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FAX

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FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732) 532-4359 FAX: (732) 532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

CERTIFICATIONS: NJDEP #13461, NYSDOH #11699



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: 77th

Niagara Falls

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
Outfall #5	8014801	Aqueous	01-May-08 11:00	05/02/08

ANALYSIS:

FORT MONMOUTH ENVIRONMENTAL LAB
TCLP VOA, TCLP PESTICIDES, TCLP METALS, PCBs, IGNITABILITY, pH

QC LABORATORIES
TCLP ABN

ENCLOSURE:
CHAIN OF CUSTODY
RESULTS

Jacqueline Hamer 5/2/08
Jacqueline Hamer/Date
QA/QC Supervisor

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TCLP Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File VA779.D
 Operator ROBERTS
 Date Acquired 6-May-08

Sample Name MB 5/6/08
 Field ID METHOD 624 5/6/08
 Sample Mul 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Lev 1 (mg/l)*	MDL	Qualifiers
75-01-4	Vinyl Chloride			not detected	0.2()	0.0003 mg/L	
75-35-4	1,1-Dichloroethene			not detected	0.7()	0.0003 mg/L	
78-93-3	2-Butanone			not detected	200.00	0.0001 mg/L	
67-66-3	Chloroform			not detected	6.0()	0.0003 mg/L	
56-23-5	Carbon Tetrachloride			not detected	0.5()	0.0004 mg/L	
71-43-2	Benzene			not detected	0.5()	0.0002 mg/L	
107-06-2	1,2-Dichloroethane			not detected	0.5()	0.0003 mg/L	
79-01-6	Trichloroethene			not detected	0.5()	0.0002 mg/L	
127-18-4	Tetrachloroethene			not detected	0.7()	0.0003 mg/L	
108-90-7	Chlorobenzene			not detected	100.00	0.0002 mg/L	

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution

MDL = Method Detection Limit
 R.T. = Retention Time

* 2-Butanone = Methyl ethyl ketone
 * Sample Matrix = Leachate

TCLP Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VA791.D**
Operator **ROBERTS**
Date Acquired **6-May-08**

Sample Name **8014801**
Field ID **OUTFALL #5**
Sample Mul **1**

CAS#	Compound Name	R.T.	Response	Result	Regulator / Lev 1 (mg/l)*	MDL	Qualifiers
75-01-4	Vinyl Chloride			not detected	0.20	0.0003 mg/L	
75-35-4	1,1-Dichloroethene			not detected	0.70	0.0003 mg/L	
78-93-3	2-Butanone			not detected	200.00	0.0001 mg/L	
67-66-3	Chloroform			not detected	6.00	0.0003 mg/L	
56-23-5	Carbon Tetrachloride			not detected	0.50	0.0004 mg/L	
71-43-2	Benzene			not detected	0.50	0.0002 mg/L	
107-06-2	1,2-Dichloroethane			not detected	0.50	0.0003 mg/L	
79-01-6	Trichloroethene			not detected	0.50	0.0002 mg/L	
127-18-4	Tetrachloroethene			not detected	0.70	0.0003 mg/L	
108-90-7	Chlorobenzene			not detected	100.00	0.0002 mg/L	

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

R.T. = Retention Time

* 2-Butanone = Methyl ethyl ketone

* Sample Matrix = Leachate

U.S. Army, Fort Monmouth Environmental Laboratory.
173 Riverside Avenue, NJ 07703.

TABULATED ANALYTICAL REPORT
EPA METHOD SW 846 8081
Pesticides/PCB

MB05150801

Matrix: Aqueous

Date Extracted: 5/12/2003

Ext. Batch: 5120301

Filename: 05130821.D

Date Analyzed: 5/13/2003

Analyst: JP

<u>CAS #</u>	<u>COMPOUNDS</u>	<u>RESULTS</u> <u>(mg/L)</u>	<u>MDL</u> <u>(mg/L)</u>
58-89-9	gamma-BHC	ND	0.0077
76-44-8	Heptachlor	ND	0.0081
1024-57-3	Heptachlor epoxide	ND	0.0078
72-20-8	Endrin	ND	0.0092
72-43-5	Methoxychlor	ND	0.0150
57-74-9	Chlordane	ND	0.0710
8001-35-2	Toxaphene	ND	0.0152

MDL = METHOD DETECTION LIMIT

ND =NOT DETECTED, BELOW MDL

Initial vol. (ml):

1000.00

Final vol. (ml):

10

U. S. Army, Fort Monmouth Environmental Laboratory.

173 Riverside Avenue, NJ 07703.

Report of Analysis
NJDEP Certification # 13461
EPA Method SW 846 8081
PESTICIDES/PCB

Client: U.S. Army, DPW, SELFM-PW-EV
Project Name: Niagara Falls AFRC
Field ID: Outfall #2
Lab ID: 8014801
Filename: 05130825.D
Lab Project :

Location: 9400 Porter Rd.
MATRIX: Aqueous
Ext. Batch: 5120801
Date Extracted: 5/12/2008
Date Analyzed: 13-May-08
Dilution: 1
Analyst: JP

CAS #	COMPOUNDS	RESULTS (mg/L)	Regulatory Level (mg/L)	Qualifier	MDL (ug/L)
58-89-9	gamma-BHC	ND	0.400		0.007
76-44-8	Heptachlor	ND	0.008		0.008
1024-57-3	Heptachlor epoxide	ND	0.008		0.007
72-20-8	Endrin	ND	0.020		0.009
72-43-5	Methoxychlor	ND	10.000		0.015
57-74-9	Chlordane	ND	0.030		0.071
8001-35-2	Toxaphene	ND	0.500		0.015

MDL = Method Detection Limit.

ND = Not Detected / Below MDL.

B = Present in the associated Blank.

E = Exceeded Calibration Range, Dilution to follow.

D = Dilution.

NLE = No Limit Established.

RL = Reporting Limit.

PQL = Practical Quantitation Limit.

Initial Vol.(ml) 100.0

Final Vol.(ml) 10.0

*Higher of PQL's and ground water criteria as per NJ C 7:9-6

*Results between MDL and RL are estimated.

Column-Primary: Rtx-CL Pesticides 30/32mm ID/.15um L

Column-Confirmation: Rtx-CL Pesticides 2.30m/32mm ID/.5um L

COMMENTS

GC EXTRACTABLES

TABULATED ANALYTICAL REPORT
POLYCHLORINATED BIPHENYLS
EPA METHOD 8082**MB05120801****MATRIX:** Aqueous**Date Extracted:** 5/12/2008**Ext. Batch:** 05120801**Date Analyzed:** 5/15/2008**Filename:** 05150811.D**Analyst:** JP

CAS #	COMPOUNDS	RESULTS (ug/L)	MDL (ug/L)
12674-11-2	Aroclor 1016	ND	0.620
11104-28-2	Aroclor 1221	ND	0.060
12672-29-6	Aroclor 1248	ND	0.890
53469-21-9	Aroclor 1242	ND	0.590
11141-16-5	Aroclor 1232	ND	0.785
11097-69-1	Aroclor 1254	ND	0.730
11096-82-5	Aroclor 1260	ND	0.420

MDL - Method Detection Limit

Initial Vol.(ml)

1000

ND = Not detected at or above MDL

Final Vol.(ml)

10

COMMENTS:

U.S.Army, FT. Monmouth Environmental Laboratory.

Report Of Analysis
NJDEP Certification # 13461
METHOD 8082

Client: U.S. Army, DPW, SELFM-PW-EV

Location: 9400 Porter Rd.

Project Name: Niagara Falls AFRC

Matrix: Aqueous

Field ID: Outfall #2

Ext. Batch: 05120801

Lab ID: 8014801

Date Extracted: 5/12/2008

Filename: 05150814.D

Date Analyzed: 5/15/2008

Lab Project No:

DILUTION: 1

Analyst: JP

CAS #	COMPOUNDS	RESULTS (ug/L)	*Reporting Limit (ug/L)	Cleanup Criteria (ug/L)	QUAL	FIELD	MDL (ug/L)
12674-11-2	AROCLOR 1016	ND	0.50	NA			0.620
11104-28-2	AROCLOR 1221	ND	0.50	NA			0.060
11141-16-5	AROCLOR 1232	ND	0.50	NA			0.890
53469-21-9	AROCLOR 1242	ND	0.50	NA			0.590
12672-29-6	AROCLOR 1248	ND	0.50	NA			0.785
11097-69-1	AROCLOR 1254	2.81	0.50	NA			0.730
11096-82-5	AROCLOR 1260	ND	0.50	NA			0.420

*RESULTS BETWEEN MDL AND RL ARE ESTIMATED.

MDL = METHOD DETECTION LIMIT

ND = UNDETECTED BELOW THE MDL

B = PRESENT IN THE ASSOCIATED BLANK

E = EXCEEDED CALIBRATION RANGE, DILUTION TO FOLLOW

D = DILUTION

%SOLIDS 100%

Initial Vol.(ml) 100.00

Final Vol.(ml) 10.00

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 80148
Sample Received: N/A
Sample Matrix: Aqueous
Sample Prepared: 05/13/08

Site: US Army 77th
Niagara Falls

Field ID#: Method Blank

Method of Analysis: Std. Methods 18th, Method 3120B, 3112B
Method of Extraction: E.P.A SW-846, Method 1311

TCLP-METALS RESULTS SUMMARY (mg/L)

Element	Results	Regulatory Level (mg/L)	R.L. (mg/L)
Arsenic	ND	5.0	0.005
Barium	0.016	100	0.005
Cadmium	ND	1.0	0.002
Chromium	ND	5.0	0.005
Lead	ND	5.0	0.005
Selenium	ND	1.0	0.010
Silver	ND	5.0	0.005
Mercury	ND	0.2	0.0005

ND = Not Detected, RL = Reporting Limit, NLE= No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 8014801
Sample Received: 05/02/08
Sample Matrix: Aqueous
Sample Analyzed: 05/13/08

Site: US Army 77th
Niagara Falls

Field ID: Outfall #5

Method of Extraction: E.P.A SW-846, Method 1311
Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

TCLP-METALS RESULTS SUMMARY (mg/L)

Element	Results	Regulatory Level (mg/L)	R.L. (mg/L)
Arsenic	ND	5.0	0.050
Barium	0.132	100	0.050
Cadmium	ND	1.0	0.020
Chromium	0.252	5.0	0.050
Lead	ND	5.0	0.050
Selenium	ND	1.0	0.100
Silver	ND	5.0	0.050
Mercury	ND	0.20	0.005

ND = Not Detected, RL = Reporting Limit, NLE= No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELF-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 8014801
Sample Received: 05/02/08
Sample Matrix: Aqueous
Sample Analyzed: 05/22/08

Site: US Army 77th
Niagara Falls

Method of Analysis: EPA SW-846, Method 1010 - Pensky-Martens Closed Cup

TEST PARAMETER: IGNITABILITY

Laboratory ID#	Sample Location Identification	Flashpoint °F	Ignitability
8014801	Out Fall #5	>140	Not Ignitable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELF-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Laboratory ID #: 8014801
Sample Received: 05/02/03
Sample Matrix: Aqueous
Sample Analyzed: 05/02/08

Site: US Army 77th
Niagara Falls

Method of Analysis: EPA-600/4-79-020, Method 150.1
EPA SW-846, Method 9045C

TEST PARAMETER: pH

Laboratory ID#	Sample Location Identification	Results (s.u.)
8014801	Outfall #5	10.8



QC Laboratories

Analytical Report



Regarding:

DAN WRIGHT
CHENEGA TECHNOLOGY SERVICES CORPORATION
ENVIRONMENTAL OFFICE
BUILDING 173 - RIVERSIDE AVENUE
FORT MONMOUTH, NJ 07703

DAN WRIGHT
CHENEGA TECHNOLOGY SERVICES CORPORATION
ENVIRONMENTAL OFFICE
BUILDING 173 - RIVERSIDE AVENUE
FORT MONMOUTH, NJ 07703

Account No: W03612, CHENEGA TECHNOLOGY FORT MONMOUTH
Project No: W03612, CHENEGA TECHNOLOGY FORT MONMOUTH

P.O. No:
PMSID No:

Inv. No: 969637

Sample Number L2636933-1
Sample Description US ARMY 77TH 8014801 OUTFALL #5
Received Temp: 40 F Iced (Y/N): Y

Samp. Date/Time/Temp
05/01/08 11:05am NA F

Sampled by
Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analyst
PYRIDINE-TCLP	SW846 8270C	ND mg/l	0.00540 mg/l	05/16/08 04:31PM J-M
1,4-DICHLOROBENZENE-TCLP	SW846 8270C	ND mg/l	0.00350 mg/l	05/16/08 04:31PM J-M
2-METHYLPHENOL-TCLP	SW846 8270C	ND mg/l	0.00470 mg/l	05/16/08 04:31PM J-M
HEXACHLOROETHANE-TCLP	SW846 8270C	ND mg/l	0.00370 mg/l	05/16/08 04:31PM J-M
3,4-METHYLPHENOL-TCLP	SW846 8270C	ND mg/l	0.00940 mg/l	05/16/08 04:31PM J-M
NITROBENZENE-TCLP	SW846 8270C	ND mg/l	0.00400 mg/l	05/16/08 04:31PM J-M
HEXACHLOROBUTADIENE-TCLP	SW846 8270C	ND mg/l	0.00410 mg/l	05/16/08 04:31PM J-M
2,4,6-TRICHLOROPHENOL-TCLP	SW846 8270C	ND mg/l	0.00420 mg/l	05/16/08 04:31PM J-M
2,4,5-TRICHLOROPHENOL-TCLP	SW846 8270C	ND mg/l	0.00450 mg/l	05/16/08 04:31PM J-M
2,4-DINITROTOLUENE-TCLP	SW846 8270C	ND mg/l	0.00400 mg/l	05/16/08 04:31PM J-M
HEXACHLOROBENZENE-TCLP	SW846 8270C	ND mg/l	0.00450 mg/l	05/16/08 04:31PM J-M
PENTACHLOROPHENOL-TCLP	SW846 8270C	ND mg/l	0.00420 mg/l	05/16/08 04:31PM J-M
TOTAL CRESOL-TCLP	SW846 8270C	ND mg/l	0.00940 mg/l	05/16/08 04:31PM J-M

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
- Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC=too numerous to count
- A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
- All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
- The test "pH lab" is analyzed upon receipt at the laboratory, the result will not be suitable for regulatory purposes.
- Actual times of analysis for parameters reported <24 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted.
- QC NELAP ID's: PA 09-00131, NJ PA166, FL E87954, NY 11223, CT PH-0768, DE PA-018, KY 90228, MD 206, EPA PA 0018, Bioassay: PA 09-03574, NJ PA034, FL E87953, KS E10373, SC 89020001.
- QC STATE ID's: Wind Gap, NJ PA001, PA 48-01334; E RUTHERFORD NJ02015; Vineyard NJ06005; Reading PA 06-4 3543.
- All samples are collected as "grab" samples unless otherwise identified.
- MCL= is the EPA recommended "maximum contaminant level" for a parameter. PLs=customer specific permit limits.
Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.

Thomas J. Hines
Thomas J. Hines, President

QC Laboratories

Analytical Report



Account No: W03612, CHENEGA TECHNOLOGY FORT MONMOUTH
Project No: W03612, CHENEGA TECHNOLOGY FORT MONMOUTH

P.O. No:
PHSID No:

Inv. No: 969637

L2636933-1:

1. For the 8270 TCLP fraction, the sample was extracted one day out of holding time.

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
- Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC=too numerous to count
- A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
- All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
- The test pH lab is analyzed upon receipt at the laboratory, the result will not be suitable for regulatory purposes.
- Actual times of analysis for parameters reported <24 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted.
- QC NELAP ID's: PA 09-00131, NJ PA166, FL E87954, NY 11223, CT PH-0768, DE PA-018, KY 90228, MD 206, EPA PAC 0018, Bioassay: PA 09-03574, NJ PA034, FL E87953, K; E10373, SC 89020001.
- QC STATE ID's: Wind Gap, NJ PA001, PA 48-01334; E RUTHERFORD NJ02015; Vineland NJ06005; Reading PA 06-C 3543.
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- MCL= is the EPA recommended "maximum contaminant level" for a parameter. PLs=customer specific permit limits.
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Thomas J. Hines
Thomas J. Hines, President

