SDMS DocID 2232306

ORIGINAL

LORD

LORD Corporation
2000 West Grandview Blvd.
Erie, PA 16509-1029
USA
+1 814 868 0924
www.lord.com

CERTIFIED MAIL
Mr. David P. Turner, RPM (3HS22)
Western PA Section
United States Environmental Protection Agency, Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

August 15, 2008

Reference: LORD-Shope RA Monthly Progress Report

Dear Mr. Turner:

LORD is hereby submitting two copies of the monthly progress report for the period of July 1, 2008 through July 31, 2008.

The following work was conducted during this period:

REMEDIAL ACTION

NPDES Report:

The July report will be submitted under a separate cover.

Thermal Oxidizer:

The influent was 236.7 ppm with 99.6% removal. A copy of the laboratory report is attached for your review.

Groundwater Treatment:

The groundwater treatment system was operating normally during this interim.

The groundwater TOC effluent concentration was 1.1 mg/l.

Sincerely,
LORD Corporation

George M. Kickel
Director, Environment, Safety, Health, and Regulatory Compliance

GMK08021/cmf
Attachment
cc: (b) (4) [redacted] – ARCADIS G & M, Inc.
John Morettini, PADEP (Certified Mail)

ORIGINAL

Sample Data Summary

ORIGINAL

ARCADIS U.S., Inc.

Client Sample ID: TOI/070208

GC/MS Volatiles

Lot-Sample #...: H8G030204-001 Work Order #...: KQ3D31AA Matrix.....: AIR
Date Sampled...: 07/02/08 Date Received..: 07/03/08
Prep Date.....: 07/14/08 Analysis Date..: 07/14/08
Prep Batch #...: 8197120
Dilution Factor: 3970 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	20000	ppb(v/v)
Acetonitrile	ND	4000	ppb(v/v)
Acrolein	ND	3200	ppb(v/v)
alpha-Methylstyrene	ND	1600	ppb(v/v)
Benzene	**280 J**	**790**	**ppb(v/v)**
Bromodichloromethane	ND	790	ppb(v/v)
Bromoform	ND	790	ppb(v/v)
Bromomethane	ND	790	ppb(v/v)
1,3-Butadiene	ND	1600	ppb(v/v)
2-Butanone (MEK)	ND	4000	ppb(v/v)
tert-Butyl alcohol	ND	7900	ppb(v/v)
Carbon disulfide	ND	2000	ppb(v/v)
Carbon tetrachloride	ND	790	ppb(v/v)
Chlorobenzene	**330 J**	**790**	**ppb(v/v)**
Dibromochloromethane	ND	790	ppb(v/v)
Chlorodifluoromethane	**250 J**	**790**	**ppb(v/v)**
Chloroethane	**250 J**	**790**	**ppb(v/v)**
Chloroform	**1300**	**790**	**ppb(v/v)**
Chloromethane	ND	2000	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	790	ppb(v/v)
Dibromomethane	ND	1600	ppb(v/v)
1,2-Dichlorobenzene	ND	790	ppb(v/v)
1,3-Dichlorobenzene	ND	790	ppb(v/v)
1,4-Dichlorobenzene	ND	790	ppb(v/v)
Dichlorodifluoromethane	ND	790	ppb(v/v)
1,1-Dichloroethane	**470 J**	**790**	**ppb(v/v)**
1,2-Dichloroethane	ND	790	ppb(v/v)
cis-1,2-Dichloroethene	**100000**	**790**	**ppb(v/v)**
trans-1,2-Dichloroethene	**280 J**	**790**	**ppb(v/v)**
1,1-Dichloroethene	**820**	**790**	**ppb(v/v)**
1,2-Dichloropropane	ND	790	ppb(v/v)
cis-1,3-Dichloropropene	ND	790	ppb(v/v)
trans-1,3-Dichloropropene	ND	790	ppb(v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	790	ppb(v/v)
1,4-Dioxane	ND	2000	ppb(v/v)
Ethyl acetate	ND	7900	ppb(v/v)
Ethylbenzene	ND	790	ppb(v/v)
4-Ethyltoluene	ND	1600	ppb(v/v)

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ORIGINAL

ARCADIS U.S., Inc.

Client Sample ID: TOI/070208

GC/MS Volatiles

Lot-Sample #...: H8G030204-001 Work Order #...: KQ3D31AA Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
n-Heptane	ND	2000	ppb(v/v)
Hexachlorobutadiene	ND	4000	ppb(v/v)
n-Hexane	**660 J**	**2000**	**ppb(v/v)**
2-Hexanone	ND	2000	ppb(v/v)
Cumene	ND	1600	ppb(v/v)
Methyl methacrylate	ND	2000	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	2000	ppb(v/v)
Methyl tert-butyl ether	ND	4000	ppb(v/v)
n-Octane	ND	1600	ppb(v/v)
Pentane	ND	4000	ppb(v/v)
Propene	**1200 J**	**2000**	**ppb(v/v)**
Styrene	ND	790	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	790	ppb(v/v)
Tetrachloroethene	**10000**	**790**	**ppb(v/v)**
Toluene	**420 J**	**790**	**ppb(v/v)**
1,2,4-Trichloro-benzene	ND	4000	ppb(v/v)
1,1,1-Trichloroethane	**790**	**790**	**ppb(v/v)**
1,1,2-Trichloroethane	ND	790	ppb(v/v)
Trichloroethene	**68000**	**790**	**ppb(v/v)**
Trichlorofluoromethane	ND	790	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	790	ppb(v/v)
1,2,4-Trimethylbenzene	ND	790	ppb(v/v)
1,3,5-Trimethylbenzene	ND	790	ppb(v/v)
2,2,4-Trimethylpentane	ND	2000	ppb(v/v)
Vinyl acetate	ND	4000	ppb(v/v)
Vinyl chloride	**47000**	**790**	**ppb(v/v)**
m-Xylene & p-Xylene	**1200**	**790**	**ppb(v/v)**
o-Xylene	**1200**	**790**	**ppb(v/v)**
Acrylonitrile	ND	7900	ppb(v/v)
3-Chloropropene	ND	790	ppb(v/v)
Methylene chloride	**1900 J,B**	**2000**	**ppb(v/v)**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	115	(70 - 130)
Toluene-d8	101	(70 - 130)
4-Bromofluorobenzene	105	(70 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

ORIGINAL

ARCADIS U.S., Inc.

Client Sample ID: TOE/070208

GC/MS Volatiles

Lot-Sample #...: H8G030204-002 Work Order #...: KQ3D61AA Matrix.....: AIR
Date Sampled...: 07/02/08 Date Received..: 07/03/08
Prep Date.....: 07/14/08 Analysis Date..: 07/14/08
Prep Batch #...: 8197120
Dilution Factor: 10 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)
Dichlorodifluoromethane	ND	2.0	ppb(v/v)
1,1-Dichloroethane	ND	2.0	ppb(v/v)
1,2-Dichloroethane	ND	2.0	ppb(v/v)
cis-1,2-Dichloroethene	**3.2**	**2.0**	**ppb(v/v)**
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	2.0	ppb(v/v)
1,2-Dichloropropane	ND	2.0	ppb(v/v)
cis-1,3-Dichloropropene	ND	2.0	ppb(v/v)
trans-1,3-Dichloropropene	ND	2.0	ppb(v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	2.0	ppb(v/v)
1,4-Dioxane	ND	5.0	ppb(v/v)
Ethyl acetate	ND	20	ppb(v/v)
Ethylbenzene	ND	2.0	ppb(v/v)
4-Ethyltoluene	ND	4.0	ppb(v/v)
n-Heptane	**4.2 J**	**5.0**	**ppb(v/v)**
Hexachlorobutadiene	ND	10	ppb(v/v)
n-Hexane	**2.2 J**	**5.0**	**ppb(v/v)**
2-Hexanone	**26**	**5.0**	**ppb(v/v)**
Cumene	ND	4.0	ppb(v/v)
Methyl methacrylate	ND	5.0	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	**3.4 J**	**5.0**	**ppb(v/v)**
Methyl tert-butyl ether	ND	10	ppb(v/v)
n-Octane	**6.0**	**4.0**	**ppb(v/v)**
Pentane	ND	10	ppb(v/v)
Propene	**1.0 J**	**5.0**	**ppb(v/v)**
Styrene	ND	2.0	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)
Tetrachloroethene	ND	2.0	ppb(v/v)
Toluene	ND	2.0	ppb(v/v)
1,2,4-Trichlorobenzene	ND	10	ppb(v/v)
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)
1,1,2-Trichloroethane	ND	2.0	ppb(v/v)
Trichloroethene	**2.4**	**2.0**	**ppb(v/v)**
Trichlorofluoromethane	ND	2.0	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0	ppb(v/v)

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ARCADIS U.S., Inc.

Client Sample ID: TOE/070208

GC/MS Volatiles

Lot-Sample #...: H8G030204-002 Work Order #...: KQ3D61AA Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,2,4-Trimethylbenzene	ND	2.0	ppb(v/v)
1,3,5-Trimethylbenzene	ND	2.0	ppb(v/v)
2,2,4-Trimethylpentane	ND	5.0	ppb(v/v)
Vinyl acetate	ND	10	ppb(v/v)
Vinyl chloride	**1.8 J**	**2.0**	**ppb(v/v)**
m-Xylene & p-Xylene	ND	2.0	ppb(v/v)
o-Xylene	ND	2.0	ppb(v/v)
Acrylonitrile	ND	20	ppb(v/v)
3-Chloropropene	ND	2.0	ppb(v/v)
Methylene chloride	**5.5 B**	**5.0**	**ppb(v/v)**
Acetone	**330**	**50**	**ppb(v/v)**
Acetonitrile	ND	10	ppb(v/v)
Acrolein	ND	8.0	ppb(v/v)
alpha-Methylstyrene	ND	4.0	ppb(v/v)
Benzene	ND	2.0	ppb(v/v)
Bromodichloromethane	ND	2.0	ppb(v/v)
Bromoform	ND	2.0	ppb(v/v)
Bromomethane	ND	2.0	ppb(v/v)
1,3-Butadiene	ND	4.0	ppb(v/v)
2-Butanone (MEK)	**46**	**10**	**ppb(v/v)**
tert-Butyl alcohol	**200**	**20**	**ppb(v/v)**
Carbon disulfide	**1.4 J**	**5.0**	**ppb(v/v)**
Carbon tetrachloride	ND	2.0	ppb(v/v)
Chlorobenzene	ND	2.0	ppb(v/v)
Dibromochloromethane	ND	2.0	ppb(v/v)
Chlorodifluoromethane	**0.66 J**	**2.0**	**ppb(v/v)**
Chloroethane	ND	2.0	ppb(v/v)
Chloroform	ND	2.0	ppb(v/v)
Chloromethane	**1.8 J**	**5.0**	**ppb(v/v)**
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)
Dibromomethane	ND	4.0	ppb(v/v)
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	118	(70 - 130)
Toluene-d8	97	(70 - 130)
4-Bromofluorobenzene	111	(70 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.