

COVER LETTER

Tuesday, October 26, 2010

Rick Salness
NMED DOE Oversight SF
2905 Rodeo Park Drive East Building 1
Santa Fe, NM 87505

TEL: (505) 476-6050

FAX

RE: WQSP-4 Split

Dear Rick Salness:

Order No.: 1010417

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 10/8/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901

AZ license # AZ0682

ORELAP Lab # NM100001

Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 26-Oct-10

CLIENT: NMED DOE Oversight SF
Lab Order: 1010417
Project: WQSP-4 Split
Lab ID: 1010417-01

Client Sample ID: WQSP4-SVOC
Collection Date: 10/7/2010 9:48:00 AM
Date Received: 10/8/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthylene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Aniline	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Anthracene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Azobenzene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Benz(a)anthracene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Benzo(a)pyrene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Benzoic acid	ND	20		µg/L	1	10/20/2010 2:43:22 PM
Benzyl alcohol	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/20/2010 2:43:22 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Butyl benzyl phthalate	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Carbazole	ND	10		µg/L	1	10/20/2010 2:43:22 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/20/2010 2:43:22 PM
4-Chloroaniline	ND	10		µg/L	1	10/20/2010 2:43:22 PM
2-Chloronaphthalene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
2-Chlorophenol	ND	10		µg/L	1	10/20/2010 2:43:22 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Chrysene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Di-n-butyl phthalate	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Di-n-octyl phthalate	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Dibenzofuran	ND	10		µg/L	1	10/20/2010 2:43:22 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Diethyl phthalate	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Dimethyl phthalate	ND	10		µg/L	1	10/20/2010 2:43:22 PM
2,4-Dichlorophenol	ND	20		µg/L	1	10/20/2010 2:43:22 PM
2,4-Dimethylphenol	ND	10		µg/L	1	10/20/2010 2:43:22 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/20/2010 2:43:22 PM
2,4-Dinitrophenol	ND	20		µg/L	1	10/20/2010 2:43:22 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Fluoranthene	ND	10		µg/L	1	10/20/2010 2:43:22 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 26-Oct-10

CLIENT: NMED DOE Oversight SF
Lab Order: 1010417
Project: WQSP-4 Split
Lab ID: 1010417-01

Client Sample ID: WQSP4-SVOC
Collection Date: 10/7/2010 9:48:00 AM
Date Received: 10/8/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Fluorene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Hexachlorobenzene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Hexachlorobutadiene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Hexachloroethane	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Isophorone	ND	10		µg/L	1	10/20/2010 2:43:22 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
2-Methylphenol	ND	10		µg/L	1	10/20/2010 2:43:22 PM
3+4-Methylphenol	ND	10		µg/L	1	10/20/2010 2:43:22 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/20/2010 2:43:22 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/20/2010 2:43:22 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Naphthalene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
2-Nitroaniline	ND	10		µg/L	1	10/20/2010 2:43:22 PM
3-Nitroaniline	ND	10		µg/L	1	10/20/2010 2:43:22 PM
4-Nitroaniline	ND	20		µg/L	1	10/20/2010 2:43:22 PM
Nitrobenzene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
2-Nitrophenol	ND	10		µg/L	1	10/20/2010 2:43:22 PM
4-Nitrophenol	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Pentachlorophenol	ND	20		µg/L	1	10/20/2010 2:43:22 PM
Phenanthrene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Phenol	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Pyrene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Pyridine	ND	10		µg/L	1	10/20/2010 2:43:22 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/20/2010 2:43:22 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/20/2010 2:43:22 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/20/2010 2:43:22 PM
Surr: 2,4,6-Tribromophenol	72.6	16.6-150		%REC	1	10/20/2010 2:43:22 PM
Surr: 2-Fluorobiphenyl	75.5	19.6-134		%REC	1	10/20/2010 2:43:22 PM
Surr: 2-Fluorophenol	74.9	9.54-113		%REC	1	10/20/2010 2:43:22 PM
Surr: 4-Terphenyl-d14	70.1	22.7-145		%REC	1	10/20/2010 2:43:22 PM
Surr: Nitrobenzene-d5	76.1	14.6-134		%REC	1	10/20/2010 2:43:22 PM
Surr: Phenol-d5	67.1	10.7-80.3		%REC	1	10/20/2010 2:43:22 PM

Qualifiers:

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- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 26-Oct-10

CLIENT:	NMED DOE Oversight SF	Client Sample ID:	WQSP4-MR8
Lab Order:	1010417	Collection Date:	10/7/2010 10:05:00 AM
Project:	WQSP-4 Split	Date Received:	10/8/2010
Lab ID:	1010417-02	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7470: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	10/14/2010 1:26:18 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: RAGS
Arsenic	ND	0.40		mg/L	20	10/19/2010 3:01:56 PM
Cadmium	ND	0.040		mg/L	20	10/19/2010 3:01:56 PM
Chromium	ND	0.12		mg/L	20	10/19/2010 3:01:56 PM
Lead	ND	0.10		mg/L	20	10/19/2010 3:01:56 PM
Selenium	ND	1.0		mg/L	20	10/19/2010 3:01:56 PM
Silver	ND	0.10		mg/L	20	10/19/2010 3:01:56 PM

Qualifiers:

- | | |
|--|--|
| * Value exceeds Maximum Contaminant Level | B Analyte detected in the associated Method Blank |
| E Estimated value | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | MCL Maximum Contaminant Level |
| NC Non-Chlorinated | ND Not Detected at the Reporting Limit |
| PQL Practical Quantitation Limit | S Spike recovery outside accepted recovery limits |

Hall Environmental Analysis Laboratory, Inc.

Date: 26-Oct-10

CLIENT: NMED DOE Oversight SF
Lab Order: 1010417
Project: WQSP-4 Split
Lab ID: 1010417-03

Client Sample ID: WQSP4-VOAR31
Collection Date: 10/7/2010 10:20:00 AM
Date Received: 10/8/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
Toluene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
Ethylbenzene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
Naphthalene	ND	2.0		µg/L	1	10/12/2010 4:48:46 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/12/2010 4:48:46 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/12/2010 4:48:46 PM
Bromobenzene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
Bromoform	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
Bromomethane	ND	3.0		µg/L	1	10/12/2010 4:48:46 PM
Carbon disulfide	ND	10		µg/L	1	10/12/2010 4:48:46 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
Chlorobenzene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
Chloroethane	ND	2.0		µg/L	1	10/12/2010 4:48:46 PM
Chloroform	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/12/2010 4:48:46 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
Dibromomethane	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/12/2010 4:48:46 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
2-Hexanone	ND	10		µg/L	1	10/12/2010 4:48:46 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 26-Oct-10

CLIENT: NMED DOE Oversight SF
 Lab Order: 1010417
 Project: WQSP-4 Split
 Lab ID: 1010417-03

Client Sample ID: WQSP4-VOAR31
 Collection Date: 10/7/2010 10:20:00 AM
 Date Received: 10/8/2010
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
4-Methyl-2-pentanone	ND	10		µg/L	1	10/12/2010 4:48:46 PM
Methylene Chloride	ND	3.0		µg/L	1	10/12/2010 4:48:46 PM
n-Butylbenzene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
Styrene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/12/2010 4:48:46 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/12/2010 4:48:46 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/12/2010 4:48:46 PM
Xylenes, Total	ND	1.5		µg/L	1	10/12/2010 4:48:46 PM
Surr: 1,2-Dichloroethane-d4	83.9	54.6-141		%REC	1	10/12/2010 4:48:46 PM
Surr: 4-Bromofluorobenzene	112	60.1-133		%REC	1	10/12/2010 4:48:46 PM
Surr: Dibromofluoromethane	104	78.5-130		%REC	1	10/12/2010 4:48:46 PM
Surr: Toluene-d8	99.0	79.5-126		%REC	1	10/12/2010 4:48:46 PM

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- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 26-Oct-10

CLIENT: NMED DOE Oversight SF
 Lab Order: 1010417
 Project: WQSP-4 Split
 Lab ID: 1010417-04

Client Sample ID: Trip Blank
 Collection Date:
 Date Received: 10/8/2010
 Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
Toluene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
Ethylbenzene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
Naphthalene	ND	2.0		µg/L	1	10/12/2010 5:17:00 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/12/2010 5:17:00 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/12/2010 5:17:00 PM
Bromobenzene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
Bromoform	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
Bromomethane	ND	3.0		µg/L	1	10/12/2010 5:17:00 PM
Carbon disulfide	ND	10		µg/L	1	10/12/2010 5:17:00 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
Chlorobenzene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
Chloroethane	ND	2.0		µg/L	1	10/12/2010 5:17:00 PM
Chloroform	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/12/2010 5:17:00 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
Dibromomethane	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/12/2010 5:17:00 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
2-Hexanone	ND	10		µg/L	1	10/12/2010 5:17:00 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 26-Oct-10

CLIENT: NMED DOE Oversight SF
Lab Order: 1010417
Project: WQSP-4 Split
Lab ID: 1010417-04

Client Sample ID: Trip Blank
Collection Date:
Date Received: 10/8/2010
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
4-Methyl-2-pentanone	ND	10		µg/L	1	10/12/2010 5:17:00 PM
Methylene Chloride	ND	3.0		µg/L	1	10/12/2010 5:17:00 PM
n-Butylbenzene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
Styrene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/12/2010 5:17:00 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/12/2010 5:17:00 PM
Vinyl chloride	ND	1.0		µg/L	1	10/12/2010 5:17:00 PM
Xylenes, Total	ND	1.5		µg/L	1	10/12/2010 5:17:00 PM
Surr: 1,2-Dichloroethane-d4	87.5	54.6-141		%REC	1	10/12/2010 5:17:00 PM
Surr: 4-Bromofluorobenzene	102	60.1-133		%REC	1	10/12/2010 5:17:00 PM
Surr: Dibromofluoromethane	104	78.5-130		%REC	1	10/12/2010 5:17:00 PM
Surr: Toluene-d8	99.3	79.5-126		%REC	1	10/12/2010 5:17:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: NMED DOE Oversight SF

Project: WQSP-4 Split

Work Order: 1010417

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 5ml rb

MBLK

Batch ID: R41502 Analysis Date: 10/12/2010 12:21:40 PM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	ND	µg/L	1.0
Naphthalene	ND	µg/L	2.0
1-Methylnaphthalene	ND	µg/L	4.0
2-Methylnaphthalene	ND	µg/L	4.0
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	3.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0
Chloromethane	ND	µg/L	3.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0
2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: NMED DOE Oversight SF
 Project: WQSP-4 Split

Work Order: 1010417

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 5ml rb MBLK Batch ID: R41502 Analysis Date: 10/12/2010 12:21:40 PM

4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0
Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: 100ng lcs LCS Batch ID: R41502 Analysis Date: 10/12/2010 1:35:11 PM

Benzene	20.22	µg/L	1.0	20	0	101	82.4	116
Toluene	20.79	µg/L	1.0	20	0	104	89.5	123
Chlorobenzene	20.81	µg/L	1.0	20	0	104	87.8	120
1,1-Dichloroethene	19.94	µg/L	1.0	20	0	99.7	90.3	138
Trichloroethene (TCE)	17.95	µg/L	1.0	20	0	89.8	64	129

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- NC Non-Chlorinated
- R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: NMED DOE Oversight SF

Project: WQSP-4 Split

Work Order: 1010417

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8270C: Semivolatiles

Sample ID: mb-24122

MBLK

Batch ID: 24122 Analysis Date: 10/20/2010 9:11:58 AM

Acenaphthene	ND	µg/L	10
Acenaphthylene	ND	µg/L	10
Aniline	ND	µg/L	10
Anthracene	ND	µg/L	10
Azobenzene	ND	µg/L	10
Benz(a)anthracene	ND	µg/L	10
Benzo(a)pyrene	ND	µg/L	10
Benzo(b)fluoranthene	ND	µg/L	10
Benzo(g,h,i)perylene	ND	µg/L	10
Benzo(k)fluoranthene	ND	µg/L	10
Benzoic acid	ND	µg/L	20
Benzyl alcohol	ND	µg/L	10
Bis(2-chloroethoxy)methane	ND	µg/L	10
Bis(2-chloroethyl)ether	ND	µg/L	10
Bis(2-chloroisopropyl)ether	ND	µg/L	10
Bis(2-ethylhexyl)phthalate	ND	µg/L	10
4-Bromophenyl phenyl ether	ND	µg/L	10
Butyl benzyl phthalate	ND	µg/L	10
Carbazole	ND	µg/L	10
4-Chloro-3-methylphenol	ND	µg/L	10
4-Chloroaniline	ND	µg/L	10
2-Chloronaphthalene	ND	µg/L	10
2-Chlorophenol	ND	µg/L	10
4-Chlorophenyl phenyl ether	ND	µg/L	10
Chrysene	ND	µg/L	10
Di-n-butyl phthalate	ND	µg/L	10
Di-n-octyl phthalate	ND	µg/L	10
Dibenz(a,h)anthracene	ND	µg/L	10
Dibenzofuran	ND	µg/L	10
1,2-Dichlorobenzene	ND	µg/L	5.0
1,3-Dichlorobenzene	ND	µg/L	10
1,4-Dichlorobenzene	ND	µg/L	5.0
3,3'-Dichlorobenzidine	ND	µg/L	10
Diethyl phthalate	ND	µg/L	10
Dimethyl phthalate	ND	µg/L	10
2,4-Dichlorophenol	ND	µg/L	20
2,4-Dimethylphenol	ND	µg/L	10
4,6-Dinitro-2-methylphenol	ND	µg/L	20
2,4-Dinitrophenol	ND	µg/L	5.0
2,4-Dinitrotoluene	ND	µg/L	5.0
2,6-Dinitrotoluene	ND	µg/L	10
Fluoranthene	ND	µg/L	10
Fluorene	ND	µg/L	10
Hexachlorobenzene	ND	µg/L	5.0

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: NMED DOE Oversight SF
Project: WQSP-4 Split

Work Order: 1010417

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8270C: Semivolatiles

Sample ID: mb-24122

MBLK

Batch ID: 24122 Analysis Date: 10/20/2010 9:11:58 AM

Hexachlorobutadiene	ND	µg/L	10
Hexachlorocyclopentadiene	ND	µg/L	10
Hexachloroethane	ND	µg/L	5.0
Indeno(1,2,3-cd)pyrene	ND	µg/L	10
Isophorone	ND	µg/L	10
2-Methylnaphthalene	ND	µg/L	10
2-Methylphenol	ND	µg/L	5.0
3+4-Methylphenol	ND	µg/L	5.0
N-Nitrosodi-n-propylamine	ND	µg/L	10
N-Nitrosodimethylamine	ND	µg/L	10
N-Nitrosodiphenylamine	ND	µg/L	10
Naphthalene	ND	µg/L	10
2-Nitroaniline	ND	µg/L	10
3-Nitroaniline	ND	µg/L	10
4-Nitroaniline	ND	µg/L	20
Nitrobenzene	ND	µg/L	5.0
2-Nitrophenol	ND	µg/L	10
4-Nitrophenol	ND	µg/L	10
Pentachlorophenol	ND	µg/L	5.0
Phenanthrene	ND	µg/L	10
Phenol	ND	µg/L	10
Pyrene	ND	µg/L	10
Pyridine	ND	µg/L	5.0
1,2,4-Trichlorobenzene	ND	µg/L	10
2,4,5-Trichlorophenol	ND	µg/L	10
2,4,6-Trichlorophenol	ND	µg/L	10

Sample ID: ics-24122

LCS

Batch ID: 24122 Analysis Date: 10/20/2010 9:41:37 AM

Acenaphthene	72.30	µg/L	10	100	0	72.3	29.3	113
4-Chloro-3-methylphenol	75.06	µg/L	10	100	0	75.1	23.3	123
2-Chlorophenol	67.10	µg/L	10	100	0	67.1	23.9	112
1,4-Dichlorobenzene	49.68	µg/L	10	100	0	49.7	16.5	106
2,4-Dinitrotoluene	84.10	µg/L	10	100	0	84.1	27.7	126
N-Nitrosodi-n-propylamine	68.44	µg/L	10	100	0	68.4	25.9	113
4-Nitrophenol	46.64	µg/L	10	100	0	46.6	13.2	76.7
Pentachlorophenol	68.34	µg/L	20	100	0	68.3	22.4	121
Phenol	41.00	µg/L	10	100	0	41.0	15.3	68.3
Pyrene	72.84	µg/L	10	100	0	72.8	23.5	119
1,2,4-Trichlorobenzene	58.24	µg/L	10	100	0	58.2	23	107

Sample ID: icsd-24122

LCSD

Batch ID: 24122 Analysis Date: 10/20/2010 10:11:13 AM

Acenaphthene	74.08	µg/L	10	100	0	74.1	29.3	113	2.43	30.5
4-Chloro-3-methylphenol	74.72	µg/L	10	100	0	74.7	23.3	123	0.454	28.6
2-Chlorophenol	66.66	µg/L	10	100	0	66.7	23.9	112	0.658	107
1,4-Dichlorobenzene	51.22	µg/L	10	100	0	51.2	16.5	106	3.05	62.1
2,4-Dinitrotoluene	85.28	µg/L	10	100	0	85.3	27.7	126	1.39	14.7

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: NMED DOE Oversight SF
Project: WQSP-4 Split

Work Order: 1010417

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: lcsd-24122		LCS			Batch ID: 24122		Analysis Date: 10/20/2010 10:11:13 AM				
N-Nitrosodi-n-propylamine	67.46	µg/L	10	100	0	67.5	25.9	113	1.44	30.3	
4-Nitrophenol	46.68	µg/L	10	100	0	46.7	13.2	76.7	0.0857	36.3	
Pentachlorophenol	65.38	µg/L	20	100	0	65.4	22.4	121	4.43	49	
Phenol	42.02	µg/L	10	100	0	42.0	15.3	68.3	2.46	52.4	
Pyrene	72.40	µg/L	10	100	0	72.4	23.5	119	0.606	16.3	
1,2,4-Trichlorobenzene	58.80	µg/L	10	100	0	58.8	23	107	0.957	36.4	

Method: EPA Method 7470: Mercury											
Sample ID: MB-24114		MBLK			Batch ID: 24114		Analysis Date: 10/14/2010 12:52:15 PM				
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-24114		LCS			Batch ID: 24114		Analysis Date: 10/14/2010 12:53:59 PM				
Mercury	0.004994	mg/L	0.00020	0.005	1E-05	99.6	80	120			
Sample ID: LCS-24114		LCS			Batch ID: 24114		Analysis Date: 10/14/2010 12:55:45 PM				
Mercury	0.005003	mg/L	0.00020	0.005	1E-05	99.8	80	120	0.182	0	

Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-24117		MBLK			Batch ID: 24117		Analysis Date: 10/17/2010 4:34:57 PM				
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sample ID: LCS-24117		LCS			Batch ID: 24117		Analysis Date: 10/17/2010 4:37:55 PM				
Arsenic	0.5594	mg/L	0.020	0.5	0.0081	110	80	120			
Barium	0.5073	mg/L	0.020	0.5	0	101	80	120			
Cadmium	0.5283	mg/L	0.0020	0.5	0	106	80	120			
Chromium	0.5103	mg/L	0.0060	0.5	0	102	80	120			
Lead	0.5191	mg/L	0.0050	0.5	0	104	80	120			
Selenium	0.5726	mg/L	0.050	0.5	0	115	80	120			
Silver	0.5279	mg/L	0.0050	0.5	0.0008	105	80	120			
Sample ID: LCS-24117		LCS			Batch ID: 24117		Analysis Date: 10/17/2010 4:41:05 PM				
Arsenic	0.5495	mg/L	0.020	0.5	0.0081	108	80	120			
Barium	0.5096	mg/L	0.020	0.5	0	102	80	120			
Cadmium	0.5250	mg/L	0.0020	0.5	0	105	80	120			
Chromium	0.5137	mg/L	0.0060	0.5	0	103	80	120			
Lead	0.5150	mg/L	0.0050	0.5	0	103	80	120			
Selenium	0.5732	mg/L	0.050	0.5	0	115	80	120			
Silver	0.5296	mg/L	0.0050	0.5	0.0008	106	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name NMED DOE SF

Date Received:

10/8/2010

Work Order Number 1010417

Received by: MLW

Sample ID labels checked by:

dam
Initials

Checklist completed by:

Signature Michelle Gray

Date 10/8/10

Matrix:

Carrier name: Client drop-off

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Preservation labels on bottle and cap match? Yes No N/A
- Water - pH acceptable upon receipt? Yes No N/A
- Container/Temp Blank temperature? 4.7° <6° C Acceptable
If given sufficient time to cool.

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____