic Carbon	07/01/04 070104#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU45-Windward Environmental



Matrix: Water
Data Release Authorized: *art*
Reported: 07/12/04

Project: LDW Seep Sampling
Event: NA
Date Sampled: 06/30/04
Date Received: 06/30/04

Client ID: LDW-SP-48-C-F
ARI ID: 04-10231 GU45B

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070104#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU45-Windward Environmental



Matrix: Water
Data Release Authorized: *AR*
Reported: 07/12/04

Project: LDW Seep Sampling
Event: NA
Date Sampled: 06/30/04
Date Received: 06/30/04

Client ID: LDW-SP-54-C-U
ARI ID: 04-10232 GU45C

Analyte	Date	Method	Units	RL	Sample
Total Suspended Solids	07/07/04 070704#2	EPA 160.2	mg/L	1.0	14.3
Total Organic Carbon	07/01/04 070104#1	EPA 415.1	mg/L	1.50	6.42

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU45-Windward Environmental



Matrix: Water
Data Release Authorized: *AD*
Reported: 07/12/04

Project: LDW Seep Sampling
Event: NA
Date Sampled: 06/30/04
Date Received: 06/30/04

Client ID: LDW-SP-54-C-F
ARI ID: 04-10233 GU45D

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070604#1	EPA 415.1	mg/L	1.50	5.00

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU45-Windward Environmental



Matrix: Water
Data Release Authorized: *act*
Reported: 07/12/04

Project: LDW Seep Sampling
Event: NA
Date Sampled: 06/30/04
Date Received: 06/30/04

Client ID: LDW-SP-82-C-U
ARI ID: 04-10234 GU45E

Analyte	Date	Method	Units	RL	Sample
Total Suspended Solids	07/07/04 070704#2	EPA 160.2	mg/L	1.0	11.2
Total Organic Carbon	07/01/04 070104#1	EPA 415.1	mg/L	1.50	2.50

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU45-Windward Environmental



Matrix: Water
Data Release Authorized: *out*
Reported: 07/12/04

Project: LDW Seep Sampling
Event: NA
Date Sampled: 06/30/04
Date Received: 06/30/04

Client ID: LDW-SP-82-C-F
ARI ID: 04-10235 GU45F

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070104#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU45-Windward Environmental



Matrix: Water
Data Release Authorized: *arf*
Reported: 07/12/04

Project: LDW Seep Sampling
Event: NA
Date Sampled: 06/30/04
Date Received: 06/30/04

Client ID: LDW-SP-82-C-FD-U
ARI ID: 04-10236 GU45G

Analyte	Date	Method	Units	RL	Sample
Total Suspended Solids	07/07/04 070704#2	EPA 160.2	mg/L	1.1	5.8
Total Organic Carbon	07/01/04 070104#1	EPA 415.1	mg/L	1.50	1.60

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU45-Windward Environmental



Matrix: Water
Data Release Authorized: *QAR*
Reported: 07/12/04

Project: LDW Seep Sampling
Event: NA
Date Sampled: 06/30/04
Date Received: 06/30/04

Client ID: LDW-SP-82-C-FD-F
ARI ID: 04-10237 GU45H

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070104#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
GU45-Windward Environmental



Matrix: Water
Data Release Authorized: *ah*
Reported: 07/12/04

Project: LDW Seep Sampling
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Suspended Solids	07/07/04	mg/L	< 1.0 U
Total Organic Carbon	07/01/04	mg/L	< 1.50 U
Dissolved Organic Carbon	07/09/04	mg/L	< 1.50 U

LAB CONTROL RESULTS-CONVENTIONALS
GU45-Windward Environmental



Matrix: Water
Data Release Authorized: *att*
Reported: 07/12/04

Project: LDW Seep Sampling
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Suspended Solids	07/07/04	mg/L	49.5	50.0	99.0%

STANDARD REFERENCE RESULTS-CONVENTIONALS
GU45-Windward Environmental



Matrix: Water
Data Release Authorized: *arf*
Reported: 07/12/04

Project: LDW Seep Sampling
Event: NA
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon SPEX #25-161AS	07/01/04	mg/L	19.6	20.0	98.0%
Dissolved Organic Carbon SPEX #25-161AS	07/09/04	mg/L	21.6	20.0	108.0%

REPLICATE RESULTS-CONVENTIONALS
GU45-Windward Environmental



Matrix: Water
Data Release Authorized: *asp*
Reported: 07/12/04

Project: LDW Seep Sampling
Event: NA
Date Sampled: 06/30/04
Date Received: 06/30/04

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: GU45A Client ID: LDW-SP-48-C-U					
Total Suspended Solids	07/07/04	mg/L	12.4	13.1	5.5%

SAMPLE RESULTS-CONVENTIONALS
GU59-Windward Environmental



Matrix: Water
Data Release Authorized: *AR*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/01/04
Date Received: 07/01/04

Client ID: LDW-SP-10-C-F
ARI ID: 04-10337 GU59A

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070104#1	EPA 415.1	mg/L	1.50	2.41

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU59-Windward Environmental



Matrix: Water
Data Release Authorized: *2-1*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/01/04
Date Received: 07/01/04

Client ID: LDW-SP-12-C-F
ARI ID: 04-10338 GU59B

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070104#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU59-Windward Environmental



Matrix: Water
Data Release Authorized: *RA*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/01/04
Date Received: 07/01/04

Client ID: LDW-SP-20-C-F
ARI ID: 04-10339 GU59C

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070104#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU59-Windward Environmental



Matrix: Water
Data Release Authorized: *AAA*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/01/04
Date Received: 07/01/04

Client ID: LDW-SP-41-C-F
ARI ID: 04-10340 GU59D

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070104#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU59-Windward Environmental



Matrix: Water
Data Release Authorized:
Reported: 07/12/04

Handwritten initials

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/01/04
Date Received: 07/01/04

Client ID: LDW-SP-12-C-U
ARI ID: 04-10341 GU59E

Analyte	Date	Method	Units	RL	Sample
Total Suspended Solids	07/02/04 070204#1	EPA 160.2	mg/L	1.0	15.6
Total Organic Carbon	07/01/04 070104#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU59-Windward Environmental



Matrix: Water
Data Release Authorized: *AR*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/01/04
Date Received: 07/01/04

Client ID: LDW-SP-20-C-U
ARI ID: 04-10342 GU59F

Analyte	Date	Method	Units	RL	Sample
Total Suspended Solids	07/02/04 070204#1	EPA 160.2	mg/L	1.0	4.3
Total Organic Carbon	07/01/04 070104#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU59-Windward Environmental



Matrix: Water
Data Release Authorized: *awg*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/01/04
Date Received: 07/01/04

Client ID: LDW-SP-41-C-U
ARI ID: 04-10343 GU59G

Analyte	Date	Method	Units	RL	Sample
Total Suspended Solids	07/02/04 070204#1	EPA 160.2	mg/L	1.0	4.0
Total Organic Carbon	07/01/04 070104#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU59-Windward Environmental



Matrix: Water
Data Release Authorized: *RA-R*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/01/04
Date Received: 07/01/04

Client ID: LDW-SP-39-C-F
ARI ID: 04-10344 GU59H

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070104#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU59-Windward Environmental



Matrix: Water
Data Release Authorized: *RLR*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/01/04
Date Received: 07/01/04

Client ID: LDW-SP-80-C-F
ARI ID: 04-10345 GU59I

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070604#1	EPA 415.1	mg/L	1.50	14.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU59-Windward Environmental



Matrix: Water
Data Release Authorized: *AWR*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/01/04
Date Received: 07/01/04

Client ID: LDW-SP-39-C-U
ARI ID: 04-10346 GU59J

Analyte	Date	Method	Units	RL	Sample
Total Suspended Solids	07/02/04 070204#1	EPA 160.2	mg/L	1.0	5.8
Total Organic Carbon	07/01/04 070104#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU59-Windward Environmental



Matrix: Water
Data Release Authorized: *AR*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/01/04
Date Received: 07/01/04

Client ID: LDW-SP-80-C-U
ARI ID: 04-10347 GU59K

Analyte	Date	Method	Units	RL	Sample
Total Suspended Solids	07/02/04 070204#1	EPA 160.2	mg/L	1.1	33.3
Total Organic Carbon	07/01/04 070104#1	EPA 415.1	mg/L	1.50	13.4

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
GU59-Windward Environmental



Matrix: Water
Data Release Authorized: *awp*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Suspended Solids	07/02/04	mg/L	< 1.0 U
Total Organic Carbon	07/01/04	mg/L	< 1.50 U
Dissolved Organic Carbon	07/09/04	mg/L	< 1.50 U

LAB CONTROL RESULTS-CONVENTIONALS
GU59-Windward Environmental



Matrix: Water
Data Release Authorized:
Reported: 07/12/04

DR

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Suspended Solids	07/02/04	mg/L	49.6	50.0	99.2%

STANDARD REFERENCE RESULTS-CONVENTIONALS
GU59-Windward Environmental



Matrix: Water
Data Release Authorized: *arl*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon SPEX #25-161AS	07/01/04	mg/L	19.6	20.0	98.0%
Dissolved Organic Carbon ERA #0206-02-02	07/09/04	mg/L	21.6	20.0	108.0%

REPLICATE RESULTS-CONVENTIONALS
GU59-Windward Environmental



Matrix: Water
Data Release Authorized: *AWP*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/01/04
Date Received: 07/01/04

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: GU59A Client ID: LDW-SP-10-C-F					
Dissolved Organic Carbon	07/09/04	mg/L	2.41	< 1.50	NA
ARI ID: GU59G Client ID: LDW-SP-41-C-U					
Total Suspended Solids	07/02/04	mg/L	4.0	10.2	87.3%
Total Organic Carbon	07/01/04	mg/L	< 1.50	< 1.50	NA

MS/MSD RESULTS-CONVENTIONALS
GU59-Windward Environmental



Matrix: Water
Data Release Authorized: *AW*
Reported: 07/12/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/01/04
Date Received: 07/01/04

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: GU59A Client ID: LDW-SP-10-C-F						
Dissolved Organic Carbon	07/09/04	mg/L	2.41	26.4	20.0	120.0%
ARI ID: GU59G Client ID: LDW-SP-41-C-U						
Total Organic Carbon	07/01/04	mg/L	< 1.50	21.7	20.0	108.5%

SAMPLE RESULTS-CONVENTIONALS
GU76-Windward Environmental



Matrix: Water
Data Release Authorized: *AR*
Reported: 07/16/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/02/04
Date Received: 07/02/04

Client ID: LDW-SP-62-C-F
ARI ID: 04-10430 GU76A

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070904#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU76-Windward Environmental



Matrix: Water
Data Release Authorized: *aw*
Reported: 07/16/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/02/04
Date Received: 07/02/04

Client ID: LDW-SP-61-C-U
ARI ID: 04-10431 GU76B

Analyte	Date	Method	Units	RL	Sample
Total Suspended Solids	07/07/04 070704#1	EPA 160.2	mg/L	2.2	16.2
Total Organic Carbon	07/15/04 071504#1	EPA 415.1	mg/L	1.50	2.57

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU76-Windward Environmental



Matrix: Water
Data Release Authorized: *and*
Reported: 07/16/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/02/04
Date Received: 07/02/04

Client ID: LDW-SP-61-C-F
ARI ID: 04-10432 GU76C

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070604#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
GU76-Windward Environmental



Matrix: Water
Data Release Authorized: *AR*
Reported: 07/16/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Suspended Solids	07/07/04	mg/L	< 1.0 U
Total Organic Carbon	07/15/04	mg/L	< 1.50 U
Dissolved Organic Carbon	07/09/04	mg/L	< 1.50 U

LAB CONTROL RESULTS-CONVENTIONALS
GU76-Windward Environmental



Matrix: Water
Data Release Authorized: *ASR*
Reported: 07/16/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Suspended Solids	07/07/04	mg/L	49.9	50.0	99.8%

STANDARD REFERENCE RESULTS-CONVENTIONALS
GU76-Windward Environmental



Matrix: Water
Data Release Authorized: *QAR*
Reported: 07/16/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon SPEX #25-161AS	07/15/04	mg/L	20.3	20.0	101.5%
Dissolved Organic Carbon ERA #0206-02-02	07/09/04	mg/L	21.6	20.0	108.0%

REPLICATE RESULTS-CONVENTIONALS
GU76-Windward Environmental



Matrix: Water
Data Release Authorized: *GR*
Reported: 07/16/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/02/04
Date Received: 07/02/04

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: GU76B Client ID: LDW-SP-61-C-U					
Total Suspended Solids	07/07/04	mg/L	16.2	15.3	5.7%

SAMPLE RESULTS-CONVENTIONALS
GU83-Windward Environmental



Matrix: Water
Data Release Authorized: *RAA*
Reported: 07/16/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/03/04
Date Received: 07/03/04

Client ID: LDW-SP-75-C-U
ARI ID: 04-10461 GU83A

Analyte	Date	Method	Units	RL	Sample
Total Suspended Solids	07/07/04 070704#1	EPA 160.2	mg/L	2.3	24.9
Total Organic Carbon	07/15/04 071504#1	EPA 415.1	mg/L	1.50	3.18

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU83-Windward Environmental



Matrix: Water
Data Release Authorized: *QAP*
Reported: 07/16/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/03/04
Date Received: 07/03/04

Client ID: LDW-SP-75-C-F
ARI ID: 04-10462 GU83B

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070604#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
GU83-Windward Environmental



Matrix: Water
Data Release Authorized: *AR*
Reported: 07/16/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/02/04
Date Received: 07/03/04

Client ID: LDW-SP-64-C-F
ARI ID: 04-10466 GU83F

Analyte	Date	Method	Units	RL	Sample
Dissolved Organic Carbon	07/09/04 070604#1	EPA 415.1	mg/L	1.50	1.75

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
GU83-Windward Environmental



Matrix: Water
Data Release Authorized: *ajp*
Reported: 07/16/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Suspended Solids	07/07/04	mg/L	< 1.0 U
Total Organic Carbon	07/15/04	mg/L	< 1.50 U
Dissolved Organic Carbon	07/09/04	mg/L	< 1.50 U

LAB CONTROL RESULTS-CONVENTIONALS
GU83-Windward Environmental



Matrix: Water
Data Release Authorized: *ADP*
Reported: 07/16/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Suspended Solids	07/07/04	mg/L	49.9	50.0	99.8%

STANDARD REFERENCE RESULTS-CONVENTIONALS
GU83-Windward Environmental



Matrix: Water
Data Release Authorized: *QA*
Reported: 07/16/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon SPEX #25-161AS	07/15/04	mg/L	20.3	20.0	101.5%
Dissolved Organic Carbon ERA #0206-02-02	07/09/04	mg/L	21.6	20.0	108.0%

REPLICATE RESULTS-CONVENTIONALS
GU83-Windward Environmental



Matrix: Water
Data Release Authorized: *AA*
Reported: 07/16/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/03/04
Date Received: 07/03/04

Analyte	Date	Units	Sample	Replicate (s)	RPD/RSD
ARI ID: GU83A Client ID: LDW-SP-75-C-U					
Total Suspended Solids	07/07/04	mg/L	24.9	23.7	4.9%
Total Organic Carbon	07/15/04	mg/L	3.18	3.11	2.2%

MS/MSD RESULTS-CONVENTIONALS
GU83-Windward Environmental



Matrix: Water
Data Release Authorized: *OK*
Reported: 07/16/04

Project: LDW-SEEP SAMPLING
Event: NA
Date Sampled: 07/03/04
Date Received: 07/03/04

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: GU83A Client ID: LDW-SP-75-C-U						
Total Organic Carbon	07/15/04	mg/L	3.18	23.8	20.0	103.1%



**Frontier
GeoSciences Inc.**

414 Pontius Ave N
Seattle, WA 98109

206-622-6960
fax 206-622-6870

RE: Lower Duwamish Waterway Seeps Project
Project # 04-08-06-20

November 12, 2004

Susan McGroddy
Windward Environmental
200 West Mercer St., Suite 401
Seattle, WA 98119
Main Line: (206) 378-1364
Fax: (206) 217-0089

SUBJECT: Report for the Samples Collected from June 29
to July 3, 2004.

Dear Ms. McGroddy,

Enclosed please find the revised results for trace metals and mercury in the water samples collected from June 29 to July 3, 2004. The samples were received in good condition by Frontier Geosciences Inc. from July 29 to July 3, 2004.

There were no significant analytical issues and any QC issues experienced are addressed within the following report. Please feel free to contact me if you have any questions regarding this report.

Sincerely,

Frank Colich

Frank Colich
Project Manager
Frankc@Frontiergeosciences.com

**Windward Environmental
Report to Susan McGroddy**

**RE: Lower Duwamish Waterway Seeps Project
Project # 04-08-06-20**

November 12, 2004

Frank Colich
Frontier Geosciences Inc.
414 Pontius Ave. N
Seattle, WA 98109
(206) 622-6960

1. Scope of Work

A total of forty samples were submitted for trace metals analysis and total mercury analysis from June 29 to July 3, 2004. The samples were analyzed using high-level QA/QC documentation.

Please note that this is a revised report. There are three revisions that were made to the report and are as follows:

The sample LDW-SP-80-C-F was had an original nickel concentration reported as a non-detect at ND (< 0.07). The report has been changed to reflect nickel's reporting limit of 0.04. The new result is ND (0.04).

The batch identifiers for Cr and Cd were reported as A3 on the matrix duplicate and matrix spike reports. The correct batch ID is A4 and this report has been changed to reflect that identifier.

Samples results were reported as preparation blank corrected. The report has been changed to reflect all results without preparation blank correction. The ICP-MS datasets have been relabeled with a suffix of -nPBW to reflect the correction. The CV-AFS and HG-HFS datasets have maintained their original labels.

2. Sample Receipt

Due to the fact that Frontier is based within a few miles from the sampling site, the samples were hand delivered on the same day that sampling occurred. Samples typically arrived at Frontier between three to four o'clock PM. Upon arrival, samples were immediately received and sent to the lab for preservation and filtration where necessary.

The samples were received and logged in according to FGS protocols on the day of receipt. Sample processing took place using ultra-clean sample handling techniques in clean areas known to be low in atmospheric mercury (and presumably other trace elements as well). Reagents, gases, and DI water are all reagent or ultra-pure grade, and were previously analyzed for trace metals to ensure very low blanks. Samples designated for dissolved analysis were filtered using a 0.45 um-disposable Nalgene filter unit. Immediately after the samples arrived at Frontier Geosciences, the samples were preserved to 1% (v/v) with HNO₃. This only occurred for the first sampling event. After the first event the trace metals bottles were sent to Windward with preservative in the bottles. When these bottles were received, the pH was check upon receipt to ensure proper preservation of the samples. All samples requiring trace metals analyses were oven-digested at 85°C overnight prior to analysis by inductively coupled plasma-mass spectroscopy (ICP-MS) according to EPA Method 200.8.

Original samples for total mercury analysis were preserved and oxidized to 1% to 5% (v/v) with BrCl and digested overnight at room temperature prior to analysis by cold vapor atomic fluorescence spectroscopy (CVAFS) according to EPA Method 1631. Prior to preservation the samples were filtered using 1.0 um PES filter units that were specifically purchased for this project.

The samples identified as LDW-SP-39-F and LDW-SP-39-C-U that were collected on July 1, 2004, were mistakenly delivered to ARI in Seattle. These samples were delivered to Frontier by ARI's courier on July 2, 2004. Since the samples arrived to Frontier within 48 hours, all samples were received within holding times and no further action was required.

3. ICP-MS Analyses

Metals were determined using inductively coupled plasma – mass spectrometry (ICP-MS) with a Perkin-Elmer ELAN 6000. Prepared samples were introduced

into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions were extracted from the plasma through a differentially pumped vacuum interface and separated based on their mass-to-charge ratio (m/z) by a mass spectrometer. A solid-state detector detects ions transmitted through the mass analyzer and the resulting current is processed by a data handling system. Daily analytical runs were begun with a 6-point standard curve, spanning the entire analytical range of interest, with additional continuing calibration verification (CCV) standards run every 10 samples. The daily standard curves were calculated with the initial standards (calibration blank corrected) of the day, using linear regression, forced through zero (Access Database software). All sample results are reported blank corrected. The ICP-MS software performs most calculations for trace metals determination automatically, and outputs hardcopies with results in $\mu\text{g/L}$ units uncorrected for the preparation blanks and instrument blanks. All samples were corrected for the instrument blanks but were **not** preparation blank corrected according to the following equation.

C is the sample concentration calculated by ICP-MS software in $\mu\text{g/L}$ units

DF is the dilution factor of the sample

IB is the mean concentration of the instrument blanks in $\mu\text{g/L}$ units

$$[\text{Metal}] (\mu\text{g/L}) = C - (\text{DF} * \text{IB})$$

To assist with identifying analytical batches, each ICP-MS dataset was given a specific label. There were four ICP-MS analytical batches and are determined as follows:

ICPMS1-040706-1-nPBW was analyzed on July 6, 2004 and is labeled as Batch ID of A1.

ICPMS1-040713-1-nPBW was analyzed on July 13, 2004 and is labeled as Batch ID of A2.

ICPMS3-040714-1A-nPBW was analyzed on July 14, 2004 and is labeled as Batch ID of A3.

ICPMS3-040715-1-nPBW was analyzed on July 15, 2004 and is labeled as Batch ID of A4.

4. Total Mercury Analysis

Samples were analyzed for total mercury in accordance with EPA Method 1631E on March 24, 2004. Aliquots of the samples were weighed out in Teflon containers, $\text{NH}_2\text{OH} \cdot \text{HCl}$ was added to destroy free halogens, and then each sample was poured into pre-purged bubblers. Then SnCl_2 was added to reduce Hg (II) to Hg^0 , which was then purged onto gold traps as a preconcentration step. The Hg^0 contained on the gold traps was then analyzed by thermal desorption into a CVAFS, using the dual amalgamation technique. Peak areas were assessed by integrators. All samples were corrected for the instrument (bubbler) blanks, but the sample concentrations were **not** corrected for the preparation blanks. Net THg concentrations were calculated according to the following formula, where **PA** is the integrator peak area, **b** is the mean bubbler blank, **V** is the digest volume (in liters), **F_D** is the dilution factor associated with preserving the samples, and **S** is the calibration curve slope in units/ng:

$$[\text{THg}] (\text{ng/L}) = \frac{[(\text{PA}-\text{b}/\text{S})/(\text{V})]}{\text{F}_D}$$

To assist with identifying analytical batches, each CV-AFS dataset was given a specific label. There were four CV-AFS analytical batches and are determined as follows:

THg11-040709-1 was analyzed on July 9, 2004 and is labeled as Batch ID B1.

THg12-040709-1 was analyzed on July 9, 2004 and is labeled as Batch ID B2.

Thg12-040714-1 was analyzed on July 14, 2004 and is labeled as Batch ID B3.

5. Arsenic Analysis

Aliquots of the digested samples were analyzed for arsenic content by hydride generation - atomic fluorescence spectroscopy (HG-AFS) according to SM3114-C. Samples were treated with potassium-iodide (KI) to reduce all inorganic arsenic in the sample to As(III). Reaction of the sample with sodium borohydride releases gaseous arsine hydrides that are carried by an argon stream into a hydrogen-fueled flame placed in the path of an atomic fluorescence detector. Blank samples were analyzed undiluted (1.43x) while most samples were analyzed at a 5x dilution. Results were automatically downloaded to an MS Access database, where calculations and blank correction for the mean of the instrument blanks were performed. All samples were corrected for the

instrument blanks but were **not** preparation blank corrected according to the following equation.

$$C_s \text{ (ng/L)} = [(PH_s - PH_{ib})/m * DF_s]_b$$

Where:

C_s = sample concentration

PH_s = peak height of the sample

PH_{ib} = mean peak height of the instrument blanks (IBWs)

m = slope of the calibration curve corrected for the IBWs

DF_s = dilution factor of the sample

To assist with identifying analytical batches, each HV-AFS dataset was given a specific label. There were four HV-AFS analytical batches and are determined as follows:

AFS1-040721-1 was analyzed on July 21, 2004 and is labeled as Batch ID C1.

AFS1-040720-1 was analyzed on July 20, 2004 and is labeled as Batch ID C2.

6. Analytical Issues

There were no significant analytical difficulties experienced during the analysis of these samples and all QC parameters were within established control limits with the following exceptions:

As a measure of the accuracy of the methods used, certified reference materials (CRMs) were prepared and analyzed with each analytical batch according to the matrix. Since there is no CRM available for a seep samples, the CRM's analyzed were NIST 1640 and NIST 1641d, which are river water matrices. The control limits for CRM recoveries are 75-125%. All CRM results are within the control limits.

All calibration curves have correlation coefficients of at least 0.995, and all calibration check samples (ICVs and CCVs) were within the control limits of 75-125% recovery, with the following exception. The ICP-MS analysis for silver for batch A1 yielded low CCV recoveries, below the 75% limit. Due to the low recoveries silver is not reported from this analytical run. All samples were re-analyzed for silver and are reported from batch A2.

As a measure of the accuracy of the methods used, and to check for matrix interference, matrix spikes were digested and analyzed. All matrix spikes were

within the control limits of 75-125%, with the following exceptions. The matrix spike recoveries for Ni and Cu in batch A3 yielded recoveries that were below the established control limits. The samples were also analyzed at a 10X dilution. At that dilution there was no suppression of the spike recovery; therefore, all analytes reported from Batch ID A3 are reported from the 10X dilution.

The matrix spikes for chromium and cadmium in batch A3 were mistakenly not spiked by the ICP-MS analyst. These samples were immediately re-analyzed with the proper spiking solution added. These samples are reported from batch ID A4.

A reasonable measure of the precision of the analytical methods is to look at the RPD between matrix duplicates or matrix spike sample concentration and a matrix spike duplicate sample concentration. All RPD's were less than the control limit of 25% with the following exceptions. The recovery for the matrix spike duplicate performed on the samples identified as LDW-SP-61 U for silver and LDW-SP-75-C U for cadmium exceeded the established control limit of 25% at 39.7% and 39.4%, respectively. Since both the native sample and its duplicate were 3 times higher than the reporting limit, variation is expected to increase, therefore, this is not considered significant. Since all other forms of QC are in control for these batches, no further action was taken.

It should be noted that one matrix duplicate RPD for Cr and Ni are reported as not calculated due to native or duplicate concentrations below the reporting limit. At such low concentrations variability is expected to increase; therefore, no corrective action was taken and Frontier maintains confidence in the results reported.

There were a number of samples analyzed for chromium that yielded a dissolved concentration that was significantly higher than the total fraction. All samples were re-analyzed for confirmation purposes. The re-analysis confirmed the fractionation discrepancy, therefore only the original analysis was reported.

Please contact me with any questions or concerns regarding this report.

**Trace Metals Results for Windward Environmental
LDW - Seep Sampling Project**

Reported November 12, 2004

Frontier Geosciences Inc., 414 Pontius Ave. N, Seattle WA 98109

Sample Results

Analyte (µg/L)	Batch ID	LDW-SP-69-C-U	LDW-SP-69-C-F	LDW-SP-71-C-U	LDW-SP-71-C-F
Date Collected		6/29/04	6/29/04	6/29/04	6/29/04
Cr	A1	2.91	3.10	4.24	2.03
Ni	A1	4.52	3.22	3.44	1.95
Cu	A1	8.06	4.63	12.1	6.07
Zn	A1	45.6	3.95	26.9	10.2
As	C2	1.64	1.47	1.91	1.02
Ag	A2	0.053	0.053	0.068	0.070
Cd	A1	0.112	0.016	0.078	0.023
Pb	A1	0.356	0.066	15.2	0.175
Hg (ng/L)	B1	12.7	3.49	32.2	2.01

Analyte (µg/L)	Batch ID	LDW-SP-76-C-U	LDW-SP-76-C-F	LDW-SP-69-C-AB
Date Collected		6/29/04	6/29/04	6/29/04
Cr	A1	5.67	7.04	-
Ni	A1	3.79	2.37	-
Cu	A1	50.9	3.28	-
Zn	A1	309	138	-
As	C2	287	253	-
Ag	A2	0.077	0.012	-
Cd	A1	0.204	0.091	-
Pb	A1	56.4	3.00	-
Hg (ng/L)	B1	61.6	15.3	ND (< 0.15)

**Trace Metals Results for Windward Environmental
LDW - Seep Sampling Project**

Reported November 12, 2004

Frontier Geosciences Inc., 414 Pontius Ave. N, Seattle WA 98109

Sample Results

Analyte (µg/L)	Batch ID	LDW-SP-48-C-U	LDW-SP-48-C-F	LDW-SP-54-C-U	LDW-SP-54-C-F
Date Collected		6/30/04	6/30/04	6/30/04	6/30/04
Cr	A1	4.72	7.58	74.9	4.02
Ni	A1	2.83	1.56	3.92	0.84
Cu	A1	10.9	10.1	6.47	4.53
Zn	A1	17.7	15.8	322	5.45
As	C2	0.618	0.422	1.30	0.404
Ag	A2	0.051	0.053	ND (< 0.015)	ND (< 0.015)
Cd	A1	0.138	0.101	0.710	0.012
Pb	A1	1.11	0.154	296	0.703
Hg (ng/L)	B1	1.09	1.32	582	13.2

Analyte (µg/L)	Batch ID	LDW-SP-82-C-U	LDW-SP-82-C-F	LDW-SP-82-FD-U	LDW-SP-82-FD-F	LDW-SP-82-C-AB
Date Collected		6/30/04	6/30/04	6/30/04	6/30/04	6/30/04
Cr	A1	5.65	3.25	5.81	3.51	-
Ni	A1	5.83	3.56	6.12	3.36	-
Cu	A1	10.9	8.22	13.4	8.27	-
Zn	A1	186	164	201	158	-
As	C2	1.55	1.20	2.20	1.14	-
Ag	A2	0.088	0.113	0.126	0.084	-
Cd	A1	0.569	0.513	0.606	0.503	-
Pb	A1	2.31	0.206	8.29	0.201	-
Hg (ng/L)	B1	16.8	3.80	11.7	2.95	ND (<0.15)

**Trace Metals Results for Windward Environmental
LDW - Seep Sampling Project**

Reported November 12, 2004

Frontier Geosciences Inc., 414 Pontius Ave. N, Seattle WA 98109

Revised on November 12, 2004

Sample Results

Analyte (µg/L)	Batch ID	LDW-SP-12-C-U	LDW-SP-12-C-F	LDW-SP-20-C-U	LDW-SP-20-C-F
Date Collected		7/1/04	7/1/04	7/1/04	7/1/04
Cr	A1	6.34	7.06	11.4	8.80
Ni	A1	8.03	4.24	8.83	5.25
Cu	A1	15.8	12.5	10.2	8.16
Zn	A1	16.1	14.1	10.8	8.08
As	C1	1.13	0.771	1.58	1.35
Ag	A2	0.033	0.053	0.086	0.112
Cd	A1	0.133	0.107	0.114	0.111
Pb	A1	0.823	0.129	1.44	0.096
Hg (ng/L)	B2	5.18	0.74	0.61	0.62

Analyte (µg/L)	Batch ID	LDW-SP-41-C-U	LDW-SP-41-C-F	LDW-SP-80-C-U	LDW-SP-80-C-F
Date Collected		7/1/04	7/1/04	7/1/04	7/1/04
Cr	A1	3.68	6.95	4.61	6.70
Ni	A1	4.71	2.23	2.80	ND (<0.04)
Cu	A1	5.96	5.24	21.4	22.8
Zn	A1	7.14	6.07	14.1	16.8
As	C1	0.239	0.235	0.855	0.590
Ag	A2	0.026	0.036	ND (<0.015)	ND (<0.015)
Cd	A1	0.158	0.133	0.037	0.011
Pb	A1	0.080	0.036	0.277	0.078
Hg (ng/L)	B2	1.12	0.62	6.46	8.69

Trace Metals Results for Windward Environmental**LDW - Seep Sampling Project**

Reported November 12, 2004

Frontier Geosciences Inc., 414 Pontius Ave. N, Seattle WA 98109

Sample Results

Analyte (µg/L)	Batch ID	LDW-SP-39-C-U	LDW-SP-39-C-F	LDW-SP-10-C-F
Date Collected		7/1/04	7/1/04	7/1/04
Cr	A1	6.01	4.36	6.31
Ni	A1	6.43	2.78	1.32
Cu	A1	12.2	10.1	8.69
Zn	A1	9.90	8.30	11.97
As	C1	0.058	0.054	0.841
Ag	A2	0.025	0.028	0.021
Cd	A1	0.272	0.206	0.085
Pb	A1	0.161	0.051	0.252
Hg (ng/L)	B2	0.95	0.87	0.92

Analyte (µg/L)	Batch ID	LDW-SP-80-C-AB-U	LDW-SP-20-C-AB-U
Date Collected		7/1/04	7/1/04
Cr	-	-	-
Ni	-	-	-
Cu	-	-	-
Zn	-	-	-
As	-	-	-
Ag	-	-	-
Cd	-	-	-
Pb	-	-	-
Hg (ng/L)	B2	ND (<0.15)	ND (<0.15)

**Trace Metals Results for Windward Environmental
LDW - Seep Sampling Project**

Reported November 12, 2004

Frontier Geosciences Inc., 414 Pontius Ave. N, Seattle WA 98109

Sample Results

Analyte (µg/L)	Batch ID	LDW-SP-62-C-F	LDW-SP-61-C-U	LDW-SP-61-C-F
Date Collected		7/2/04	7/2/04	7/2/04
Cr	A4	7.73	0.12	1.83
Ni	A3	ND (< 0.04)	ND (< 0.04)	ND (< 0.04)
Cu	A3	7.77	4.75	4.72
Zn	A3	12.2	3.53	3.29
As	C1	6.84	67.2	72.4
Ag	A3	0.044	0.039	0.027
Cd	A4	0.109	0.022	0.009
Pb	A3	0.101	0.233	0.088
Hg (ng/L)	B3	2.56	2.16	0.99

Analyte (µg/L)	Batch ID	LDW-SP-64-C-F	LDW-SP-62-C-AB
Date Collected		7/2/04	7/2/04
Cr	A4	1.51	-
Ni	A3	ND (< 0.04)	-
Cu	A3	6.99	-
Zn	A3	3.86	-
As	C1	1.28	-
Ag	A3	0.049	-
Cd	A4	0.045	-
Pb	A3	0.193	-
Hg (ng/L)	B3	1.26	ND (<0.15)

Trace Metals Results for Windward Environmental

LDW - Seep Sampling Project

Reported November 12, 2004

Frontier Geosciences Inc., 414 Pontius Ave. N, Seattle WA 98109

Sample Results

Analyte (µg/L)	Batch ID	LDW-SP-75-C-U	LDW-SP-75-C-F	LDW-SP-75-C-RB-U	LDW-SP-75-C-RB-F
Date Collected		7/3/04	7/3/04	7/3/04	7/3/04
Cr	A1	5.37	9.74	-	-
Ni	A1	3.31	1.42	-	-
Cu	A1	8.37	6.79	-	-
Zn	A1	8.39	5.35	-	-
As	C1	2.49	2.20	-	-
Ag	A2	0.074	0.081	-	-
Cd	A1	0.037	0.021	-	-
Pb	A1	0.666	0.056	-	-
Hg (ng/L)	B2	1.71	0.77	0.20	ND (<0.15)

Analyte (µg/L)	Batch ID	LDW-SP-64-S-RB-U	LDW-SP-64-C-RB-MP-U	Funnel Blank	Piezometer Blank
Date Collected		7/3/04	7/3/04	7/8/04	7/8/04
Cr	A1	5.25	4.05	-	-
Ni	A1	0.17	0.18	-	-
Cu	A1	1.61	1.59	-	-
Zn	A1	0.98	0.75	-	-
As	C1	ND (< 0.050)	ND (< 0.050)	-	-
Ag	A2	ND (< 0.015)	ND (< 0.015)	-	-
Cd	A1	ND (< 0.008)	ND (< 0.008)	-	-
Pb	A1	0.087	0.091	-	-
Hg (ng/L)	B2/B1	ND (<0.15)	0.16	0.13	ND (<0.15)

**Trace Metals Results for Windward Environmental
LDW - Seep Sampling Project**

Reported November 12, 2004

Frontier Geosciences Inc., 414 Pontius Ave. N, Seattle WA 98109

Revised on August 18, 2004

Quality Control Data - Duplicate Report

Analyte (µg/L)	Batch ID	Sample QC'd	Rep. 1	Rep. 2	Mean	RPD
Cr	A1	LDW-SP-75-C U	5.37	5.38	5.37	0.0
	A1	LDW-SP-48-C U	4.72	4.58	4.65	3.0
	A4	LDW-SP-61-C-U	0.12	ND (< 0.07)	N/C	N/C
Ni	A1	LDW-SP-75-C U	3.31	3.65	3.48	9.6
	A1	LDW-SP-48-C U	2.83	3.63	3.23	24.8
	A3	LDW-SP-61-C-U	ND (< 0.04)	ND (< 0.04)	N/C	N/C
Cu	A1	LDW-SP-75-C U	8.37	8.49	8.43	1.5
	A1	LDW-SP-48-C U	10.95	11.28	11.1	2.9
	A3	LDW-SP-61-C-U	4.75	4.80	4.77	1.1
Zn	A1	LDW-SP-75-C U	8.39	8.32	8.35	0.8
	A1	LDW-SP-48-C U	17.65	17.72	17.69	0.4
	A3	LDW-SP-61-C-U	3.53	3.44	3.48	2.5
As	C1	LDW-SP-41-C U	0.239	0.220	0.230	8.3
	C2	LDW-SP-82-C U	1.545	1.360	1.453	12.8
Ag	A2	LDW-SP-75-C U	0.074	0.062	0.068	17.2
	A2	LDW-SP-48-C U	0.051	0.056	0.053	9.2
	A3	LDW-SP-61-C-U	0.039	0.020	0.030	65.9*
Cd	A1	LDW-SP-75-C U	0.037	0.025	0.031	39.9*
	A1	LDW-SP-48-C U	0.138	0.116	0.127	17.8
	A4	LDW-SP-61-C-U	0.020	0.021	0.021	6.1
Pb	A1	LDW-SP-75-C U	0.666	0.633	0.650	5.1
	A1	LDW-SP-48-C U	1.112	1.013	1.063	9.3
	A3	LDW-SP-61-C-U	0.233	0.246	0.239	5.4
Hg (ng/L)	B1	LDW-SP-69-C-U	12.72	12.70	12.7	0.2
	B2	LDW-SP-39-C-U	0.95	0.92	0.93	3.6
	B3	LDW-SP-61-C-U	2.16	2.15	2.15	0.7

N/C = Not calculated, please see case narrative.

*RPD is above established control limits. Please see case narrative.

**Trace Metals Results for Windward Environmental
LDW - Seep Sampling Project**

Reported November 12, 2004

Frontier Geosciences Inc., 414 Pontius Ave. N, Seattle WA 98109

Revised on August 18, 2004

Quality Control Data - Matrix Spike / Matrix Spike Duplicate Report

Analyte (µg/L)	Batch ID	Sample QC'd	Sample Mean	Spike Level	MS	% Rec.	MSD	% Rec.	RPD
Cr	A1	LDW-SP-75-C U	5.37	200.0	192.8	93.7	191.3	93.0	0.7
	A1	LDW-SP-48-C U	4.65	200.0	196.6	96.0	192.9	94.1	1.9
	A4	LDW-SP-61-C-U	0.00	250.0	244.6	97.8	245.4	98.2	0.3
Ni	A1	LDW-SP-75-C U	3.48	250.0	215.5	84.8	208.8	82.1	3.1
	A1	LDW-SP-48-C U	3.23	250.0	228.1	89.9	223.5	88.1	2.0
	A3	LDW-SP-61-C-U	0.00	312.5	309.8	99.1	315.6	101.0	1.9
Cu	A1	LDW-SP-75-C U	8.43	250.0	238.1	91.9	237.8	91.7	0.1
	A1	LDW-SP-48-C U	11.11	250.0	241.0	91.9	242.4	92.5	0.6
	A3	LDW-SP-61-C-U	4.77	312.5	323.1	101.9	325.8	102.7	0.8
Zn	A1	LDW-SP-75-C U	8.35	500.0	489.8	96.3	485.1	95.3	1.0
	A1	LDW-SP-48-C U	17.69	500.0	488.2	94.1	487.7	94.0	0.1
	A3	LDW-SP-61-C-U	3.48	625.0	613.5	97.6	623.5	99.2	1.6

* Recoveries are below established control limits. Please see case narrative.

**Trace Metals Results for Windward Environmental
LDW - Seep Sampling Project**

Reported November 12, 2004

Frontier Geosciences Inc., 414 Pontius Ave. N, Seattle WA 98109

Quality Control Data - Matrix Spike / Matrix Spike Duplicate Report

Analyte (µg/L)	Batch ID	Sample QC'd	Sample Mean	Spike Level	MS	% Rec.	MSD	% Rec.	RPD
As	C1	LDW-SP-41-C U	0.230	0.715	1.020	110.5	1.013	109.6	0.6
	C2	LDW-SP-82-C U	1.453	2.500	4.044	103.6	3.861	96.3	4.6
Ag	A2	LDW-SP-75-C U	0.068	40.00	36.60	91.3	38.17	95.3	4.2
	A2	LDW-SP-48-C U	0.053	40.00	37.32	93.2	38.28	95.6	2.5
	A3	LDW-SP-61-C-U	0.030	50.00	49.45	98.8	50.27	100.5	1.6
Cd	A1	LDW-SP-75-C U	0.031	20.00	19.28	96.2	19.41	96.9	0.7
	A1	LDW-SP-48-C U	0.127	20.00	19.50	96.9	19.01	94.4	2.6
	A4	LDW-SP-61-C-U	2.500	2.08	82.40	3842.2	2.13	-17.7	189.9
Pb	A1	LDW-SP-75-C U	0.650	50.00	51.86	102.4	51.43	101.6	0.8
	A1	LDW-SP-48-C U	1.063	50.00	51.50	100.9	51.14	100.2	0.7
	A3	LDW-SP-61-C-U	0.239	62.50	68.81	109.7	69.57	110.9	1.1
Hg (ng/L)	B1	LDW-SP-69-C-U	12.71	40.40	51.18	95.2	50.70	94.0	1.0
	B2	LDW-SP-39-C-U	5.18	20.20	24.32	94.8	24.04	93.4	1.1
	B3	LDW-SP-61-C-U	2.15	8.08	9.96	96.7	10.20	99.6	2.3

**Trace Metals Results for Windward Environmental
LDW - Seep Sampling Project**

Reported November 12, 2004

Frontier Geosciences Inc., 414 Pontius Ave. N, Seattle WA 98109

Quality Control Data - Certified Reference Material Report

Analyte (µg/L)	Batch ID	CRM Identity	Cert. Value	Obs. Value	% Rec.
Cr	A1	NIST 1640	38.6	35.2	91.1
	A4	NIST 1640	38.6	39.2	101.6
Ni	A1	NIST 1640	27.4	25.6	93.5
	A3	NIST 1640	27.4	27.7	101.1
Cu	A1	NIST 1640	85.2	83.9	98.4
	A3	NIST 1640	85.2	91.1	106.9
Zn	A1	NIST 1640	53.2	52.4	98.5
	A3	NIST 1640	53.2	59.2	111.3
As	C1	NIST 1640	26.67	25.56	95.8
	C2	NIST 1640	26.67	28.77	107.9
Ag	A2	NIST 1640	7.62	7.22	94.8
	A3	NIST 1640	7.62	7.91	103.7
Cd	A1	NIST 1640	22.79	22.51	98.8
	A4	NIST 1640	22.79	24.37	106.9
Pb	A1	NIST 1640	27.89	27.87	99.9
	A3	NIST 1640	27.89	29.33	105.2
Hg (ng/L)	B1	NIST 1641d	1601	1599	99.9
	B2	NIST 1641d	1601	1587	99.2
	B3	NIST 1641d	1601	1591	99.4

CRM Identity = Certified reference material identity

Cert. Value = Certified value

Obs. Value = Experimental result

% Rec. = Percent recovery

**Trace Metals Results for Windward Environmental
LDW - Seep Sampling Project**

Reported November 12, 2004

Frontier Geosciences Inc., 414 Pontius Ave. N, Seattle WA 98109

Quality Control Data - Preparation Blank Report

Analyte (µg/L)	Batch ID	PBW1	PBW2	PBW3	PBW4	Mean	Std Dev	R.L
Cr	A1	0.01	0.02	0.02	0.01	0.02	0.00	0.07
	A4	-0.03	-0.04	-0.06	-0.09	-0.05	0.03	0.07
Ni	A1	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	A3	0.00	0.00	0.00	0.00	0.00	0.00	0.04
Cu	A1	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	A3	-0.01	0.00	-0.01	0.00	-0.01	0.00	0.04
Zn	A1	0.05	0.00	0.01	-0.01	0.01	0.02	0.10
	A3	0.00	0.00	0.02	0.00	0.00	0.01	0.10
As	C1	-0.005	-0.013	0.003	-0.015	-0.008	0.008	0.050
	C2	0.003	-0.004	-0.005	-0.003	-0.002	0.004	0.050
Ag	A2	-0.001	-0.001	0.000	0.000	-0.001	0.000	0.015
	A3	0.000	0.000	0.000	0.000	0.000	0.000	0.015
Cd	A1	0.000	-0.001	0.000	-0.001	0.000	0.001	0.008
	A4	-0.001	0.000	-0.001	0.000	-0.001	0.000	0.008
Pb	A1	0.000	0.008	0.000	-0.001	0.002	0.005	0.015
	A3	0.000	0.005	0.001	0.003	0.002	0.002	0.015
Hg (ng/L)	B1	0.04	0.04	0.08	-	0.05	0.02	0.15
	B2	0.08	0.05	0.04	-	0.06	0.02	0.15
	B3	0.05	0.02	0.05	-	0.04	0.02	0.15

R.L = Reporting Limit

Std Dev = Standard deviation