APPENDIX A: LETTERS OF CORRESPONDENCE (INCLUDING E-MAIL)

APPENDIX A-1. LETTER OF 3/23/2000, LTC DAVID ANDERSON TO W.M. SCHUH, RE: LOCATIONS, USES, AND COMPOSITION OF MUNITIONS AND EXPLOSIVES USED ON THE CGS FACILITY.

OFFICE OF THE ADJUTANT GENERAL
DIVISION OF
INSTALLATIONS, RESOURCES AND ENVIRONMENTAL
NORTH DAKOTA NATIONAL GUARD
PO BOX 5511, BISMARCK, ND 58506-5511

AGND-IRE-ENV 23 March 2000

MEMORANDUM FOR Mr. W. M. Schuh, ND State Water Commission, 900 East Boulevard Ave., Dept. 770, Bismarck, ND 58505-0850

SUBJECT: Information regarding pesticides, ammunition and petroleum products at Camp Grafton

1. Reference your memo dated 7 January 2000.

2. Attached you will find information regarding the types of pesticides, petroleum products, ammunition and explosives used by the NDARNG at the Camp Grafton Training Site. Also attached is a map of the training site indicating the range locations.

3. As we discussed on the phone, the use of the pesticides and the petroleum products is generally throughout the training site. The use of some of the munitions, such as blanks, smoke, and simulators would also be used throughout the site. The use of explosives and live ammunition is limited to the ranges marked on the attached map.

4. Please call me at 224-5244 should you have any questions.

David B. Anderson
DAVID B. ANDERSON
LTC, EN, NDARNG
Environmental Chief

Encl
as

Munitions:

Type	Principle Ingredients	Location
5.56mm (ball & blank) (ball = live ammunition with bullet, fired only on ranges) (blank = ammunition without bullet fired throughout camp)	NC Graphite Nitroglycerin Ethyl Centralite K Sulfate Primer: SB Sulfide BA Nitrate PB Styphnate Tetracene PETN AL powder	Ball –MRF range blank – throughout camp
7.62mm	Graphite NA Sulfate CA Carbonate Nitroglycerin Diphenylamine Dibutylphthalate NC	MPMG Range
50 cal	Graphite K Nitrate NA Sulfate CA Carbonate Nitroglycerin Diphenylamine Dibutylphthalate NC	MPMG Range
40mm (practice)	Silica Basonyl Red Isobenzofurandione Formaldehyde/melamin Tetrachlorozincate	M203 range

NOTE:
Key for Range acronyms –
MPMG = Multi Purpose Machine Gun range
MICLIC = Mine Clearing LIne Charge
CPQL = Combat Pistol Qualification range
MRF = Modified Record Fire range
AT4, MK19, M203 = nomenclature for weapons (anti tank, & grenade) which fire only practice (non high-explosive) rounds at the range
Demo range = Demolitions range – location where live explosives are used for training

Explosives:

Type	Principle Ingredients	Location
Bangalor Torpedo	Toluene Triethylamine Phosphorus Xylene Methyl Ethyl Ketone Lead Nickel Copper Antimony Zinc Compounds Chromium Compounds	Demo range
Primacord Detonating Cord	Pentaerythritol Tetranitrate (PETN) Cyclonite Cyclotetramethylene Tetranitramine (HMX) Cyclonite 2,6-BIS(Picrylamino)-3,5-Dinitropyridine (PYX)	Demo range
C4	Toluene	Demo range
TNT	2,4,6-trinitrotoluene	Demo range
Cratering Charge	Toluene Xylene Nickel Lead Cobalt Zinc Compounds Chromium Compounds	Demo range
Artillery simulator	Methyl Isobutyl Ketone Methanol K Nitrate S Charcoal	Throughout camp
Smoke grenade	Ethylbenzene Cadmium Manganese Chromium Methyl Isobutyl Ketone Methanol Chromium Compound Lead Barium	Throughout camp
Claymore Mine	Styrene Phosphorus Nickel Chromium Methanol Triethylamine Lead Antimony Zinc compounds Lead compounds	Demo Range
CS Grenade	O-Chlorobenzylidene Malononitrile Potassium Chlorate	Throughout camp

Pesticides:

Pesticide	Principle Ingredients	Application Method	Location
Tordon 22K	Picloram: 4-Amino-3,5,6-trichloropicolinic Acid Potassium salt Polyglycol 26-2	Ground application (Have not used Aerial application since 1997) (Generally applied once every year at selected locations)	Throughout South Camp
2,4 –D	Dimethylamine Salt of 2, 4 –Dichlorophenoxyacetic Acid	Ground (Have not used Aerial application since 1997) (Generally applied once every year at selected locations	Throughout South Camp
Pramitol 25E	2,4-bis(isopropylamino)-6-methoxy-s-triazine	Ground (Selected locations, once every year)	Throughout South Camp
Malathion 55	O,O-Dimethyl phosphorodithioate of diethyl mercapotosuccinate	Ground (Selected locations, bivouac and work sites, with repeated applications – approx 6 applications per site - depending on troop use)	Throughout South Camp

Petroleum products:

Type	Principle Ingredients	Location
Diesel Fuel	Naphthalene Complex mixture of Paraffinic Olefinic, Naphthenic and Aromatic Hydrocarbons	Throughout South Camp
Unleaded Gasoline	Gasoline Benzene	Throughout South Camp
Leaded Gasoline	Gasoline Benzene	Throughout South Camp
Motor Oil	Refined heavy Paraffinic Distillates (solvent refined paraffinic petroleum oil) PEL/TLV as Oil Mist	Throughout South Camp
Jet fuel JP-8	2-Methoxyethanol (EGME)	Throughout South Camp

APPENDIX A-2. E-MAIL COMMUNICTIONS OF 10/31/2001 AND 11/1/01, LOUISE PARKER, USACE, TO W.M. SCHUH, RE: ASSISTANCE IN INTERPRETING DETECTIONS OF MUNITIONS AND EXPLOSIVES RESIDUES IN 2001 SAMPLING

APPENDIX A-2a

From: "Parker, Louise V ERDC-CRREL-NH" <Louise.V.Parker@erdc.usace.army.mil>
To: bschuh@swc.state.nd.us
Subject: Munitions contaminants
Date: Wed, 31 Oct 2001 08:59:42 -0600
MIME-Version: 1.0

Hi Bill,

I thought I would share with you what I have so far. I have searched in two reference books and one DOD data base for the particular components of munitions. I have had trouble gaining access to the DOD database I use most frequently so, it may be a few days before I have the results of that query.

1) Concerning dibutyl phthalate:

According to an "Encyclopedia of Explosives and Related Items", it is used as a solvent for nitroaromatic compounds such as DNT and Dinitroethylbenzene. Is also used to coat nitrocellulose and nitroguanidine propellants. When I queried one of the DOD databases, I found 24 PAGES of munitions listed (with about 20 munitions per page)!

2) Concerning acetone:

When I queried the database, I found 60 munitions listed. These included flares, fuzes, hand grenades (smoke and riot types), anti-personnel mines, signals, and smoke pots.

3) Concerning toluene:

According to the "Encyclopedia of Explosives and Related Items", one of the major uses of toluene is explosives. Toluene is the precursor in the manufacture of DNT and TNT. According to "Hawley's Condensed Chemical Dictionary," it is also used as a diluent and thinner for nitrocellulose and explosives such as TNT.

When I queried the DOD database, I found 78 munitions listed including, fuzes, Fuze bombs, several sizes of projectiles (5". 16", 155 mm), and 2.75" rockets.

4) Concerning carbon disulfide,

I haven't had much luck here so I will have to keep looking. I found it listed in the "Encyclopedia of Explosives and Related Items" but it didn't say what it was used for other than it had been tested as a developmental component for munitions. This reference also claimed that it was quite toxic.

I also found it in the DOD database but the database did not list any munitions that it was a component of (0 matches). Since none of these DOD databases are complete yet, I will try the other one when I can get back into it.

Let me know which chemicals were you interested in maximum contaminant levels and anything else you still have questions on. I will let you know what I find on carbon disulfide when I get access to the other database.

Sincerely,

Louise Parker

APPENDIX A-2b

From: "Parker, Louise V ERDC-CRREL-NH" <Louise.V.Parker@erdc.usace.army.mil>
To: bschuh@swc.state.nd.us
Subject: Follow up- Munitions contaminants
Date: Thu, 1 Nov 2001 08:36:36 -0600
MIME-Version: 1.0

Hi Bill,

Here is what else I have found since I e-mailed you yesterday.

1) Concerning carbon disulfide,

I was able to get into the other DOD database yesterday. It had been a while since I used it and I had forgotten that it is great if you want to know the composition of a particular munition but it does not offer the capability of searching the entire database for component chemicals. After striking out there, I tried another book on explosives analysis and did not find it. So, I asked our most knowledgeable explosives chemist, Dr. Thomas Jenkins, if he had run into it. He said he had not but and he thought he would remember because it is a nasty solvent. I could probably give you some other names outside of CRREL if you still want to pursue this.

2) Concerning methylene chloride,

I forgot to mention in my last e-mail that I found some affiliation with munitions for this chemical also. When I searched the first DOD database, I found 15 matches for it. Munitions that contained it included several signals and smoke grenade launchers and a personnel signal kit.

I hope this has been helpful. Let me know what else I can do to help you.

Sincerely,

Louise Parker

APPENDIX A-3. E-MAIL COMMUNICTION OF 6/24/2002 AND BOB BENSON, USEPA, TO W.M. SCHUH, RE: ESTIMATING A TOXICOLOGICAL STANDARD FOR CARBON DISULFIDE

APPENDIX A-3

Date: Mon, 24 Jun 2002 12:42:31 -0600
From: Benson.Bob@epamail.epa.gov
Subject: Re: Citation
To: William Schuh <bschuh@water.swc.state.nd.us>
MIME-version: 1.0
X-MIMETrack: Serialize by Router on EPAHUB11/USEPA/US(Release 5.0.9a |January 7, 2002) at 06/24/2002 02:42:33 PM

Revise the third sentence to read:
However, Dr. Robert Benson of the USEPA in Denver, has provided an approximation of 700 ug/L as a threshold of toxicological concern, using standard computation procedures for a 70 kg adult consuming 2 liters of water per day, a relative source contribution of 0.2, and an oral reference dose of 0.1 mg/kg-day(Personal Communication, June 24, 2002)

Here is the exact calculation using the standard approach of the Drinking Water Program:
Lifetime Health Advisory = RfD x 70 kg x 1 day/2 L x Relative Source Contribution
LHA = 0.1 mg/kg-day x 70 kg x 1 day/2 L x 0.2 = 0.7 mg/L or 700 micrograms per liter.

The RfD or 0.1 mg/kg-day is on IRIS (http://www.epa.gov/IRIS the under substance name). The Relative Source Contribution is intended to deal with any additional source of carbon disulfile other than drinking water, such as air, food, and dermal contact.

William Schuh <bschuh@water.swc.state.nd.us> 06/24/02 12:30 PM	To:	Bob Benson/P2/R8/USEPA/US@EPA
	cc:	
	Subject:	Citation

APPENDIX A-4

Correspondance with DATACHEM LABORATORIES
concerning sample holding times for munitions and explosives residues in 2006)

-----Original Message-----
From: Bill Schuh [mailto:bschuh@state.nd.us]
Sent: Wednesday, February 28, 2007 9:05 AM
To: Griffiths, Kevin W.
Subject: Re:Camp Grafton South Samples

Good Morning Kevin,
Regarding our conversation last Friday on the treatment and handling of water samples for Camp Grafton South and the matter of holding time:

As discussed friday we need a detailed description of the treatment of those samples from receiving to extraction in order to ascertain their value and properly evaluate the results. I need a factual discussion on such matters as temperature and details of storage, and your professional opinion, or that of your chemists would also be helpful.

I need this quickly. I am presently preparing the report, and need to work with it in very short order to complete. I am very busy and cannot put this off.

An e-mail correspondence on the matter would be sufficient.

Please respond to this as soon as possible - hopefully by the end of this week.

Thank You

Bill Schuh

APPENDIX A-4 (Continued)

From: "Griffiths, Kevin W." <griffiths@datachem.com>
Date: Wed, 28 Feb 2007 15:47:57 -0700
To: Bill Schuh <bschuh@state.nd.us>
Conversation: Camp Grafton South Samples
Subject: RE: Camp Grafton South Samples

Mr. Schuh,

We have gone over the data from your September sampling. The samples were received on Friday September 15, the samples were taken (sampled) on September 11 (5 samples), September 12 (7 samples), and September 13 (1 sample). The holding time for the samples requiring Extraction is 7 days on a water to extraction and then 40 days after extraction to the analysis. The set of samples should have been extracted by Monday September 18. Because of some confusion with new log-in personal the samples did not get into our system until the afternoon of September 19. All the samples were extracted on September 20 thus all but one of the samples were over the holding time by 1 or 2 days. The samples being analyzed for Volatiles by method 8260 were all analyzed with-in their holding time. The effected methods were SVOC's by 8270, Explosives by 8330 and PETN/NG by 8332. All of the samples were stored in a cooler at 4C and never exceeded the temperature requirement. The results may be slightly biased low because of the extended time for the extraction, but in reality the results should not have changed much because of the 1 to 2 day excursion of the holding time. DataChem regrets the handling of the samples and the missed holding times. We pride our self in never exceeding the recommended holding times of client samples. Additional training has been done and checks have been put in place to assure that the holding times are not exceeded.

Please contact me if I can answer any other questions.

Kevin W. Griffiths
DataChem Laboratories, Inc
960 West LeVoy Drive
Salt Lake City, Utah 84123
(801) 904-4302
(801) 268-9992 (Fax)
griffiths@datachem.com
www.datachem.com

APPENDIX B: MUNITIONS AND EXPLOSIVES RESIDUES

Laboratory results, and case narratives (including description of method, analysis, matrix, general information, method summary, sample preparation, holding times, dilutions, quality control data, instrument ZC, NCC/NCAR, confirmation analyses, and field and laboratory chain of custody).

Includes:
- Appendix B-1, EPA Method 8260B
- Appendix B-2, EPA Method 8270C
- Appendix B-3, EPA Method 8330
- Appendix B-4, EPA Method 8332

Appendix B-1, EPA Method 8260B

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Case Narrative

Method: 8260B
Analysis: VOA
Preparation SOP #: NA
Analysis SOP#: OV-SW-8260B Rev # 7
Lot/Reference/SDG #: NA
DCL Set ID #(s): 06E-0590-01

Client: North Dakota State Water Commission
Account #: 8001
Matrix: Water

Analysis / Method : Method 8260B is an EPA SW846 method (DCL SOP OV-SW-8260B Revision 7 - herein referred to as the "method") used in the analysis of water samples for volatile organics by GC/MS purge and trap techniques.

General Set Information: DataChem Laboratories received nine water samples for VOA analysis. All samples were analyzed within fourteen days of collection. Recoveries of target analytes are reported on the sample analysis data sheet in units of µg/L.

Sample Preparation: This method has no extraction procedure for the water matrix. The sample preparation date is the same as the date of analysis. Five milliliters of water sample was spiked with 2.5 µL of internal standard/surrogate solution and purged.

Instrument Calibration: The GC/MS was hardware tuned to meet the criteria for a 50 ng purging of 4-bromofluorobenzene as specified in the method. This tune check is valid for 12 hours.

Initial and Continuing Calibration Verification: The five point minimum initial calibration curve which was analyzed prior to sample analysis met the specified criteria in the method. System performance check compounds (SPCC) are checked for a minimum response factor. These compounds are chloromethane (0.100), bromoform (0.100), 1,1-dichloroethane (0.100), chlorobenzene (0.300), and 1,1,2,2-tetrachloroethane (0.300). Response factors for the calibration check compounds (toluene, 1,1-dichloroethene, chloroform, 1,2-dichloropropane, ethylbenzene, and vinyl chloride) from the initial calibration curve are used to calculate percent relative standard deviations (%RSD). For the initial calibration standards, the %RSD for the calibration check compounds (CCC) must be less than 30% and the average %RSD for all spiked compounds must be less than 15%.

A calibration verification standard (CVS) which is used in the validation of the initial calibration was also analyzed prior to sample analysis. The CVS met the method criteria as specified. The response factors of the SPCC's met the minimum criteria as specified in the method. The CCC's were less than 20% difference from the target based on the initial calibration curve.

Method Blank Analysis: Two method blanks (BL-250874-1, -2) were prepared using reagent water spiked with 2.5 µL of internal standard/surrogate solution and analyzed prior to sample analysis. The blanks were free of volatile organic contaminants within the specifications of the method.

MS / MSD Analysis: Matrix spike and matrix spike duplicate analyses were performed for sample 06E04358 (13102). The MS compounds (consisting of all calibrated compounds of interest) were spiked at a concentration of 50 µg/L. Only the five compounds required by the method (1,1-dichloroethene, benzene, trichloroethene, toluene, and chlorobenzene) were evaluated for pass/fail criteria. These recoveries met established QC acceptance criteria.

Laboratory Control Sample Analysis: A laboratory control sample (QC-250874-1) was analyzed for this analytical batch. The CVS was generated using a separate source standard and was additionally utilized as the LCS. The LCS compounds (same as the MS/MSD) were spiked at a concentration of 50 µg/L. All required recoveries met established QC acceptance criteria.

Data Qualifier Codes: A "J" qualifier indicates that the result is greater than the MDL but less than the CRDL or that the value is an estimate based on a relative response factor of one. Analytes found in field samples which also appear in the method blanks are reported with a "B" qualifier in the flag column. An "E" denotes a value reported which exceeds the linear range of the curve.

NC/CAR: Not required.

Miscellaneous Comments: All surrogate recoveries were within established QC limits. Instrument designation is HP5971-L.

Sample Calculations :

Relative Response Factor: $$\mathbf{RRF} = \left[\frac{A_x}{A_{is}}\right]\left[\frac{C_{is}}{C_x}\right]$$

where $\mathbf{A_x}$ is the area of the characteristic ion for the compound to be measured, $\mathbf{A_{is}}$ is the area of the characteristic ion for the internal standard , $\mathbf{C_{is}}$ is the concentration of the internal standard, and $\mathbf{C_x}$ is the concentration of the compound to be measured.

Concentration in µg/L: $$\mathbf{C} = \left[\frac{(A_x)\,(I_s)\,(Df)}{(A_{is})\,(ARF)}\right]$$

where $\mathbf{I_s}$ is the amount of internal standard spiked in µg/L, **Df** is a dilution factor (1 if no dilutions are made), and **ARF** is the average response factor (assumed to be 1 for non target analytes).

9.26.06

Christopher Q. Coleman

DATA CHEM LABORATORIES
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COVER PAGE

SEP 27 2006

ANALYTICAL REPORT FOR
North Dakota State Water Commission

Phone(703) 328-2739 Fax(701) 328-3696

Form COVER-V1.4
09260616334902

G068L01Z

DCL Report Group . . : 06E-0590-01

Date Printed . . : 26-SEP-06 16:33

Project Protocol #: P0186001
Client Ref Number : CCS Sampling
Release Number . . : CCS Sampling

Analysis Method(s): 8260B

North Dakota State Water Commission
Attention: W.M. Schuh
900 East Boulevard
Bismarck, ND 58505

Client Sample Name	Laboratory Sample Name	Date Sampled	Date Received
Method Blank	BL-250874-1	NA	NA
Method Blank	BL-250874-2	NA	NA
LCS	QC-250874-1	NA	NA
13102	06E04358	11-SEP-06	15-SEP-06
13102	06E04358MS	11-SEP-06	15-SEP-06
13102	06E04358MSD	11-SEP-06	15-SEP-06
FIELD BLANK	06E04359	13-SEP-06	15-SEP-06
13086	06E04360	11-SEP-06	15-SEP-06
13101	06E04362	11-SEP-06	15-SEP-06
13097	06E04366	12-SEP-06	15-SEP-06
13098	06E04367	12-SEP-06	15-SEP-06
RESERVOIR|CAMP CROFTON	06E04368	12-SEP-06	15-SEP-06
SOUTH SPRING|CAMP CROFTOO	06E04369	12-SEP-06	15-SEP-06
SOUTH SPRING|FIELD DUP	06E04370	12-SEP-06	15-SEP-06

This report contains
16 pages

Analyst: Christopher Q. Coleman — 9.26.06 Date

Reviewer: Thomas J. Masoian — 9.26.06 Date

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
Phone (801) 266-7700 Web Page: www.datachem.com
FAX (801) 268-9992 E-mail: lab@datachem.com

01

SAMPLE GROUP COMMENTS

DCL Report Group . . : 06E-0590-01
Date Printed . . . . : 26-SEP-06 16:33

Client Name . . . : North Dakota State Water Commission

Release Number . . . : CCS Sampling

Sample Group Comments

QC and LCS data included in set 06E-0590-01.
Surrogate and matrix spike compounds are spiked at 50 ug/L
The QC and sample data for this set are within acceptable parameters.
The samples were analyzed by GC/MS according to method 8260 (OV-SW-8260B Rev 7)

General Information

The DCL QC Database maintains all numerical figures which are input from the pertinent data source These data have not been rounded to significant figures nor have they been moisture corrected. Reports generated from the system, however, list data which have been rounded to the number of significant figures requested by the client or deemed appropriate for the method. This may create minor discrepancies between data which appear on the QC Summary Forms (Forms B-G) and those that would be calculated from rounded analytical results Additionally, if a moisture correction is performed, differences will be observed between the QC data and the surrogate data reported on Form A (or other report forms) and corresponding data reported on QC Summary Forms. In these cases, the Form A will indicate the "Report Basis" as well as the moisture value used for making the correction

DataChem Laboratories, Inc. is accreditated by the State of Utah, Bureau of Laboratory Improvement under NELAP for specific fields of testing as documented in its current scope of accrediation (ID# DATA1) which is available by request or on the internet at http://hlunix.hl.state.ut us/els/labimp/labcertification/labsutahcert.mdb. The quality systems implemented in the laboratory apply to all methods performed by DataChem regardless of this current scope of accreditation which does not include performance based methods, modified methods and methods applied to matrices not listed in the methods.

Report generation options: X

Result Symbol Definitions

ND - Not Detected above the MDL (LLD or MDC for radiochemistry).
** - No result could be reported, see sample comments for details

Qualifier Symbol Definitions

U - Not Detected above the MDL (LLD or MDC for radiochemistry).
B - For organic analyses the qualifier indicates that this analyte was found in the method blank
For inorganic analyses the qualifier signifies the value is between the MDL and PQL.
J - For organic analyses the qualifier indicates that the value is between the MDL and the PQL
It is also used for indicating an estimated value for tentatively identified compounds
in mass spectrometry where a 1:1 response is assumed

QC Flag Symbol Definitions

* - Parameter outside of specified QC limits.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
09260616334902
Page 3

S068L08W

Date Printed : 26-SEP-06 16:33

Client Name : North Dakota State Water Commission
Client Ref Number : CCS Sampling
Sampling Site : 1856
Release Number : CCS Sampling

Date Received : 15-SEP-06 00:00

Client Sample Name: 13102
DCL Sample Name : 06E04358
DCL Report Group : 06E-0590-01

Matrix : WATER
Date Sampled : 11-SEP-06 00:00
Reporting Units : ug/L
Report Basis : [X] As Received [ ] Dried

DCL Preparation Group: Not Applicable
Date Prepared : Not Applicable
Preparation Method : 5030
Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume : Not Required

DCL Analysis Group: G068T01B
Analysis Method : 8260B
Instrument Type : GC/MS VO
Instrument ID : 5971-L
Column Type : DB 624
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
1,1,1-Trichloroethane	22-SEP-06 14:05	0.144	ND			1	1
1,1,2,2-Tetrachloroethane	22-SEP-06 14:05	0.215	ND			1	1
1,1,2-Trichloroethane	22-SEP-06 14:05	0.724	ND			1	1
1,1-Dichloroethane	22-SEP-06 14:05	0.181	ND			1	1
1,1-Dichloroethene	22-SEP-06 14:05	0.197	ND			1	1
1,2-Dichloroethane	22-SEP-06 14:05	0.131	ND			1	1
1,2-Dichloropropane	22-SEP-06 14:05	0.137	ND			1	1
2-Butanone	22-SEP-06 14:05	3.47	ND			1	5
2-Hexanone	22-SEP-06 14:05	0.719	ND			1	5
4-Methyl-2-Pentanone	22-SEP-06 14:05	0.537	ND			1	5
Acetone	22-SEP-06 14:05	3.43	ND			1	5
Benzene	22-SEP-06 14:05	0.205	ND			1	1
Bromodichloromethane	22-SEP-06 14:05	0.129	ND			1	1
Bromoform	22-SEP-06 14:05	0.201	ND			1	1
Bromomethane	22-SEP-06 14:05	0.179	ND			1	1
Carbon Disulfide	22-SEP-06 14:05	0.188	ND			1	1
Carbon Tetrachloride	22-SEP-06 14:05	0.134	ND			1	1
Chlorobenzene	22-SEP-06 14:05	0.132	ND			1	1
Chloroethane	22-SEP-06 14:05	0.332	ND			1	1
Chloroform	22-SEP-06 14:05	0.0999	ND			1	1
Chloromethane	22-SEP-06 14:05	0.195	ND			1	1
Dibromochloromethane	22-SEP-06 14:05	0.152	ND			1	1
Ethylbenzene	22-SEP-06 14:05	0.263	ND			1	1
Methylene Chloride	22-SEP-06 14:05	0.211	ND			1	1
Styrene	22-SEP-06 14:05	0.0906	ND			1	1
Tetrachloroethene	22-SEP-06 14:05	0.147	ND			1	1
Toluene	22-SEP-06 14:05	0.479	ND			1	1
Trichloroethene	22-SEP-06 14:05	0.163	ND			1	1
Vinyl Chloride	22-SEP-06 14:05	0.148	ND			1	1
cis-1,3-Dichloropropene	22-SEP-06 14:05	0.173	ND			1	1
trans-1,3-Dichloropropene	22-SEP-06 14:05	0.0911	ND			1	1
cis-1,2-Dichloroethene	22-SEP-06 14:05	0.118	ND			1	1
trans-1,2-Dichloroethene	22-SEP-06 14:05	0.148	ND			1	1
o-Xylene	22-SEP-06 14:05	0.112	ND			1	1
m,p-Xylene	22-SEP-06 14:05	0.199	ND			1	2

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
Phone (801) 266-7700 Web Page: www datachem.com
FAX (801) 268-9992 E-mail: lab@datachem.com

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L08Z

Date Printed : 26-SEP-06 16:33

Client Name : North Dakota State Water Commission
Client Ref Number : CCS Sampling
Sampling Site : 1856
Release Number : CCS Sampling

Date Received : 15-SEP-06 00:00

Client Sample Name: **FIELD BLANK**
DCL Sample Name : **06E04359**
DCL Report Group : **06E-0590-01**

Matrix : WATER
Date Sampled : 13-SEP-06 00:00
Reporting Units : ug/L
Report Basis : ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared : Not Applicable
Preparation Method : 5030
Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume : Not Required

DCL Analysis Group: G068T01B
Analysis Method : 8260B
Instrument Type : GC/MS VO
Instrument ID : 5971-L
Column Type : DB 624
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
1,1,1-Trichloroethane	22-SEP-06 14:34	0.144	ND			1	1
1,1,2,2-Tetrachloroethane	22-SEP-06 14:34	0.215	ND			1	1
1,1,2-Trichloroethane	22-SEP-06 14:34	0.724	ND			1	1
1,1-Dichloroethane	22-SEP-06 14:34	0.181	ND			1	1
1,1-Dichloroethene	22-SEP-06 14:34	0.197	ND			1	1
1,2-Dichloroethane	22-SEP-06 14:34	0.131	ND			1	1
1,2-Dichloropropane	22-SEP-06 14:34	0.137	ND			1	1
2-Butanone	22-SEP-06 14:34	3.47	ND			1	5
2-Hexanone	22-SEP-06 14:34	0.719	ND			1	5
4-Methyl-2-Pentanone	22-SEP-06 14:34	0.537	ND			1	5
Acetone	22-SEP-06 14:34	3.43	ND			1	5
Benzene	22-SEP-06 14:34	0.205	ND			1	1
Bromodichloromethane	22-SEP-06 14:34	0.129	ND			1	1
Bromoform	22-SEP-06 14:34	0.201	ND			1	1
Bromomethane	22-SEP-06 14:34	0.179	ND			1	1
Carbon Disulfide	22-SEP-06 14:34	0.188	ND			1	1
Carbon Tetrachloride	22-SEP-06 14:34	0.134	ND			1	1
Chlorobenzene	22-SEP-06 14:34	0.132	ND			1	1
Chloroethane	22-SEP-06 14:34	0.332	ND			1	1
Chloroform	22-SEP-06 14:34	0.0999	ND			1	1
Chloromethane	22-SEP-06 14:34	0.195	ND			1	1
Dibromochloromethane	22-SEP-06 14:34	0.152	ND			1	1
Ethylbenzene	22-SEP-06 14:34	0.263	ND			1	1
Methylene Chloride	22-SEP-06 14:34	0.211	ND			1	1
Styrene	22-SEP-06 14:34	0.0906	ND			1	1
Tetrachloroethene	22-SEP-06 14:34	0.147	ND			1	1
Toluene	22-SEP-06 14:34	0.479	ND			1	1
Trichloroethene	22-SEP-06 14:34	0.163	ND			1	1
Vinyl Chloride	22-SEP-06 14:34	0.148	ND			1	1
cis-1,3-Dichloropropene	22-SEP-06 14:34	0.173	ND			1	1
trans-1,3-Dichloropropene	22-SEP-06 14:34	0.0911	ND			1	1
cis-1,2-Dichloroethene	22-SEP-06 14:34	0.118	ND			1	1
trans-1,2-Dichloroethene	22-SEP-06 14:34	0.148	ND			1	1
o-Xylene	22-SEP-06 14:34	0.112	ND			1	1
m,p-Xylene	22-SEP-06 14:34	0.199	ND			1	2

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L090

Date Printed : 26-SEP-06 16:33

Client Name : North Dakota State Water Commission
Client Ref Number : CCS Sampling
Sampling Site : 1856
Release Number : CCS Sampling

Date Received : 15-SEP-06 00:00

Client Sample Name: **13086**
DCL Sample Name : **06E04360**
DCL Report Group : **06E-0590-01**

Matrix : WATER
Date Sampled : 11-SEP-06 00:00
Reporting Units : ug/L
Report Basis : [X] As Received [ ] Dried

DCL Preparation Group: Not Applicable
Date Prepared : Not Applicable
Preparation Method : 5030
Aliquot Weight/Volume: 5 0 mL
Net Weight/Volume : Not Required

DCL Analysis Group: G068T01B
Analysis Method : 8260B
Instrument Type : GC/MS VO
Instrument ID : 5971-L
Column Type : DB 624
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
1,1,1-Trichloroethane	22-SEP-06 15:03	0.144	ND			1	1
1,1,2,2-Tetrachloroethane	22-SEP-06 15:03	0.215	ND			1	1
1,1,2-Trichloroethane	22-SEP-06 15:03	0.724	ND			1	1
1,1-Dichloroethane	22-SEP-06 15:03	0.181	ND			1	1
1,1-Dichloroethene	22-SEP-06 15:03	0.197	ND			1	1
1,2-Dichloroethane	22-SEP-06 15:03	0.131	ND			1	1
1,2-Dichloropropane	22-SEP-06 15:03	0.137	ND			1	1
2-Butanone	22-SEP-06 15:03	3.47	ND			1	5
2-Hexanone	22-SEP-06 15:03	0.719	ND			1	5
4-Methyl-2-Pentanone	22-SEP-06 15:03	0.537	ND			1	5
Acetone	22-SEP-06 15:03	3.43	ND			1	5
Benzene	22-SEP-06 15:03	0.205	ND			1	1
Bromodichloromethane	22-SEP-06 15:03	0.129	ND			1	1
Bromoform	22-SEP-06 15:03	0.201	ND			1	1
Bromomethane	22-SEP-06 15:03	0.179	ND			1	1
Carbon Disulfide	22-SEP-06 15:03	0.188	ND			1	1
Carbon Tetrachloride	22-SEP-06 15:03	0.134	ND			1	1
Chlorobenzene	22-SEP-06 15:03	0.132	ND			1	1
Chloroethane	22-SEP-06 15:03	0.332	ND			1	1
Chloroform	22-SEP-06 15:03	0.0999	ND			1	1
Chloromethane	22-SEP-06 15:03	0.195	ND			1	1
Dibromochloromethane	22-SEP-06 15:03	0.152	ND			1	1
Ethylbenzene	22-SEP-06 15:03	0.263	ND			1	1
Methylene Chloride	22-SEP-06 15:03	0.211	ND			1	1
Styrene	22-SEP-06 15:03	0.0906	ND			1	1
Tetrachloroethene	22-SEP-06 15:03	0.147	ND			1	1
Toluene	22-SEP-06 15:03	0.479	ND			1	1
Trichloroethene	22-SEP-06 15:03	0.163	ND			1	1
Vinyl Chloride	22-SEP-06 15:03	0.148	ND			1	1
cis-1,3-Dichloropropene	22-SEP-06 15:03	0.173	ND			1	1
trans-1,3-Dichloropropene	22-SEP-06 15:03	0.0911	ND			1	1
cis-1,2-Dichloroethene	22-SEP-06 15:03	0.118	ND			1	1
trans-1,2-Dichloroethene	22-SEP-06 15:03	0.148	ND			1	1
o-Xylene	22-SEP-06 15:03	0.112	ND			1	1
m,p-Xylene	22-SEP-06 15:03	0.199	ND			1	2

DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
09260616334902

S068L091

Date Printed : 26-SEP-06 16:33

Client Name : North Dakota State Water Commission
Client Ref Number : CCS Sampling
Sampling Site : 1856
Release Number : CCS Sampling

Date Received : 15-SEP-06 00:00

Client Sample Name: **13101**
DCL Sample Name : **06E04362**
DCL Report Group : **06E-0590-01**

Matrix : WATER
Date Sampled : 11-SEP-06 00:00
Reporting Units : ug/L
Report Basis : [X] As Received [ ] Dried

DCL Preparation Group: Not Applicable
Date Prepared : Not Applicable
Preparation Method : 5030
Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume : Not Required

DCL Analysis Group: G068T01B
Analysis Method : 8260B
Instrument Type : GC/MS VO
Instrument ID : 5971-L
Column Type : DB 624
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
1,1,1-Trichloroethane	22-SEP-06 15:32	0.144	ND			1	1
1,1,2,2-Tetrachloroethane	22-SEP-06 15:32	0.215	ND			1	1
1,1,2-Trichloroethane	22-SEP-06 15:32	0.724	ND			1	1
1,1-Dichloroethane	22-SEP-06 15:32	0.181	ND			1	1
1,1-Dichloroethene	22-SEP-06 15:32	0.197	ND			1	1
1,2-Dichloroethane	22-SEP-06 15:32	0.131	ND			1	1
1,2-Dichloropropane	22-SEP-06 15:32	0.137	ND			1	1
2-Butanone	22-SEP-06 15:32	3.47	ND			1	5
2-Hexanone	22-SEP-06 15:32	0.719	ND			1	5
4-Methyl-2-Pentanone	22-SEP-06 15:32	0.537	ND			1	5
Acetone	22-SEP-06 15:32	3.43	ND			1	5
Benzene	22-SEP-06 15:32	0.205	ND			1	1
Bromodichloromethane	22-SEP-06 15:32	0.129	ND			1	1
Bromoform	22-SEP-06 15:32	0.201	ND			1	1
Bromomethane	22-SEP-06 15:32	0.179	ND			1	1
Carbon Disulfide	22-SEP-06 15:32	0.188	ND			1	1
Carbon Tetrachloride	22-SEP-06 15:32	0.134	ND			1	1
Chlorobenzene	22-SEP-06 15:32	0.132	ND			1	1
Chloroethane	22-SEP-06 15:32	0.332	ND			1	1
Chloroform	22-SEP-06 15:32	0.0999	ND			1	1
Chloromethane	22-SEP-06 15:32	0.195	ND			1	1
Dibromochloromethane	22-SEP-06 15:32	0.152	ND			1	1
Ethylbenzene	22-SEP-06 15:32	0.263	ND			1	1
Methylene Chloride	22-SEP-06 15:32	0.211	ND			1	1
Styrene	22-SEP-06 15:32	0.0906	ND			1	1
Tetrachloroethene	22-SEP-06 15:32	0.147	ND			1	1
Toluene	22-SEP-06 15:32	0.479	ND			1	1
Trichloroethene	22-SEP-06 15:32	0.163	ND			1	1
Vinyl Chloride	22-SEP-06 15:32	0.148	ND			1	1
cis-1,3-Dichloropropene	22-SEP-06 15:32	0.173	ND			1	1
trans-1,3-Dichloropropene	22-SEP-06 15:32	0.0911	ND			1	1
cis-1,2-Dichloroethene	22-SEP-06 15:32	0.118	ND			1	1
trans-1,2-Dichloroethene	22-SEP-06 15:32	0.148	ND			1	1
o-Xylene	22-SEP-06 15:32	0.112	ND			1	1
m,p-Xylene	22-SEP-06 15:32	0.199	ND			1	2

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L092

Date Printed : 26-SEP-06 16:33

Client Name : North Dakota State Water Commission
Client Ref Number : CCS Sampling
Sampling Site : 1856
Release Number : CCS Sampling

Date Received : 15-SEP-06 00:00

Client Sample Name: 13097
DCL Sample Name : 06E04366
DCL Report Group : 06E-0590-01

Matrix : WATER
Date Sampled : 12-SEP-06 00:00
Reporting Units : ug/L
Report Basis : [X] As Received [ ] Dried

DCL Preparation Group: Not Applicable
Date Prepared : Not Applicable
Preparation Method : 5030
Aliquot Weight/Volume: 5 0 mL
Net Weight/Volume : Not Required

DCL Analysis Group: G068T01B
Analysis Method : 8260B
Instrument Type : GC/MS VO
Instrument ID : 5971-L
Column Type : DB 624
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
1,1,1-Trichloroethane	22-SEP-06 16:01	0.144	ND			1	1
1,1,2,2-Tetrachloroethane	22-SEP-06 16:01	0.215	ND			1	1
1,1,2-Trichloroethane	22-SEP-06 16:01	0.724	ND			1	1
1,1-Dichloroethane	22-SEP-06 16:01	0.181	ND			1	1
1,1-Dichloroethene	22-SEP-06 16:01	0.197	ND			1	1
1,2-Dichloroethane	22-SEP-06 16:01	0.131	ND			1	1
1,2-Dichloropropane	22-SEP-06 16:01	0.137	ND			1	1
2-Butanone	22-SEP-06 16:01	3.47	ND			1	5
2-Hexanone	22-SEP-06 16:01	0.719	ND			1	5
4-Methyl-2-Pentanone	22-SEP-06 16:01	0.537	ND			1	5
Acetone	22-SEP-06 16:01	3.43	ND			1	5
Benzene	22-SEP-06 16:01	0.205	ND			1	1
Bromodichloromethane	22-SEP-06 16:01	0.129	ND			1	1
Bromoform	22-SEP-06 16:01	0.201	ND			1	1
Bromomethane	22-SEP-06 16:01	0.179	ND			1	1
Carbon Disulfide	22-SEP-06 16:01	0.188	ND			1	1
Carbon Tetrachloride	22-SEP-06 16:01	0.134	ND			1	1
Chlorobenzene	22-SEP-06 16:01	0.132	ND			1	1
Chloroethane	22-SEP-06 16:01	0.332	ND			1	1
Chloroform	22-SEP-06 16:01	0.0999	ND			1	1
Chloromethane	22-SEP-06 16:01	0.195	ND			1	1
Dibromochloromethane	22-SEP-06 16:01	0.152	ND			1	1
Ethylbenzene	22-SEP-06 16:01	0.263	ND			1	1
Methylene Chloride	22-SEP-06 16:01	0.211	ND			1	1
Styrene	22-SEP-06 16:01	0.0906	ND			1	1
Tetrachloroethene	22-SEP-06 16:01	0.147	ND			1	1
Toluene	22-SEP-06 16:01	0.479	ND			1	1
Trichloroethene	22-SEP-06 16:01	0.163	ND			1	1
Vinyl Chloride	22-SEP-06 16:01	0.148	ND			1	1
cis-1,3-Dichloropropene	22-SEP-06 16:01	0.173	ND			1	1
trans-1,3-Dichloropropene	22-SEP-06 16:01	0.0911	ND			1	1
cis-1,2-Dichloroethene	22-SEP-06 16:01	0.118	ND			1	1
trans-1,2-Dichloroethene	22-SEP-06 16:01	0.148	ND			1	1
o-Xylene	22-SEP-06 16:01	0.112	ND			1	1
m,p-Xylene	22-SEP-06 16:01	0.199	ND			1	2

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L093

Date Printed : 26-SEP-06 16:33

Client Name : North Dakota State Water Commission
Client Ref Number : CCS Sampling
Sampling Site : 1856
Release Number : CCS Sampling

Date Received : 15-SEP-06 00:00

Client Sample Name: 13098
DCL Sample Name : 06E04367
DCL Report Group : 06E-0590-01

Matrix : WATER
Date Sampled : 12-SEP-06 00:00
Reporting Units : ug/L
Report Basis : [X] As Received [ ] Dried

DCL Preparation Group: Not Applicable
Date Prepared : Not Applicable
Preparation Method : 5030
Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume : Not Required

DCL Analysis Group: G068T01B
Analysis Method : 8260B
Instrument Type : GC/MS VO
Instrument ID : 5971-L
Column Type : DB 624
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
1,1,1-Trichloroethane	22-SEP-06 16:30	0.144	ND			1	1
1,1,2,2-Tetrachloroethane	22-SEP-06 16:30	0.215	ND			1	1
1,1,2-Trichloroethane	22-SEP-06 16:30	0.724	ND			1	1
1,1-Dichloroethane	22-SEP-06 16:30	0.181	ND			1	1
1,1-Dichloroethene	22-SEP-06 16:30	0.197	ND			1	1
1,2-Dichloroethane	22-SEP-06 16:30	0.131	ND			1	1
1,2-Dichloropropane	22-SEP-06 16:30	0.137	ND			1	1
2-Butanone	22-SEP-06 16:30	3.47	ND			1	5
2-Hexanone	22-SEP-06 16:30	0.719	ND			1	5
4-Methyl-2-Pentanone	22-SEP-06 16:30	0.537	ND			1	5
Acetone	22-SEP-06 16:30	3.43	ND			1	5
Benzene	22-SEP-06 16:30	0.205	ND			1	1
Bromodichloromethane	22-SEP-06 16:30	0.129	ND			1	1
Bromoform	22-SEP-06 16:30	0.201	ND			1	1
Bromomethane	22-SEP-06 16:30	0.179	ND			1	1
Carbon Disulfide	22-SEP-06 16:30	0.188	ND			1	1
Carbon Tetrachloride	22-SEP-06 16:30	0.134	ND			1	1
Chlorobenzene	22-SEP-06 16:30	0.132	ND			1	1
Chloroethane	22-SEP-06 16:30	0.332	ND			1	1
Chloroform	22-SEP-06 16:30	0.0999	ND			1	1
Chloromethane	22-SEP-06 16:30	0.195	ND			1	1
Dibromochloromethane	22-SEP-06 16:30	0.152	ND			1	1
Ethylbenzene	22-SEP-06 16:30	0.263	ND			1	1
Methylene Chloride	22-SEP-06 16:30	0.211	ND			1	1
Styrene	22-SEP-06 16:30	0.0906	ND			1	1
Tetrachloroethene	22-SEP-06 16:30	0.147	ND			1	1
Toluene	22-SEP-06 16:30	0.479	ND			1	1
Trichloroethene	22-SEP-06 16:30	0.163	ND			1	1
Vinyl Chloride	22-SEP-06 16:30	0.148	ND			1	1
cis-1,3-Dichloropropene	22-SEP-06 16:30	0.173	ND			1	1
trans-1,3-Dichloropropene	22-SEP-06 16:30	0.0911	ND			1	1
cis-1,2-Dichloroethene	22-SEP-06 16:30	0.118	ND			1	1
trans-1,2-Dichloroethene	22-SEP-06 16:30	0.148	ND			1	1
o-Xylene	22-SEP-06 16:30	0.112	ND			1	1
m,p-Xylene	22-SEP-06 16:30	0.199	ND			1	2

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L094

Date Printed . . . . . : 26-SEP-06 16:33

Client Name . . . . . : North Dakota State Water Commission
Client Ref Number . . : CCS Sampling
Sampling Site . . . . : 1856
Release Number . . . . : CCS Sampling

Date Received . . . . : 15-SEP-06 00:00

Client Sample Name: RESERVOIR|CAMP CROFTON
DCL Sample Name . . : 06E04368
DCL Report Group . . : 06E-0590-01

Matrix . . . . . : WATER
Date Sampled . . . . : 12-SEP-06 00:00
Reporting Units . . . : ug/L
Report Basis . . . . : [X] As Received [ ] Dried

DCL Preparation Group: Not Applicable
Date Prepared . . . . : Not Applicable
Preparation Method . . : 5030
Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume . . : Not Required

DCL Analysis Group: G068T01B
Analysis Method . . : 8260B
Instrument Type . . . : GC/MS VO
Instrument ID . . . . : 5971-L
Column Type . . . . : DB 624
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
1,1,1-Trichloroethane	25-SEP-06 14:40	0.144	ND			1	1
1,1,2,2-Tetrachloroethane	25-SEP-06 14:40	0.215	ND			1	1
1,1,2-Trichloroethane	25-SEP-06 14:40	0.724	ND			1	1
1,1-Dichloroethane	25-SEP-06 14:40	0.181	ND			1	1
1,1-Dichloroethene	25-SEP-06 14:40	0.197	ND			1	1
1,2-Dichloroethane	25-SEP-06 14:40	0.131	ND			1	1
1,2-Dichloropropane	25-SEP-06 14:40	0.137	ND			1	1
2-Butanone	25-SEP-06 14:40	3.47	ND			1	5
2-Hexanone	25-SEP-06 14:40	0.719	ND			1	5
4-Methyl-2-Pentanone	25-SEP-06 14:40	0.537	ND			1	5
Acetone	25-SEP-06 14:40	3.43	ND			1	5
Benzene	25-SEP-06 14:40	0.205	ND			1	1
Bromodichloromethane	25-SEP-06 14:40	0.129	ND			1	1
Bromoform	25-SEP-06 14:40	0.201	ND			1	1
Bromomethane	25-SEP-06 14:40	0.179	ND			1	1
Carbon Disulfide	25-SEP-06 14:40	0.188	ND			1	1
Carbon Tetrachloride	25-SEP-06 14:40	0.134	ND			1	1
Chlorobenzene	25-SEP-06 14:40	0.132	ND			1	1
Chloroethane	25-SEP-06 14:40	0.332	ND			1	1
Chloroform	25-SEP-06 14:40	0.0999	ND			1	1
Chloromethane	25-SEP-06 14:40	0.195	ND			1	1
Dibromochloromethane	25-SEP-06 14:40	0.152	ND			1	1
Ethylbenzene	25-SEP-06 14:40	0.263	ND			1	1
Methylene Chloride	25-SEP-06 14:40	0.211	ND			1	1
Styrene	25-SEP-06 14:40	0.0906	ND			1	1
Tetrachloroethene	25-SEP-06 14:40	0.147	ND			1	1
Toluene	25-SEP-06 14:40	0.479	ND			1	1
Trichloroethene	25-SEP-06 14:40	0.163	ND			1	1
Vinyl Chloride	25-SEP-06 14:40	0.148	ND			1	1
cis-1,3-Dichloropropene	25-SEP-06 14:40	0.173	ND			1	1
trans-1,3-Dichloropropene	25-SEP-06 14:40	0.0911	ND			1	1
cis-1,2-Dichloroethene	25-SEP-06 14:40	0.118	ND			1	1
trans-1,2-Dichloroethene	25-SEP-06 14:40	0.148	ND			1	1
o-Xylene	25-SEP-06 14:40	0.112	ND			1	1
m,p-Xylene	25-SEP-06 14:40	0.199	ND			1	2

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L095

Date Printed . . . . : 26-SEP-06 16:33

Client Name . . . . . : North Dakota State Water Commission
Client Ref Number . . : CCS Sampling
Sampling Site . . . . : 1856
Release Number . . . . : CCS Sampling

Date Received . . . . : 15-SEP-06 00:00

Client Sample Name: SOUTH SPRING|CAMP CROFTOO
DCL Sample Name : 06E04369
DCL Report Group : 06E-0590-01

Matrix . . . . . : WATER
Date Sampled . . . : 12-SEP-06 00:00
Reporting Units . . : ug/L
Report Basis . . . : [X] As Received [ ] Dried

DCL Preparation Group: Not Applicable
Date Prepared . . . . : Not Applicable
Preparation Method . : 5030
Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume . . : Not Required

DCL Analysis Group: G068T01B
Analysis Method . . : 8260B
Instrument Type . . : GC/MS VO
Instrument ID . . . : 5971-L
Column Type . . . . : DB 624
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
1,1,1-Trichloroethane	25-SEP-06 15:09	0.144	ND			1	1
1,1,2,2-Tetrachloroethane	25-SEP-06 15:09	0.215	ND			1	1
1,1,2-Trichloroethane	25-SEP-06 15:09	0.724	ND			1	1
1,1-Dichloroethane	25-SEP-06 15:09	0.181	ND			1	1
1,1-Dichloroethene	25-SEP-06 15:09	0.197	ND			1	1
1,2-Dichloroethane	25-SEP-06 15:09	0.131	ND			1	1
1,2-Dichloropropane	25-SEP-06 15:09	0.137	ND			1	1
2-Butanone	25-SEP-06 15:09	3.47	ND			1	5
2-Hexanone	25-SEP-06 15:09	0.719	ND			1	5
4-Methyl-2-Pentanone	25-SEP-06 15:09	0.537	ND			1	5
Acetone	25-SEP-06 15:09	3.43	ND			1	5
Benzene	25-SEP-06 15:09	0.205	ND			1	1
Bromodichloromethane	25-SEP-06 15:09	0.129	ND			1	1
Bromoform	25-SEP-06 15:09	0.201	ND			1	1
Bromomethane	25-SEP-06 15:09	0.179	ND			1	1
Carbon Disulfide	25-SEP-06 15:09	0.188	ND			1	1
Carbon Tetrachloride	25-SEP-06 15:09	0.134	ND			1	1
Chlorobenzene	25-SEP-06 15:09	0.132	ND			1	1
Chloroethane	25-SEP-06 15:09	0.332	ND			1	1
Chloroform	25-SEP-06 15:09	0.0999	ND			1	1
Chloromethane	25-SEP-06 15:09	0.195	ND			1	1
Dibromochloromethane	25-SEP-06 15:09	0.152	ND			1	1
Ethylbenzene	25-SEP-06 15:09	0.263	ND			1	1
Methylene Chloride	25-SEP-06 15:09	0.211	ND			1	1
Styrene	25-SEP-06 15:09	0.0906	ND			1	1
Tetrachloroethene	25-SEP-06 15:09	0.147	ND			1	1
Toluene	25-SEP-06 15:09	0.479	ND			1	1
Trichloroethene	25-SEP-06 15:09	0.163	ND			1	1
Vinyl Chloride	25-SEP-06 15:09	0.148	ND			1	1
cis-1,3-Dichloropropene	25-SEP-06 15:09	0.173	ND			1	1
trans-1,3-Dichloropropene	25-SEP-06 15:09	0.0911	ND			1	1
cis-1,2-Dichloroethene	25-SEP-06 15:09	0.118	ND			1	1
trans-1,2-Dichloroethene	25-SEP-06 15:09	0.148	ND			1	1
o-Xylene	25-SEP-06 15:09	0.112	ND			1	1
m,p-Xylene	25-SEP-06 15:09	0.199	ND			1	2

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L096

Date Printed : 26-SEP-06 16:33

Client Name : North Dakota State Water Commission
Client Ref Number : CCS Sampling
Sampling Site : 1856
Release Number : CCS Sampling

Date Received : 15-SEP-06 00:00

Client Sample Name: SOUTH SPRING|FIELD DUP
DCL Sample Name : 06E04370
DCL Report Group : 06E-0590-01

Matrix : WATER
Date Sampled : 12-SEP-06 00:00
Reporting Units : ug/L
Report Basis : [X] As Received [ ] Dried

DCL Preparation Group: Not Applicable
Date Prepared : Not Applicable
Preparation Method : 5030
Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume : Not Required

DCL Analysis Group: G068T01B
Analysis Method : 8260B
Instrument Type : GC/MS VO
Instrument ID : 5971-L
Column Type : DB 624
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
1,1,1-Trichloroethane	25-SEP-06 15:39	0.144	ND			1	1
1,1,2,2-Tetrachloroethane	25-SEP-06 15:39	0.215	ND			1	1
1,1,2-Trichloroethane	25-SEP-06 15:39	0.724	ND			1	1
1,1-Dichloroethane	25-SEP-06 15:39	0.181	ND			1	1
1,1-Dichloroethene	25-SEP-06 15:39	0.197	ND			1	1
1,2-Dichloroethane	25-SEP-06 15:39	0.131	ND			1	1
1,2-Dichloropropane	25-SEP-06 15:39	0.137	ND			1	1
2-Butanone	25-SEP-06 15:39	3.47	ND			1	5
2-Hexanone	25-SEP-06 15:39	0.719	ND			1	5
4-Methyl-2-Pentanone	25-SEP-06 15:39	0.537	ND			1	5
Acetone	25-SEP-06 15:39	3.43	ND			1	5
Benzene	25-SEP-06 15:39	0.205	ND			1	1
Bromodichloromethane	25-SEP-06 15:39	0.129	ND			1	1
Bromoform	25-SEP-06 15:39	0.201	ND			1	1
Bromomethane	25-SEP-06 15:39	0.179	ND			1	1
Carbon Disulfide	25-SEP-06 15:39	0.188	ND			1	1
Carbon Tetrachloride	25-SEP-06 15:39	0.134	ND			1	1
Chlorobenzene	25-SEP-06 15:39	0.132	ND			1	1
Chloroethane	25-SEP-06 15:39	0.332	ND			1	1
Chloroform	25-SEP-06 15:39	0.0999	ND			1	1
Chloromethane	25-SEP-06 15:39	0.195	ND			1	1
Dibromochloromethane	25-SEP-06 15:39	0.152	ND			1	1
Ethylbenzene	25-SEP-06 15:39	0.263	ND			1	1
Methylene Chloride	25-SEP-06 15:39	0.211	ND			1	1
Styrene	25-SEP-06 15:39	0.0906	ND			1	1
Tetrachloroethene	25-SEP-06 15:39	0.147	ND			1	1
Toluene	25-SEP-06 15:39	0.479	ND			1	1
Trichloroethene	25-SEP-06 15:39	0.163	ND			1	1
Vinyl Chloride	25-SEP-06 15:39	0.148	ND			1	1
cis-1,3-Dichloropropene	25-SEP-06 15:39	0.173	ND			1	1
trans-1,3-Dichloropropene	25-SEP-06 15:39	0.0911	ND			1	1
cis-1,2-Dichloroethene	25-SEP-06 15:39	0.118	ND			1	1
trans-1,2-Dichloroethene	25-SEP-06 15:39	0.148	ND			1	1
o-Xylene	25-SEP-06 15:39	0.112	ND			1	1
m,p-Xylene	25-SEP-06 15:39	0.199	ND			1	2

DATA CHEM LABORATORIES
A Sorenson Company

FORM B (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)

S068P06F

Client Name . . . . . : North Dakota State Water Commission
Release Number . . . . : CCS Sampling

Matrix . . . . . : WATER
Reporting Units . . . : ug/L

DCL Preparation Group: Not Applicable
Date Prepared . . . . : Not Applicable
Preparation Method . . : 5030

DCL Sample Name . . : QC-250874-1
Date Printed . . . : 26-SEP-06 16:33

DCL Analysis Group: G068T01B
Analysis Method . . : SW 8260B
Instrument Type . . : GC/MS VO
Instrument ID . . . : 5971-L
Column Type . . . . : DB 624
☒ Primary
☐ Confirmation

QC Limit Type . . . : Method

Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
1,1,1-Trichloroethane	22-SEP-06 12:37	50.0	51.5	103.	75.0/125.	
1,1,2,2-Tetrachloroethane	22-SEP-06 12:37	50.0	44.4	88.7	74.0/125.	
1,1,2-Trichloroethane	22-SEP-06 12:37	50.0	40.3	80.7	75.0/127.	
1,1-Dichloroethane	22-SEP-06 12:37	50.0	49.4	98.8	72.0/125.	
1,1-Dichloroethene	22-SEP-06 12:37	50.0	58.7	117.	75.0/125.	
1,2-Dichloroethane	22-SEP-06 12:37	50.0	45.9	91.8	68.0/127.	
1,2-Dichloropropane	22-SEP-06 12:37	50.0	45.8	91.6	70.0/125.	
2-Butanone	22-SEP-06 12:37	50.0	45.6	91.2	50.0/150.	
2-Hexanone	22-SEP-06 12:37	50.0	43.1	86.2	50.0/150.	
4-Methyl-2-Pentanone	22-SEP-06 12:37	50.0	42.9	85.7	50.0/150.	
Acetone	22-SEP-06 12:37	50.0	54.2	108.	50.0/150.	
Benzene	22-SEP-06 12:37	50.0	52.6	105.	75.0/125.	
Bromodichloromethane	22-SEP-06 12:37	50.0	45.2	90.3	75.0/125.	
Bromoform	22-SEP-06 12:37	50.0	45.5	91.1	75.0/125.	
Bromomethane	22-SEP-06 12:37	50.0	52.9	106.	72.0/125.	
Carbon Disulfide	22-SEP-06 12:37	50.0	57.6	115.	75.0/125.	
Carbon Tetrachloride	22-SEP-06 12:37	50.0	52.2	104.	62.0/125.	
Chlorobenzene	22-SEP-06 12:37	50.0	50.5	101.	75.0/125.	
Chloroethane	22-SEP-06 12:37	50.0	56.9	114.	65.0/125.	
Chloroform	22-SEP-06 12:37	50.0	48.5	97.0	74.0/125.	
Chloromethane	22-SEP-06 12:37	50.0	54.2	108.	75.0/125.	
Dibromochloromethane	22-SEP-06 12:37	50.0	45.5	91.0	73.0/125.	
Ethylbenzene	22-SEP-06 12:37	50.0	53.6	107.	75.0/125.	
Methylene Chloride	22-SEP-06 12:37	50.0	51.4	103.	75.0/125.	
Styrene	22-SEP-06 12:37	50.0	51.0	102.	75.0/125.	
Tetrachloroethene	22-SEP-06 12:37	50.0	49.7	99.5	71.0/125.	
Toluene	22-SEP-06 12:37	50.0	52.2	104.	74.0/125.	
Trichloroethene	22-SEP-06 12:37	50.0	49.1	98.2	71.0/125.	
Vinyl Chloride	22-SEP-06 12:37	50.0	51.2	102.	46.0/134.	
cis-1,3-Dichloropropene	22-SEP-06 12:37	50.0	46.3	92.6	74.0/125.	
trans-1,3-Dichloropropene	22-SEP-06 12:37	50.0	45.4	90.8	66.0/125.	
cis-1,2-Dichloroethene	22-SEP-06 12:37	50.0	49.1	98.3	75.0/125.	
trans-1,2-Dichloroethene	22-SEP-06 12:37	50.0	53.1	106.	75.0/125.	
o-Xylene	22-SEP-06 12:37	50.0	48.8	97.7	75.0/125.	
m,p-Xylene	22-SEP-06 12:37	100.	104.	104.	75.0/125.	

DATA CHEM LABORATORIES
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FORM C (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
BLANK SAMPLE

S068P06D

Client Name . . . . . : North Dakota State Water Commission
Release Number . . . . : CCS Sampling

Matrix . . . . . : WATER
Reporting Units . . . : ug/L

DCL Preparation Group: Not Applicable
Date Prepared . . . . : Not Applicable
Preparation Method . . : 5030

DCL Sample Name . . : BL-250874-1
Date Printed . . . . : 26-SEP-06 16:33

DCL Analysis Group: G068T01B
Analysis Method . . : 8260B
Instrument Type . . : GC/MS VO
Instrument ID . . . : 5971-L
Column Type . . . . : DB 624
[X] Primary
[ ] Confirmation

QC Limit Type . . . : Method

Analytical Results

Analyte	Date Analyzed	Result	MDL	CRDL
1,1,1-Trichloroethane	22-SEP-06 13:35	ND	0.144	1
1,1,2,2-Tetrachloroethane	22-SEP-06 13:35	ND	0.215	1
1,1,2-Trichloroethane	22-SEP-06 13:35	ND	0.724	1
1,1-Dichloroethane	22-SEP-06 13:35	ND	0.181	1
1,1-Dichloroethene	22-SEP-06 13:35	ND	0.197	1
1,2-Dichloroethane	22-SEP-06 13:35	ND	0.131	1
1,2-Dichloropropane	22-SEP-06 13:35	ND	0.137	1
2-Butanone	22-SEP-06 13:35	ND	3.47	5
2-Hexanone	22-SEP-06 13:35	ND	0.719	5
4-Methyl-2-Pentanone	22-SEP-06 13:35	ND	0.537	5
Acetone	22-SEP-06 13:35	ND	3.43	5
Benzene	22-SEP-06 13:35	ND	0.205	1
Bromodichloromethane	22-SEP-06 13:35	ND	0.129	1
Bromoform	22-SEP-06 13:35	ND	0.201	1
Bromomethane	22-SEP-06 13:35	ND	0.179	1
Carbon Disulfide	22-SEP-06 13:35	ND	0.188	1
Carbon Tetrachloride	22-SEP-06 13:35	ND	0.134	1
Chlorobenzene	22-SEP-06 13:35	ND	0.132	1
Chloroethane	22-SEP-06 13:35	ND	0.332	1
Chloroform	22-SEP-06 13:35	ND	0.0999	1
Chloromethane	22-SEP-06 13:35	ND	0.195	1
Dibromochloromethane	22-SEP-06 13:35	ND	0.152	1
Ethylbenzene	22-SEP-06 13:35	ND	0.263	1
Methylene Chloride	22-SEP-06 13:35	ND	0.211	1
Styrene	22-SEP-06 13:35	ND	0.0906	1
Tetrachloroethene	22-SEP-06 13:35	ND	0.147	1
Toluene	22-SEP-06 13:35	ND	0.479	1
Trichloroethene	22-SEP-06 13:35	ND	0.163	1
Vinyl Chloride	22-SEP-06 13:35	ND	0.148	1
cis-1,3-Dichloropropene	22-SEP-06 13:35	ND	0.173	1
trans-1,3-Dichloropropene	22-SEP-06 13:35	ND	0.0911	1
cis-1,2-Dichloroethene	22-SEP-06 13:35	ND	0.118	1
trans-1,2-Dichloroethene	22-SEP-06 13:35	ND	0.148	1
o-Xylene	22-SEP-06 13:35	ND	0.112	1
m,p-Xylene	22-SEP-06 13:35	ND	0.199	2

DATA CHEM LABORATORIES
A Sorenson Company

FORM C (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
BLANK SAMPLE

S068S0G5

Client Name : North Dakota State Water Commission
Release Number : CCS Sampling

Matrix : WATER
Reporting Units : ug/L

DCL Preparation Group: Not Applicable
Date Prepared : Not Applicable
Preparation Method : 5030

DCL Sample Name : BL-250874-2
Date Printed : 26-SEP-06 16:33

DCL Analysis Group: G068T01B
Analysis Method : 8260B
Instrument Type : GC/MS VO
Instrument ID : 5971-L
Column Type : DB 624
[X] Primary
[ ] Confirmation

QC Limit Type : Method

Analytical Results

Analyte	Date Analyzed	Result	MDL	CRDL
1,1,1-Trichloroethane	25-SEP-06 14:10	ND	0.144	1
1,1,2,2-Tetrachloroethane	25-SEP-06 14:10	ND	0.215	1
1,1,2-Trichloroethane	25-SEP-06 14:10	ND	0.724	1
1,1-Dichloroethane	25-SEP-06 14:10	ND	0.181	1
1,1-Dichloroethene	25-SEP-06 14:10	ND	0.197	1
1,2-Dichloroethane	25-SEP-06 14:10	ND	0.131	1
1,2-Dichloropropane	25-SEP-06 14:10	ND	0.137	1
2-Butanone	25-SEP-06 14:10	ND	3.47	5
2-Hexanone	25-SEP-06 14:10	ND	0.719	5
4-Methyl-2-Pentanone	25-SEP-06 14:10	ND	0.537	5
Acetone	25-SEP-06 14:10	ND	3.43	5
Benzene	25-SEP-06 14:10	ND	0.205	1
Bromodichloromethane	25-SEP-06 14:10	ND	0.129	1
Bromoform	25-SEP-06 14:10	ND	0.201	1
Bromomethane	25-SEP-06 14:10	ND	0.179	1
Carbon Disulfide	25-SEP-06 14:10	ND	0.188	1
Carbon Tetrachloride	25-SEP-06 14:10	ND	0.134	1
Chlorobenzene	25-SEP-06 14:10	ND	0.132	1
Chloroethane	25-SEP-06 14:10	ND	0.332	1
Chloroform	25-SEP-06 14:10	ND	0.0999	1
Chloromethane	25-SEP-06 14:10	ND	0.195	1
Dibromochloromethane	25-SEP-06 14:10	ND	0.152	1
Ethylbenzene	25-SEP-06 14:10	ND	0.263	1
Methylene Chloride	25-SEP-06 14:10	ND	0.211	1
Styrene	25-SEP-06 14:10	ND	0.0906	1
Tetrachloroethene	25-SEP-06 14:10	ND	0.147	1
Toluene	25-SEP-06 14:10	ND	0.479	1
Trichloroethene	25-SEP-06 14:10	ND	0.163	1
Vinyl Chloride	25-SEP-06 14:10	ND	0.148	1
cis-1,3-Dichloropropene	25-SEP-06 14:10	ND	0.173	1
trans-1,3-Dichloropropene	25-SEP-06 14:10	ND	0.0911	1
cis-1,2-Dichloroethene	25-SEP-06 14:10	ND	0.118	1
trans-1,2-Dichloroethene	25-SEP-06 14:10	ND	0.148	1
o-Xylene	25-SEP-06 14:10	ND	0.112	1
m,p-Xylene	25-SEP-06 14:10	ND	0.199	2

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DATA CHEM LABORATORIES
A Sorenson Company

FORM F (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE

S068L08X

Client Name : North Dakota State Water Commission
Release Number : CCS Sampling

Matrix : WATER
Reporting Units : ug/L

DCL Preparation Group: Not Applicable
Date Prepared : Not Applicable
Preparation Method : 5030

DCL Sample Name : **06E04358MS**
Date Printed : 26-SEP-06 16:33

DCL Analysis Group: G068T01B
Analysis Method : SW 8260B
Instrument Type : GC/MS VO
Instrument ID : 5971-L
Column Type : DB 624
[X] Primary
[ ] Confirmation

QC Limit Type : Method

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
1,1,1-Trichloroethane	25-SEP-06 16:08	ND	49.1	50.0	98.1	75.0/125.	
1,1,2,2-Tetrachloroethane	25-SEP-06 16:08	ND	50.1	50.0	100.	74.0/125.	
1,1,2-Trichloroethane	25-SEP-06 16:08	ND	45.0	50.0	89.9	75.0/127.	
1,1-Dichloroethane	25-SEP-06 16:08	ND	47.4	50.0	94.8	72.0/125.	
1,1-Dichloroethene	25-SEP-06 16:08	ND	48.1	50.0	96.3	75.0/125.	
1,2-Dichloroethane	25-SEP-06 16:08	ND	48.6	50.0	97.3	68.0/127.	
1,2-Dichloropropane	25-SEP-06 16:08	ND	47.8	50.0	95.6	70.0/125.	
2-Butanone	25-SEP-06 16:08	ND	44.5	50.0	88.9	50.0/150.	
2-Hexanone	25-SEP-06 16:08	ND	44.2	50.0	88.3	50.0/150.	
4-Methyl-2-Pentanone	25-SEP-06 16:08	ND	47.5	50.0	94.9	50.0/150.	
Acetone	25-SEP-06 16:08	ND	45.7	50.0	91.3	50.0/150.	
Benzene	25-SEP-06 16:08	ND	49.2	50.0	98.4	75.0/125.	
Bromodichloromethane	25-SEP-06 16:08	ND	47.2	50.0	94.3	75.0/125.	
Bromoform	25-SEP-06 16:08	ND	49.4	50.0	98.8	75.0/125.	
Bromomethane	25-SEP-06 16:08	ND	44.4	50.0	88.8	72.0/125.	
Carbon Disulfide	25-SEP-06 16:08	ND	47.3	50.0	94.6	75.0/125.	
Carbon Tetrachloride	25-SEP-06 16:08	ND	49.6	50.0	99.2	62.0/125.	
Chlorobenzene	25-SEP-06 16:08	ND	49.2	50.0	98.3	75.0/125.	
Chloroethane	25-SEP-06 16:08	ND	50.4	50.0	101.	65.0/125.	
Chloroform	25-SEP-06 16:08	ND	49.5	50.0	99.0	74.0/125.	
Chloromethane	25-SEP-06 16:08	ND	46.6	50.0	93.3	75.0/125.	
Dibromochloromethane	25-SEP-06 16:08	ND	48.2	50.0	96.5	73.0/125.	
Ethylbenzene	25-SEP-06 16:08	ND	48.7	50.0	97.5	75.0/125.	
Methylene Chloride	25-SEP-06 16:08	ND	47.6	50.0	95.2	75.0/125.	
Styrene	25-SEP-06 16:08	ND	47.0	50.0	94.0	75.0/125.	
Tetrachloroethene	25-SEP-06 16:08	ND	47.7	50.0	95.5	71.0/125.	
Toluene	25-SEP-06 16:08	ND	49.6	50.0	99.2	74.0/125.	
Trichloroethene	25-SEP-06 16:08	ND	47.8	50.0	95.5	71.0/125.	
Vinyl Chloride	25-SEP-06 16:08	ND	44.9	50.0	89.8	46.0/134.	
cis-1,3-Dichloropropene	25-SEP-06 16:08	ND	47.8	50.0	95.5	74.0/125.	
trans-1,3-Dichloropropene	25-SEP-06 16:08	ND	48.5	50.0	96.9	66.0/125.	
cis-1,2-Dichloroethene	25-SEP-06 16:08	ND	48.3	50.0	96.6	75.0/125.	
trans-1,2-Dichloroethene	25-SEP-06 16:08	ND	47.6	50.0	95.2	75.0/125.	
o-Xylene	25-SEP-06 16:08	ND	48.0	50.0	96.0	75.0/125.	
m,p-Xylene	25-SEP-06 16:08	ND	97.1	100.	97.1	75.0/125.	

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FORM F (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE

Client Name . . . . : North Dakota State Water Commission

DCL Sample Name : **06E04358MSD**
Date Printed . . . : 26-SEP-06 16:33

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
1,1,1-Trichloroethane	25-SEP-06 16:38	50.0	100.	49.6	0.964	1.9	0.00/20.0	
1,1,2,2-Tetrachloroethane	25-SEP-06 16:38	51.7	103.	50.9	1.65	3.2	0.00/20.0	
1,1,2-Trichloroethane	25-SEP-06 16:38	46.4	92.8	45.7	1.42	3.1	0.00/20.0	
1,1-Dichloroethane	25-SEP-06 16:38	48.5	97.1	48.0	1.15	2.4	0.00/20.0	
1,1-Dichloroethene	25-SEP-06 16:38	51.1	102.	49.6	3.02	6.1	0.00/20.0	
1,2-Dichloroethane	25-SEP-06 16:38	48.8	97.6	48.7	0.132	0.27	0.00/20.0	
1,2-Dichloropropane	25-SEP-06 16:38	48.1	96.2	48.0	0.289	0.60	0.00/20.0	
2-Butanone	25-SEP-06 16:38	47.2	94.4	45.8	2.74	6.0	0.00/20.0	
2-Hexanone	25-SEP-06 16:38	44.7	89.4	44.4	0.511	1.2	0.00/20.0	
4-Methyl-2-Pentanone	25-SEP-06 16:38	49.9	99.8	48.7	2.46	5.1	0.00/20.0	
Acetone	25-SEP-06 16:38	46.3	92.6	46.0	0.650	1.4	0.00/20.0	
Benzene	25-SEP-06 16:38	49.6	99.2	49.4	0.400	0.81	0.00/20.0	
Bromodichloromethane	25-SEP-06 16:38	48.2	96.4	47.7	1.02	2.1	0.00/20.0	
Bromoform	25-SEP-06 16:38	50.3	101.	49.9	0.903	1.8	0.00/20.0	
Bromomethane	25-SEP-06 16:38	48.5	97.0	46.5	4.13	8.9	0.00/20.0	
Carbon Disulfide	25-SEP-06 16:38	50.5	101.	48.9	3.19	6.5	0.00/20.0	
Carbon Tetrachloride	25-SEP-06 16:38	51.5	103.	50.5	1.85	3.7	0.00/20.0	
Chlorobenzene	25-SEP-06 16:38	49.9	99.8	49.5	0.764	1.5	0.00/20.0	
Chloroethane	25-SEP-06 16:38	52.9	106.	51.6	2.51	4.9	0.00/20.0	
Chloroform	25-SEP-06 16:38	48.5	97.0	49.0	0.976	2.0	0.00/20.0	
Chloromethane	25-SEP-06 16:38	46.5	93.0	46.6	0.150	0.32	0.00/20.0	
Dibromochloromethane	25-SEP-06 16:38	48.9	97.8	48.6	0.691	1.4	0.00/20.0	
Ethylbenzene	25-SEP-06 16:38	51.2	102.	49.9	2.41	4.8	0.00/20.0	
Methylene Chloride	25-SEP-06 16:38	49.9	99.8	48.7	2.32	4.8	0.00/20.0	
Styrene	25-SEP-06 16:38	47.3	94.6	47.1	0.311	0.66	0.00/20.0	
Tetrachloroethene	25-SEP-06 16:38	48.9	97.9	48.3	1.20	2.5	0.00/20.0	
Toluene	25-SEP-06 16:38	50.5	101.	50.0	0.867	1.7	0.00/20.0	
Trichloroethene	25-SEP-06 16:38	49.9	99.9	48.8	2.17	4.4	0.00/20.0	
Vinyl Chloride	25-SEP-06 16:38	49.4	98.8	47.2	4.52	9.6	0.00/20.0	
cis-1,3-Dichloropropene	25-SEP-06 16:38	48.6	97.1	48.2	0.787	1.6	0.00/20.0	
trans-1,3-Dichloropropene	25-SEP-06 16:38	49.0	98.1	48.7	0.555	1.1	0.00/20.0	
cis-1,2-Dichloroethene	25-SEP-06 16:38	48.9	97.9	48.6	0.628	1.3	0.00/20.0	
trans-1,2-Dichloroethene	25-SEP-06 16:38	49.9	99.9	48.8	2.35	4.8	0.00/20.0	
o-Xylene	25-SEP-06 16:38	48.8	97.5	48.4	0.742	1.5	0.00/20.0	
m,p-Xylene	25-SEP-06 16:38	98.4	98.4	97.7	1.28	1.3	0.00/20.0	

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FORM G (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
SURROGATE SUMMARY

G068T01B

Client Name . . . . . : North Dakota State Water Commission
Release Number . . . . . : CCS Sampling

Matrix . . . . . : WATER
Reporting Units . . . . : ug/L

Date Printed . . . : 26-SEP-06 16:33

DCL Analysis Group: G068T01B
Analysis Method . . : SW 8260B

DCL Prep Group . . . : Not Applicable
Preparation Method: 5030

QC Limit Type . . . : Method

Surrogate Recoveries

Surr. ID	1,2-Dichloroethane-d4				4-Bromofluorobenzene				Dibromofluoromethane			
QC Limits	62.0/139.				75.0/125.				75.0/125.			
DCL Sample Number	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q
06E04358	48.2	50.0	96.5		53.0	50.0	106.		50.7	50.0	101.	
06E04358MS	47.4	50.0	94.8		48.8	50.0	97.5		50.3	50.0	101.	
06E04358MSD	48.6	50.0	97.3		49.7	50.0	99.4		50.7	50.0	101.	
06E04359	48.1	50.0	96.1		51.5	50.0	103.		49.4	50.0	98.8	
06E04360	47.7	50.0	95.4		52.6	50.0	105.		50.1	50.0	100.	
06E04362	48.6	50.0	97.1		51.9	50.0	104.		49.2	50.0	98.3	
06E04366	48.0	50.0	96.0		52.5	50.0	105.		50.3	50.0	101.	
06E04367	47.8	50.0	95.7		51.7	50.0	103.		50.2	50.0	100.	
06E04368	48.4	50.0	96.8		52.0	50.0	104.		51.3	50.0	103.	
06E04369	47.0	50.0	94.1		51.3	50.0	103.		50.1	50.0	100.	
06E04370	47.4	50.0	94.7		51.4	50.0	103.		50.5	50.0	101.	
BL-250874-1	45.0	50.0	90.0		52.4	50.0	105.		47.5	50.0	95.0	
BL-250874-2	43.3	50.0	86.6		50.5	50.0	101.		48.6	50.0	97.2	
QC-250874-1	45.1	50.0	90.2		49.5	50.0	99.1		48.9	50.0	97.8	

Surr. ID	Toluene-d8											
QC Limits	75.0/125.											
DCL Sample Number	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q
06E04358	47.3	50.0	94.5									
06E04358MS	48.5	50.0	97.1									
06E04358MSD	49.3	50.0	98.7									
06E04359	47.3	50.0	94.7									
06E04360	48.2	50.0	96.4									
06E04362	47.8	50.0	95.7									
06E04366	47.9	50.0	95.8									
06E04367	48.1	50.0	96.1									
06E04368	47.3	50.0	94.5									
06E04369	47.5	50.0	95.0									
06E04370	48.3	50.0	96.7									
BL-250874-1	48.4	50.0	96.7									
BL-250874-2	48.0	50.0	96.0									
QC-250874-1	49.1	50.0	98.2									

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Phone (801) 266-7700
FAX (801) 268-9992
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E-mail: lab@datachem.com

Appendix B-2, EPA Method 8270C

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Case Narrative

Method: 8270C
Analysis: Semivolatiles by GC/MS
DCL SOP ref: OE-SW-3510, OS-SW-8270C
DCL Set ID: 06E-0590-02

Client: North Dakota State Water Commission
Matrix: Water

General Set Information: There are thirteen field samples in this reporting group plus two sets of MS/MSD.

Method Summary : This is a GC/MS method for determination of semivolatile organic compounds in water according to the SW-846 Guidelines. One liter of sample was spiked with surrogates, extracted by separatory funnel and then concentrated to a final volume of 1.0 mL. The resulting extract is analyzed using a Hewlett Packard model 5973 GC/MS system with an electron impact ionization source and a quadrapole mass-filter detector.

Sample Preparation: All samples were prepared in accordance with method 3510.

Holding Times: All samples were extracted within the method-specified holding time.

Dilution(s): There were no sample dilutions.

Method and Sample QC data: Most samples met surrogate recovery and internal standard area criteria. Sample 06E04358 (13102) had a low recovery of surrogates 2,4,6-tribromophenol and terphenyl-d14. Similar results were observed upon analysis of the matrix spiking of this sample (06E04358MS).

Sample 06E04369 (South spring) is suspected of splash contamination from matrix spiking of nearby samples during the extraction procedure. There were numerous target compounds detected in this sample, all below the practical quantitation limit. Fortunately, this sample was received along with a field duplicate (06E04370; South spring field duplicate), which did not exhibit similar results.

MS/MSD Analysis: Matrix spiking was performed on samples 06E04358 (13102) and 06E04365 (13087). Most recoveries and reproducibilities were within QC limits. 06E04358 had a low recovery of terphenyl-d14, which is similar to the non-matrix spiked analysis of this sample, as mentioned above.

Instrument QC: The instrument was tuned with 50 ng DFTPP. A six-point initial calibration curve was analyzed prior to sample analysis. The concentrations of the standards for most analytes were: 5, 20, 35, 50, 65 and 80 µg/mL. Five analytes were calibrated from 20-95 ug/mL.

A calibration verification standard at a concentration of 50 ug/mL was analyzed to verify instrument reponse against the initial calibration. The initial calibration and continuing calibration verification passed all method criteria.

Miscellaneous Comments: At the request of North Dakota State Water Commission, up to twenty of the largest non-target compounds are reported as tentatively-identified compounds.

9-28-06

Jeremy R. Marsigli Date

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COVER PAGE

SEP 28 2006

Form COVER-V1.4
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ANALYTICAL REPORT FOR
North Dakota State Water Commission

Phone(703) 328-2739 Fax(701) 328-3696

G068L024

DCL Report Group...: 06E-0590-02

Date Printed.....: 29-SEP-06 09:41

Project Protocol #: P0186001
Client Ref Number.: CCS Sampling
Release Number....: CCS Sampling

Analysis Method(s): 8270C

North Dakota State Water Commission
Attention: W.M. Schuh
900 East Boulevard
Bismarck, ND 58505

Client Sample Name	Laboratory Sample Name	Date Sampled	Date Received
Method Blank	BL-250878-1	NA	NA
LCS	QC-250878-1	NA	NA
13102	06E04358	11-SEP-06	15-SEP-06
13102	06E04358MS	11-SEP-06	15-SEP-06
13102	06E04358MSD	11-SEP-06	15-SEP-06
13102|FIELD DUP	06E04373	12-SEP-06	15-SEP-06
FIELD BLANK	06E04359	13-SEP-06	15-SEP-06
13086	06E04360	11-SEP-06	15-SEP-06
13101	06E04362	11-SEP-06	15-SEP-06
13103	06E04363	11-SEP-06	15-SEP-06
13104	06E04364	11-SEP-06	15-SEP-06
13087	06E04365	12-SEP-06	15-SEP-06
13087	06E04365MS	12-SEP-06	15-SEP-06
13087	06E04365MSD	12-SEP-06	15-SEP-06
13097|CAMP CROFTON	06E04366	12-SEP-06	15-SEP-06
13098	06E04367	12-SEP-06	15-SEP-06
RESERVOIR	06E04368	12-SEP-06	15-SEP-06
SOUTH SPRING	06E04369	12-SEP-06	15-SEP-06
SOUTH SPRING|FIELD DUP	06E04370	12-SEP-06	15-SEP-06

Analyst: Jeremy R. Marsigli — 9-29-06 Date

Reviewer: Reed A. Hendricks — 9-29-06 Date

Lab Supervisor: Reed A. Hendricks — 9-29-06 Date

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SAMPLE GROUP COMMENTS

DCL Report Group..: 06E-0590-02
Date Printed.....: 29-SEP-06 09:41

Client Name...: North Dakota State Water Commission

Release Number....: CCS Sampling

Sample Group Comments

X Flag: The qualifier indicates that the analyte is a suspected product of laboratory contamination.

General Information

The DCL QC Database maintains all numerical figures which are input from the pertinent data source. These data have not been rounded to significant figures nor have they been moisture corrected. Reports generated from the system, however, list data which have been rounded to the number of significant figures requested by the client or deemed appropriate for the method. This may create minor discrepancies between data which appear on the QC Summary Forms (Forms B-G) and those that would be calculated from rounded analytical results. Additionally, if a moisture correction is performed, differences will be observed between the QC data and the surrogate data reported on Form A (or other report forms) and corresponding data reported on QC Summary Forms. In these cases, the Form A will indicate the "Report Basis" as well as the moisture value used for making the correction.

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Report generation options: BX

Result Symbol Definitions

ND - Not Detected above the MDL (LLD or MDC for radiochemistry).
** - No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U - Not Detected above the MDL (LLD or MDC for radiochemistry).
B - For organic analyses the qualifier indicates that this analyte was found in the method blank. For inorganic analyses the qualifier signifies the value is between the MDL and PQL.
J - For organic analyses the qualifier indicates that the value is between the MDL and the PQL. It is also used for indicating an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

QC Flag Symbol Definitions

* - Parameter outside of specified QC limits.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L09Y

Date Printed.....: 29-SEP-06 09:41

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068M00M
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 3510
Aliquot Weight/Volume: 1000 mL
Net Weight/Volume....: Not Required

Client Sample Name: **13102**
DCL Sample Name...: **06E04358**
DCL Report Group..: **06E-0590-02**

Matrix.....: WATER
Date Sampled.....: 11-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: ☒ As Received ☐ Dried

DCL Analysis Group: G068M00M
Analysis Method...: 8270C
Instrument Type...: GC/MS SV
Instrument ID.....: 5973-Y
Column Type.....: DB5 30M x .32mm
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Pyridine	26-SEP-06 18:04	0.381	ND			1	5
Phenol	26-SEP-06 18:04	0.266	ND			1	5
Bis(2-chloroethyl)ether	26-SEP-06 18:04	0.339	ND			1	5
2-Chlorophenol	26-SEP-06 18:04	0.429	ND			1	5
1,3-Dichlorobenzene	26-SEP-06 18:04	0.290	ND			1	5
1,4-Dichlorobenzene	26-SEP-06 18:04	0.379	ND			1	5
Benzyl Alcohol	26-SEP-06 18:04	0.402	ND			1	5
1,2-Dichlorobenzene	26-SEP-06 18:04	0.241	ND			1	5
2-Methylphenol	26-SEP-06 18:04	0.216	ND			1	5
Bis(2-chloroisopropyl)ether	26-SEP-06 18:04	0.356	ND			1	5
4-Methylphenol	26-SEP-06 18:04	0.114	ND			1	5
N-Nitrosodi-n-propyl amine	26-SEP-06 18:04	0.971	ND			1	5
Hexachloroethane	26-SEP-06 18:04	0.272	ND			1	5
Nitrobenzene	26-SEP-06 18:04	0.392	ND			1	5
Isophorone	26-SEP-06 18:04	0.415	ND			1	5
2-Nitrophenol	26-SEP-06 18:04	0.457	ND			1	5
2,4-Dimethylphenol	26-SEP-06 18:04	0.992	ND			1	5
Benzoic acid	26-SEP-06 18:04	3.19	ND			1	20
bis(2-Chloroethoxy)methane	26-SEP-06 18:04	0.427	ND			1	5
2,4-Dichlorophenol	26-SEP-06 18:04	0.361	ND			1	5
1,2,4-Trichlorobenzene	26-SEP-06 18:04	0.337	ND			1	5
Naphthalene	26-SEP-06 18:04	0.660	ND			1	5
4-Chloroaniline	26-SEP-06 18:04	0.249	ND			1	5
Hexachlorobutadiene	26-SEP-06 18:04	0.353	ND			1	5
4-Chloro-3-methylphenol	26-SEP-06 18:04	0.337	ND			1	5
2-Methylnaphthalene	26-SEP-06 18:04	0.505	ND			1	5
Hexachlorocyclopentadiene	26-SEP-06 18:04	0.266	ND			1	5
2,4,6-Trichlorophenol	26-SEP-06 18:04	0.299	ND			1	5
2,4,5-Trichlorophenol	26-SEP-06 18:04	0.225	ND			1	5
2-Chloronaphthalene	26-SEP-06 18:04	0.367	ND			1	5
2-Nitroaniline	26-SEP-06 18:04	0.361	ND			1	5
Dimethylphthalate	26-SEP-06 18:04	0.346	ND			1	5
2,6-Dinitrotoluene	26-SEP-06 18:04	0.552	ND			1	5
Acenaphthylene	26-SEP-06 18:04	0.432	ND			1	5
3-Nitroaniline	26-SEP-06 18:04	0.429	ND			1	5
Acenaphthene	26-SEP-06 18:04	0.494	ND			1	5
2,4-Dinitrophenol	26-SEP-06 18:04	2.57	ND			1	20
4-Nitrophenol	26-SEP-06 18:04	2.00	ND			1	20
Dibenzofuran	26-SEP-06 18:04	0.577	ND			1	5
2,4-Dinitrotoluene	26-SEP-06 18:04	0.328	ND			1	5
Diethylphthalate	26-SEP-06 18:04	0.435	ND			1	5

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L09Y

Date Printed.....: 29-SEP-06 09:41
Client Name.....: North Dakota State Water Commission

DCL Sample Name...: 06E04358
DCL Report Group..: 06E-0590-02

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
4-Chlorophenyl phenyl ether	26-SEP-06 18:04	0.392	ND			1	5
Fluorene	26-SEP-06 18:04	0.363	ND			1	5
4-Nitroaniline	26-SEP-06 18:04	0.263	ND			1	5
4,6-Dinitro-2-methylphenol	26-SEP-06 18:04	2.28	ND			1	20
N-nitrosodiphenylamine	26-SEP-06 18:04	0.645	ND			1	5
4-Bromophenyl Phenyl Ether	26-SEP-06 18:04	0.394	ND			1	5
Hexachlorobenzene	26-SEP-06 18:04	0.255	ND			1	5
Pentachlorophenol	26-SEP-06 18:04	1.66	ND			1	20
Phenanthrene	26-SEP-06 18:04	0.416	ND			1	5
Anthracene	26-SEP-06 18:04	0.331	ND			1	5
Carbazole	26-SEP-06 18:04	0.327	ND			1	5
Di-n-butylphthalate	26-SEP-06 18:04	0.807	ND			1	5
Fluoranthene	26-SEP-06 18:04	0.515	ND			1	5
Pyrene	26-SEP-06 18:04	0.441	ND			1	5
Butylbenzylphthalate	26-SEP-06 18:04	4.01	ND			1	5
3,3'-Dichlorobenzidine	26-SEP-06 18:04	1.55	ND			1	5
Benzo(a)anthracene	26-SEP-06 18:04	0.335	ND			1	5
Chrysene	26-SEP-06 18:04	0.184	ND			1	5
Bis(2-ethylhexyl)phthalate	26-SEP-06 18:04	1.53	ND			1	5
Di-n-octylphthalate	26-SEP-06 18:04	1.32	ND			1	5
Benzo(b)fluoranthene	26-SEP-06 18:04	0.265	ND			1	5
Benzo(k)fluoranthene	26-SEP-06 18:04	0.272	ND			1	5
Benzo(a)pyrene	26-SEP-06 18:04	0.221	ND			1	5
Indeno(1,2,3-c,d)pyrene	26-SEP-06 18:04	0.412	ND			1	5
Dibenz(a,h)Anthracene	26-SEP-06 18:04	0.407	ND			1	5
Benzo(g,h,i)perylene	26-SEP-06 18:04	0.446	ND			1	5

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual.	Dilution
Polycyclic hydrocarbon(19.01)	26-SEP-06 18:04	9.8		JB	1

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0B1

Date Printed.....: 29-SEP-06 09:41
Client Name.....: North Dakota State Water Commission

DCL Sample Name...: 06E04373
DCL Report Group..: 06E-0590-02

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
4-Chlorophenyl phenyl ether	26-SEP-06 19:39	0.392	ND			1	5
Fluorene	26-SEP-06 19:39	0.363	ND			1	5
4-Nitroaniline	26-SEP-06 19:39	0.263	ND			1	5
4,6-Dinitro-2-methylphenol	26-SEP-06 19:39	2.28	ND			1	20
N-nitrosodiphenylamine	26-SEP-06 19:39	0.645	ND			1	5
4-Bromophenyl Phenyl Ether	26-SEP-06 19:39	0.394	ND			1	5
Hexachlorobenzene	26-SEP-06 19:39	0.255	ND			1	5
Pentachlorophenol	26-SEP-06 19:39	1.66	ND			1	20
Phenanthrene	26-SEP-06 19:39	0.416	ND			1	5
Anthracene	26-SEP-06 19:39	0.331	ND			1	5
Carbazole	26-SEP-06 19:39	0.327	ND			1	5
Di-n-butylphthalate	26-SEP-06 19:39	0.807	ND			1	5
Fluoranthene	26-SEP-06 19:39	0.515	ND			1	5
Pyrene	26-SEP-06 19:39	0.441	ND			1	5
Butylbenzylphthalate	26-SEP-06 19:39	4.01	ND			1	5
3,3'-Dichlorobenzidine	26-SEP-06 19:39	1.55	ND			1	5
Benzo(a)anthracene	26-SEP-06 19:39	0.335	ND			1	5
Chrysene	26-SEP-06 19:39	0.184	ND			1	5
Bis(2-ethylhexyl)phthalate	26-SEP-06 19:39	1.53	ND			1	5
Di-n-octylphthalate	26-SEP-06 19:39	1.32	ND			1	5
Benzo(b)fluoranthene	26-SEP-06 19:39	0.265	ND			1	5
Benzo(k)fluoranthene	26-SEP-06 19:39	0.272	ND			1	5
Benzo(a)pyrene	26-SEP-06 19:39	0.221	ND			1	5
Indeno(1,2,3-c,d)pyrene	26-SEP-06 19:39	0.412	ND			1	5
Dibenz(a,h)Anthracene	26-SEP-06 19:39	0.407	ND			1	5
Benzo(g,h,i)perylene	26-SEP-06 19:39	0.446	ND			1	5

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual.	Dilution
Polycyclic hydrocarbon(19.01)	26-SEP-06 19:39	11.		JB	1

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0B2

Date Printed.....: 29-SEP-06 09:41

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068M00M
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 3510
Aliquot Weight/Volume: 1000 mL
Net Weight/Volume....: Not Required

Client Sample Name: **FIELD BLANK**
DCL Sample Name...: **06E04359**
DCL Report Group..: **06E-0590-02**

Matrix.....: WATER
Date Sampled.....: 13-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Analysis Group: G068M00M
Analysis Method...: 8270C
Instrument Type...: GC/MS SV
Instrument ID.....: 5973-Y
Column Type.....: DB5 30M x .32mm
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Pyridine	26-SEP-06 20:11	0.381	ND			1	5
Phenol	26-SEP-06 20:11	0.266	ND			1	5
Bis(2-chloroethyl)ether	26-SEP-06 20:11	0.339	ND			1	5
2-Chlorophenol	26-SEP-06 20:11	0.429	ND			1	5
1,3-Dichlorobenzene	26-SEP-06 20:11	0.290	ND			1	5
1,4-Dichlorobenzene	26-SEP-06 20:11	0.379	ND			1	5
Benzyl Alcohol	26-SEP-06 20:11	0.402	ND			1	5
1,2-Dichlorobenzene	26-SEP-06 20:11	0.241	ND			1	5
2-Methylphenol	26-SEP-06 20:11	0.216	ND			1	5
Bis(2-chloroisopropyl)ether	26-SEP-06 20:11	0.356	ND			1	5
4-Methylphenol	26-SEP-06 20:11	0.114	ND			1	5
N-Nitrosodi-n-propyl amine	26-SEP-06 20:11	0.971	ND			1	5
Hexachloroethane	26-SEP-06 20:11	0.272	ND			1	5
Nitrobenzene	26-SEP-06 20:11	0.392	ND			1	5
Isophorone	26-SEP-06 20:11	0.415	ND			1	5
2-Nitrophenol	26-SEP-06 20:11	0.457	ND			1	5
2,4-Dimethylphenol	26-SEP-06 20:11	0.992	ND			1	5
Benzoic acid	26-SEP-06 20:11	3.19	ND			1	20
bis(2-Chloroethoxy)methane	26-SEP-06 20:11	0.427	ND			1	5
2,4-Dichlorophenol	26-SEP-06 20:11	0.361	ND			1	5
1,2,4-Trichlorobenzene	26-SEP-06 20:11	0.337	ND			1	5
Naphthalene	26-SEP-06 20:11	0.660	ND			1	5
4-Chloroaniline	26-SEP-06 20:11	0.249	ND			1	5
Hexachlorobutadiene	26-SEP-06 20:11	0.353	ND			1	5
4-Chloro-3-methylphenol	26-SEP-06 20:11	0.337	ND			1	5
2-Methylnaphthalene	26-SEP-06 20:11	0.505	ND			1	5
Hexachlorocyclopentadiene	26-SEP-06 20:11	0.266	ND			1	5
2,4,6-Trichlorophenol	26-SEP-06 20:11	0.299	ND			1	5
2,4,5-Trichlorophenol	26-SEP-06 20:11	0.225	ND			1	5
2-Chloronaphthalene	26-SEP-06 20:11	0.367	ND			1	5
2-Nitroaniline	26-SEP-06 20:11	0.361	ND			1	5
Dimethylphthalate	26-SEP-06 20:11	0.346	ND			1	5
2,6-Dinitrotoluene	26-SEP-06 20:11	0.552	ND			1	5
Acenaphthylene	26-SEP-06 20:11	0.432	ND			1	5
3-Nitroaniline	26-SEP-06 20:11	0.429	ND			1	5
Acenaphthene	26-SEP-06 20:11	0.494	ND			1	5
2,4-Dinitrophenol	26-SEP-06 20:11	2.57	ND			1	20
4-Nitrophenol	26-SEP-06 20:11	2.00	ND			1	20
Dibenzofuran	26-SEP-06 20:11	0.577	ND			1	5
2,4-Dinitrotoluene	26-SEP-06 20:11	0.328	ND			1	5
Diethylphthalate	26-SEP-06 20:11	0.435	ND			1	5

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0B2

Date Printed.....: 29-SEP-06 09:41
Client Name.....: North Dakota State Water Commission

DCL Sample Name...: 06E04359
DCL Report Group..: 06E-0590-02

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
4-Chlorophenyl phenyl ether	26-SEP-06 20:11	0.392	ND			1	5
Fluorene	26-SEP-06 20:11	0.363	ND			1	5
4-Nitroaniline	26-SEP-06 20:11	0.263	ND			1	5
4,6-Dinitro-2-methylphenol	26-SEP-06 20:11	2.28	ND			1	20
N-nitrosodiphenylamine	26-SEP-06 20:11	0.645	ND			1	5
4-Bromophenyl Phenyl Ether	26-SEP-06 20:11	0.394	ND			1	5
Hexachlorobenzene	26-SEP-06 20:11	0.255	ND			1	5
Pentachlorophenol	26-SEP-06 20:11	1.66	ND			1	20
Phenanthrene	26-SEP-06 20:11	0.416	ND			1	5
Anthracene	26-SEP-06 20:11	0.331	ND			1	5
Carbazole	26-SEP-06 20:11	0.327	ND			1	5
Di-n-butylphthalate	26-SEP-06 20:11	0.807	ND			1	5
Fluoranthene	26-SEP-06 20:11	0.515	ND			1	5
Pyrene	26-SEP-06 20:11	0.441	ND			1	5
Butylbenzylphthalate	26-SEP-06 20:11	4.01	ND			1	5
3,3'-Dichlorobenzidine	26-SEP-06 20:11	1.55	ND			1	5
Benzo(a)anthracene	26-SEP-06 20:11	0.335	ND			1	5
Chrysene	26-SEP-06 20:11	0.184	ND			1	5
Bis(2-ethylhexyl)phthalate	26-SEP-06 20:11	1.53	ND			1	5
Di-n-octylphthalate	26-SEP-06 20:11	1.32	ND			1	5
Benzo(b)fluoranthene	26-SEP-06 20:11	0.265	ND			1	5
Benzo(k)fluoranthene	26-SEP-06 20:11	0.272	ND			1	5
Benzo(a)pyrene	26-SEP-06 20:11	0.221	ND			1	5
Indeno(1,2,3-c,d)pyrene	26-SEP-06 20:11	0.412	ND			1	5
Dibenz(a,h)Anthracene	26-SEP-06 20:11	0.407	ND			1	5
Benzo(g,h,i)perylene	26-SEP-06 20:11	0.446	ND			1	5

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual.	Dilution
Polycyclic hydrocarbon(19.02)	26-SEP-06 20:11	10.		JB	1

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0B3

Date Printed.....: 29-SEP-06 09:41

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

Client Sample Name: **13086**
DCL Sample Name...: **06E04360**
DCL Report Group..: **06E-0590-02**

Matrix.....: WATER
Date Sampled.....: 11-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Preparation Group: G068M00M
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 3510
Aliquot Weight/Volume: 1000 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G068M00M
Analysis Method...: 8270C
Instrument Type...: GC/MS SV
Instrument ID.....: 5973-Y
Column Type.....: DB5 30M x .32mm
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Pyridine	26-SEP-06 20:44	0.381	ND			1	5
Phenol	26-SEP-06 20:44	0.266	ND			1	5
Bis(2-chloroethyl)ether	26-SEP-06 20:44	0.339	ND			1	5
2-Chlorophenol	26-SEP-06 20:44	0.429	ND			1	5
1,3-Dichlorobenzene	26-SEP-06 20:44	0.290	ND			1	5
1,4-Dichlorobenzene	26-SEP-06 20:44	0.379	ND			1	5
Benzyl Alcohol	26-SEP-06 20:44	0.402	ND			1	5
1,2-Dichlorobenzene	26-SEP-06 20:44	0.241	ND			1	5
2-Methylphenol	26-SEP-06 20:44	0.216	ND			1	5
Bis(2-chloroisopropyl)ether	26-SEP-06 20:44	0.356	ND			1	5
4-Methylphenol	26-SEP-06 20:44	0.114	ND			1	5
N-Nitrosodi-n-propyl amine	26-SEP-06 20:44	0.971	ND			1	5
Hexachloroethane	26-SEP-06 20:44	0.272	ND			1	5
Nitrobenzene	26-SEP-06 20:44	0.392	ND			1	5
Isophorone	26-SEP-06 20:44	0.415	ND			1	5
2-Nitrophenol	26-SEP-06 20:44	0.457	ND			1	5
2,4-Dimethylphenol	26-SEP-06 20:44	0.992	ND			1	5
Benzoic acid	26-SEP-06 20:44	3.19	ND			1	20
bis(2-Chloroethoxy)methane	26-SEP-06 20:44	0.427	ND			1	5
2,4-Dichlorophenol	26-SEP-06 20:44	0.361	ND			1	5
1,2,4-Trichlorobenzene	26-SEP-06 20:44	0.337	ND			1	5
Naphthalene	26-SEP-06 20:44	0.660	ND			1	5
4-Chloroaniline	26-SEP-06 20:44	0.249	ND			1	5
Hexachlorobutadiene	26-SEP-06 20:44	0.353	ND			1	5
4-Chloro-3-methylphenol	26-SEP-06 20:44	0.337	ND			1	5
2-Methylnaphthalene	26-SEP-06 20:44	0.505	ND			1	5
Hexachlorocyclopentadiene	26-SEP-06 20:44	0.266	ND			1	5
2,4,6-Trichlorophenol	26-SEP-06 20:44	0.299	ND			1	5
2,4,5-Trichlorophenol	26-SEP-06 20:44	0.225	ND			1	5
2-Chloronaphthalene	26-SEP-06 20:44	0.367	ND			1	5
2-Nitroaniline	26-SEP-06 20:44	0.361	ND			1	5
Dimethylphthalate	26-SEP-06 20:44	0.346	ND			1	5
2,6-Dinitrotoluene	26-SEP-06 20:44	0.552	ND			1	5
Acenaphthylene	26-SEP-06 20:44	0.432	ND			1	5
3-Nitroaniline	26-SEP-06 20:44	0.429	ND			1	5
Acenaphthene	26-SEP-06 20:44	0.494	ND			1	5
2,4-Dinitrophenol	26-SEP-06 20:44	2.57	ND			1	20
4-Nitrophenol	26-SEP-06 20:44	2.00	ND			1	20
Dibenzofuran	26-SEP-06 20:44	0.577	ND			1	5
2,4-Dinitrotoluene	26-SEP-06 20:44	0.328	ND			1	5
Diethylphthalate	26-SEP-06 20:44	0.435	ND			1	5

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0B3

Date Printed.....: 29-SEP-06 09:41
Client Name.....: North Dakota State Water Commission

DCL Sample Name...: 06E04360
DCL Report Group..: 06E-0590-02

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
4-Chlorophenyl phenyl ether	26-SEP-06 20:44	0.392	ND			1	5
Fluorene	26-SEP-06 20:44	0.363	ND			1	5
4-Nitroaniline	26-SEP-06 20:44	0.263	ND			1	5
4,6-Dinitro-2-methylphenol	26-SEP-06 20:44	2.28	ND			1	20
N-nitrosodiphenylamine	26-SEP-06 20:44	0.645	ND			1	5
4-Bromophenyl Phenyl Ether	26-SEP-06 20:44	0.394	ND			1	5
Hexachlorobenzene	26-SEP-06 20:44	0.255	ND			1	5
Pentachlorophenol	26-SEP-06 20:44	1.66	ND			1	20
Phenanthrene	26-SEP-06 20:44	0.416	ND			1	5
Anthracene	26-SEP-06 20:44	0.331	ND			1	5
Carbazole	26-SEP-06 20:44	0.327	ND			1	5
Di-n-butylphthalate	26-SEP-06 20:44	0.807	ND			1	5
Fluoranthene	26-SEP-06 20:44	0.515	ND			1	5
Pyrene	26-SEP-06 20:44	0.441	ND			1	5
Butylbenzylphthalate	26-SEP-06 20:44	4.01	ND			1	5
3,3'-Dichlorobenzidine	26-SEP-06 20:44	1.55	ND			1	5
Benzo(a)anthracene	26-SEP-06 20:44	0.335	ND			1	5
Chrysene	26-SEP-06 20:44	0.184	ND			1	5
Bis(2-ethylhexyl)phthalate	26-SEP-06 20:44	1.53	ND			1	5
Di-n-octylphthalate	26-SEP-06 20:44	1.32	ND			1	5
Benzo(b)fluoranthene	26-SEP-06 20:44	0.265	ND			1	5
Benzo(k)fluoranthene	26-SEP-06 20:44	0.272	ND			1	5
Benzo(a)pyrene	26-SEP-06 20:44	0.221	ND			1	5
Indeno(1,2,3-c,d)pyrene	26-SEP-06 20:44	0.412	ND			1	5
Dibenz(a,h)Anthracene	26-SEP-06 20:44	0.407	ND			1	5
Benzo(g,h,i)perylene	26-SEP-06 20:44	0.446	ND			1	5

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual.	Dilution
Polycyclic hydrocarbon(19.02)	26-SEP-06 20:44	15.		JB	1
Polycyclic hydrocarbon(24.45)	26-SEP-06 20:44	6.0		J	1

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0B4

Date Printed.....: 29-SEP-06 09:41

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068M00M
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 3510
Aliquot Weight/Volume: 1000 mL
Net Weight/Volume....: Not Required

Client Sample Name: **13101**
DCL Sample Name...: **06E04362**
DCL Report Group..: **06E-0590-02**

Matrix.....: WATER
Date Sampled.....: 11-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: ☒ As Received ☐ Dried

DCL Analysis Group: G068M00M
Analysis Method...: 8270C
Instrument Type...: GC/MS SV
Instrument ID.....: 5973-Y
Column Type.....: DB5 30M x .32mm
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Pyridine	26-SEP-06 21:16	0.381	ND			1	5
Phenol	26-SEP-06 21:16	0.266	ND			1	5
Bis(2-chloroethyl)ether	26-SEP-06 21:16	0.339	ND			1	5
2-Chlorophenol	26-SEP-06 21:16	0.429	ND			1	5
1,3-Dichlorobenzene	26-SEP-06 21:16	0.290	ND			1	5
1,4-Dichlorobenzene	26-SEP-06 21:16	0.379	ND			1	5
Benzyl Alcohol	26-SEP-06 21:16	0.402	ND			1	5
1,2-Dichlorobenzene	26-SEP-06 21:16	0.241	ND			1	5
2-Methylphenol	26-SEP-06 21:16	0.216	ND			1	5
Bis(2-chloroisopropyl)ether	26-SEP-06 21:16	0.356	ND			1	5
4-Methylphenol	26-SEP-06 21:16	0.114	ND			1	5
N-Nitrosodi-n-propyl amine	26-SEP-06 21:16	0.971	ND			1	5
Hexachloroethane	26-SEP-06 21:16	0.272	ND			1	5
Nitrobenzene	26-SEP-06 21:16	0.392	ND			1	5
Isophorone	26-SEP-06 21:16	0.415	ND			1	5
2-Nitrophenol	26-SEP-06 21:16	0.457	ND			1	5
2,4-Dimethylphenol	26-SEP-06 21:16	0.992	ND			1	5
Benzoic acid	26-SEP-06 21:16	3.19	ND			1	20
bis(2-Chloroethoxy)methane	26-SEP-06 21:16	0.427	ND			1	5
2,4-Dichlorophenol	26-SEP-06 21:16	0.361	ND			1	5
1,2,4-Trichlorobenzene	26-SEP-06 21:16	0.337	ND			1	5
Naphthalene	26-SEP-06 21:16	0.660	ND			1	5
4-Chloroaniline	26-SEP-06 21:16	0.249	ND			1	5
Hexachlorobutadiene	26-SEP-06 21:16	0.353	ND			1	5
4-Chloro-3-methylphenol	26-SEP-06 21:16	0.337	ND			1	5
2-Methylnaphthalene	26-SEP-06 21:16	0.505	ND			1	5
Hexachlorocyclopentadiene	26-SEP-06 21:16	0.266	ND			1	5
2,4,6-Trichlorophenol	26-SEP-06 21:16	0.299	ND			1	5
2,4,5-Trichlorophenol	26-SEP-06 21:16	0.225	ND			1	5
2-Chloronaphthalene	26-SEP-06 21:16	0.367	ND			1	5
2-Nitroaniline	26-SEP-06 21:16	0.361	ND			1	5
Dimethylphthalate	26-SEP-06 21:16	0.346	ND			1	5
2,6-Dinitrotoluene	26-SEP-06 21:16	0.552	ND			1	5
Acenaphthylene	26-SEP-06 21:16	0.432	ND			1	5
3-Nitroaniline	26-SEP-06 21:16	0.429	ND			1	5
Acenaphthene	26-SEP-06 21:16	0.494	ND			1	5
2,4-Dinitrophenol	26-SEP-06 21:16	2.57	ND			1	20
4-Nitrophenol	26-SEP-06 21:16	2.00	ND			1	20
Dibenzofuran	26-SEP-06 21:16	0.577	ND			1	5
2,4-Dinitrotoluene	26-SEP-06 21:16	0.328	ND			1	5
Diethylphthalate	26-SEP-06 21:16	0.435	ND			1	5

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0B4

Date Printed.....: 29-SEP-06 09:41
Client Name.....: North Dakota State Water Commission

DCL Sample Name...: 06E04362
DCL Report Group..: 06E-0590-02

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
4-Chlorophenyl phenyl ether	26-SEP-06 21:16	0.392	ND			1	5
Fluorene	26-SEP-06 21:16	0.363	ND			1	5
4-Nitroaniline	26-SEP-06 21:16	0.263	ND			1	5
4,6-Dinitro-2-methylphenol	26-SEP-06 21:16	2.28	ND			1	20
N-nitrosodiphenylamine	26-SEP-06 21:16	0.645	ND			1	5
4-Bromophenyl Phenyl Ether	26-SEP-06 21:16	0.394	ND			1	5
Hexachlorobenzene	26-SEP-06 21:16	0.255	ND			1	5
Pentachlorophenol	26-SEP-06 21:16	1.66	ND			1	20
Phenanthrene	26-SEP-06 21:16	0.416	ND			1	5
Anthracene	26-SEP-06 21:16	0.331	ND			1	5
Carbazole	26-SEP-06 21:16	0.327	ND			1	5
Di-n-butylphthalate	26-SEP-06 21:16	0.807	ND			1	5
Fluoranthene	26-SEP-06 21:16	0.515	ND			1	5
Pyrene	26-SEP-06 21:16	0.441	ND			1	5
Butylbenzylphthalate	26-SEP-06 21:16	4.01	ND			1	5
3,3'-Dichlorobenzidine	26-SEP-06 21:16	1.55	ND			1	5
Benzo(a)anthracene	26-SEP-06 21:16	0.335	ND			1	5
Chrysene	26-SEP-06 21:16	0.184	ND			1	5
Bis(2-ethylhexyl)phthalate	26-SEP-06 21:16	1.53	3.0		J	1	5
Di-n-octylphthalate	26-SEP-06 21:16	1.32	ND			1	5
Benzo(b)fluoranthene	26-SEP-06 21:16	0.265	ND			1	5
Benzo(k)fluoranthene	26-SEP-06 21:16	0.272	ND			1	5
Benzo(a)pyrene	26-SEP-06 21:16	0.221	ND			1	5
Indeno(1,2,3-c,d)pyrene	26-SEP-06 21:16	0.412	ND			1	5
Dibenz(a,h)Anthracene	26-SEP-06 21:16	0.407	ND			1	5
Benzo(g,h,i)perylene	26-SEP-06 21:16	0.446	ND			1	5

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual.	Dilution
Octanoic Acid(5.73)	26-SEP-06 21:16	28.		J	1
Nonanoic Acid(6.53)	26-SEP-06 21:16	6.6		J	1
n-Decanoic acid(7.43)	26-SEP-06 21:16	22.		J	1
Dodecanoic acid(9.28)	26-SEP-06 21:16	140		J	1
Tetradecanoic acid(10.96)	26-SEP-06 21:16	21.		J	1
Polycyclic hydrocarbon(19.02)	26-SEP-06 21:16	14.		JB	1
Unknown nitro-aromatic(20.54)	26-SEP-06 21:16	5.3		J	1
Polycyclic hydrocarbon(24.46)	26-SEP-06 21:16	5.6		J	1

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0B5

Date Printed.....: 29-SEP-06 09:41

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068M00M
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 3510
Aliquot Weight/Volume: 1000 mL
Net Weight/Volume....: Not Required

Client Sample Name: 13103
DCL Sample Name...: 06E04363
DCL Report Group..: 06E-0590-02

Matrix.....: WATER
Date Sampled.....: 11-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: ☒ As Received ☐ Dried

DCL Analysis Group: G068M00M
Analysis Method...: 8270C
Instrument Type...: GC/MS SV
Instrument ID.....: 5973-Y
Column Type.....: DB5 30M x .32mm
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Pyridine	26-SEP-06 21:49	0.381	ND			1	5
Phenol	26-SEP-06 21:49	0.266	ND			1	5
Bis(2-chloroethyl)ether	26-SEP-06 21:49	0.339	ND			1	5
2-Chlorophenol	26-SEP-06 21:49	0.429	ND			1	5
1,3-Dichlorobenzene	26-SEP-06 21:49	0.290	ND			1	5
1,4-Dichlorobenzene	26-SEP-06 21:49	0.379	ND			1	5
Benzyl Alcohol	26-SEP-06 21:49	0.402	ND			1	5
1,2-Dichlorobenzene	26-SEP-06 21:49	0.241	ND			1	5
2-Methylphenol	26-SEP-06 21:49	0.216	ND			1	5
Bis(2-chloroisopropyl)ether	26-SEP-06 21:49	0.356	ND			1	5
4-Methylphenol	26-SEP-06 21:49	0.114	ND			1	5
N-Nitrosodi-n-propyl amine	26-SEP-06 21:49	0.971	ND			1	5
Hexachloroethane	26-SEP-06 21:49	0.272	ND			1	5
Nitrobenzene	26-SEP-06 21:49	0.392	ND			1	5
Isophorone	26-SEP-06 21:49	0.415	ND			1	5
2-Nitrophenol	26-SEP-06 21:49	0.457	ND			1	5
2,4-Dimethylphenol	26-SEP-06 21:49	0.992	ND			1	5
Benzoic acid	26-SEP-06 21:49	3.19	ND			1	20
bis(2-Chloroethoxy)methane	26-SEP-06 21:49	0.427	ND			1	5
2,4-Dichlorophenol	26-SEP-06 21:49	0.361	ND			1	5
1,2,4-Trichlorobenzene	26-SEP-06 21:49	0.337	ND			1	5
Naphthalene	26-SEP-06 21:49	0.660	ND			1	5
4-Chloroaniline	26-SEP-06 21:49	0.249	ND			1	5
Hexachlorobutadiene	26-SEP-06 21:49	0.353	ND			1	5
4-Chloro-3-methylphenol	26-SEP-06 21:49	0.337	ND			1	5
2-Methylnaphthalene	26-SEP-06 21:49	0.505	ND			1	5
Hexachlorocyclopentadiene	26-SEP-06 21:49	0.266	ND			1	5
2,4,6-Trichlorophenol	26-SEP-06 21:49	0.299	ND			1	5
2,4,5-Trichlorophenol	26-SEP-06 21:49	0.225	ND			1	5
2-Chloronaphthalene	26-SEP-06 21:49	0.367	ND			1	5
2-Nitroaniline	26-SEP-06 21:49	0.361	ND			1	5
Dimethylphthalate	26-SEP-06 21:49	0.346	0.69		J	1	5
2,6-Dinitrotoluene	26-SEP-06 21:49	0.552	ND			1	5
Acenaphthylene	26-SEP-06 21:49	0.432	ND			1	5
3-Nitroaniline	26-SEP-06 21:49	0.429	ND			1	5
Acenaphthene	26-SEP-06 21:49	0.494	ND			1	5
2,4-Dinitrophenol	26-SEP-06 21:49	2.57	ND			1	20
4-Nitrophenol	26-SEP-06 21:49	2.00	ND			1	20
Dibenzofuran	26-SEP-06 21:49	0.577	ND			1	5
2,4-Dinitrotoluene	26-SEP-06 21:49	0.328	ND			1	5
Diethylphthalate	26-SEP-06 21:49	0.435	0.90		J	1	5

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0B5

Date Printed.....: 29-SEP-06 09:41
Client Name.....: North Dakota State Water Commission

DCL Sample Name...: 06E04363
DCL Report Group..: 06E-0590-02

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
4-Chlorophenyl phenyl ether	26-SEP-06 21:49	0.392	ND			1	5
Fluorene	26-SEP-06 21:49	0.363	ND			1	5
4-Nitroaniline	26-SEP-06 21:49	0.263	ND			1	5
4,6-Dinitro-2-methylphenol	26-SEP-06 21:49	2.28	ND			1	20
N-nitrosodiphenylamine	26-SEP-06 21:49	0.645	ND			1	5
4-Bromophenyl Phenyl Ether	26-SEP-06 21:49	0.394	ND			1	5
Hexachlorobenzene	26-SEP-06 21:49	0.255	ND			1	5
Pentachlorophenol	26-SEP-06 21:49	1.66	ND			1	20
Phenanthrene	26-SEP-06 21:49	0.416	ND			1	5
Anthracene	26-SEP-06 21:49	0.331	ND			1	5
Carbazole	26-SEP-06 21:49	0.327	ND			1	5
Di-n-butylphthalate	26-SEP-06 21:49	0.807	ND			1	5
Fluoranthene	26-SEP-06 21:49	0.515	ND			1	5
Pyrene	26-SEP-06 21:49	0.441	ND			1	5
Butylbenzylphthalate	26-SEP-06 21:49	4.01	ND			1	5
3,3'-Dichlorobenzidine	26-SEP-06 21:49	1.55	ND			1	5
Benzo(a)anthracene	26-SEP-06 21:49	0.335	ND			1	5
Chrysene	26-SEP-06 21:49	0.184	ND			1	5
Bis(2-ethylhexyl)phthalate	26-SEP-06 21:49	1.53	7.2			1	5
Di-n-octylphthalate	26-SEP-06 21:49	1.32	ND			1	5
Benzo(b)fluoranthene	26-SEP-06 21:49	0.265	ND			1	5
Benzo(k)fluoranthene	26-SEP-06 21:49	0.272	ND			1	5
Benzo(a)pyrene	26-SEP-06 21:49	0.221	ND			1	5
Indeno(1,2,3-c,d)pyrene	26-SEP-06 21:49	0.412	ND			1	5
Dibenz(a,h)Anthracene	26-SEP-06 21:49	0.407	ND			1	5
Benzo(g,h,i)perylene	26-SEP-06 21:49	0.446	ND			1	5

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual.	Dilution
Column bleed product(5.36)	26-SEP-06 21:49	4.2		J	1
Octanoic Acid(5.75)	26-SEP-06 21:49	37.		J	1
n-Decanoic acid(7.46)	26-SEP-06 21:49	37.		J	1
Dodecanoic acid(9.31)	26-SEP-06 21:49	160		J	1
Diethyltoluamide(9.48)	26-SEP-06 21:49	10.		J	1
Tetradecanoic acid(10.95)	26-SEP-06 21:49	10.		J	1
Unknown Oxyhydrocarbon(13.79)	26-SEP-06 21:49	4.1		J	1
Unknown nitro-aromatic(17.00)	26-SEP-06 21:49	24.		J	1
Polycyclic hydrocarbon(19.02)	26-SEP-06 21:49	4.1		JB	1
Unknown nitro-aromatic(20.50)	26-SEP-06 21:49	33.		J	1
Glycerol tricaprylate(22.67)	26-SEP-06 21:49	6.3		J	1
Unknown Oxyhydrocarbon(23.56)	26-SEP-06 21:49	9.8		J	1

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0B6

Date Printed.....: 29-SEP-06 09:41

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068M00M
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 3510
Aliquot Weight/Volume: 1000 mL
Net Weight/Volume....: Not Required

Client Sample Name: **13104**
DCL Sample Name...: **06E04364**
DCL Report Group..: **06E-0590-02**

Matrix.....: WATER
Date Sampled.....: 11-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Analysis Group: G068M00M
Analysis Method...: 8270C
Instrument Type...: GC/MS SV
Instrument ID.....: 5973-Y
Column Type.....: DB5 30M x .32mm
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Pyridine	26-SEP-06 22:21	0.381	ND			1	5
Phenol	26-SEP-06 22:21	0.266	ND			1	5
Bis(2-chloroethyl)ether	26-SEP-06 22:21	0.339	ND			1	5
2-Chlorophenol	26-SEP-06 22:21	0.429	ND			1	5
1,3-Dichlorobenzene	26-SEP-06 22:21	0.290	ND			1	5
1,4-Dichlorobenzene	26-SEP-06 22:21	0.379	ND			1	5
Benzyl Alcohol	26-SEP-06 22:21	0.402	ND			1	5
1,2-Dichlorobenzene	26-SEP-06 22:21	0.241	ND			1	5
2-Methylphenol	26-SEP-06 22:21	0.216	ND			1	5
Bis(2-chloroisopropyl)ether	26-SEP-06 22:21	0.356	ND			1	5
4-Methylphenol	26-SEP-06 22:21	0.114	ND			1	5
N-Nitrosodi-n-propyl amine	26-SEP-06 22:21	0.971	ND			1	5
Hexachloroethane	26-SEP-06 22:21	0.272	ND			1	5
Nitrobenzene	26-SEP-06 22:21	0.392	ND			1	5
Isophorone	26-SEP-06 22:21	0.415	ND			1	5
2-Nitrophenol	26-SEP-06 22:21	0.457	ND			1	5
2,4-Dimethylphenol	26-SEP-06 22:21	0.992	ND			1	5
Benzoic acid	26-SEP-06 22:21	3.19	ND			1	20
bis(2-Chloroethoxy)methane	26-SEP-06 22:21	0.427	ND			1	5
2,4-Dichlorophenol	26-SEP-06 22:21	0.361	ND			1	5
1,2,4-Trichlorobenzene	26-SEP-06 22:21	0.337	ND			1	5
Naphthalene	26-SEP-06 22:21	0.660	ND			1	5
4-Chloroaniline	26-SEP-06 22:21	0.249	ND			1	5
Hexachlorobutadiene	26-SEP-06 22:21	0.353	ND			1	5
4-Chloro-3-methylphenol	26-SEP-06 22:21	0.337	ND			1	5
2-Methylnaphthalene	26-SEP-06 22:21	0.505	ND			1	5
Hexachlorocyclopentadiene	26-SEP-06 22:21	0.266	ND			1	5
2,4,6-Trichlorophenol	26-SEP-06 22:21	0.299	ND			1	5
2,4,5-Trichlorophenol	26-SEP-06 22:21	0.225	ND			1	5
2-Chloronaphthalene	26-SEP-06 22:21	0.367	ND			1	5
2-Nitroaniline	26-SEP-06 22:21	0.361	ND			1	5
Dimethylphthalate	26-SEP-06 22:21	0.346	ND			1	5
2,6-Dinitrotoluene	26-SEP-06 22:21	0.552	ND			1	5
Acenaphthylene	26-SEP-06 22:21	0.432	ND			1	5
3-Nitroaniline	26-SEP-06 22:21	0.429	ND			1	5
Acenaphthene	26-SEP-06 22:21	0.494	ND			1	5
2,4-Dinitrophenol	26-SEP-06 22:21	2.57	ND			1	20
4-Nitrophenol	26-SEP-06 22:21	2.00	ND			1	20
Dibenzofuran	26-SEP-06 22:21	0.577	ND			1	5
2,4-Dinitrotoluene	26-SEP-06 22:21	0.328	ND			1	5
Diethylphthalate	26-SEP-06 22:21	0.435	ND			1	5

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0B6

Date Printed.....: 29-SEP-06 09:41
Client Name.....: North Dakota State Water Commission

DCL Sample Name...: 06E04364
DCL Report Group..: 06E-0590-02

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
4-Chlorophenyl phenyl ether	26-SEP-06 22:21	0.392	ND			1	5
Fluorene	26-SEP-06 22:21	0.363	ND			1	5
4-Nitroaniline	26-SEP-06 22:21	0.263	ND			1	5
4,6-Dinitro-2-methylphenol	26-SEP-06 22:21	2.28	ND			1	20
N-nitrosodiphenylamine	26-SEP-06 22:21	0.645	ND			1	5
4-Bromophenyl Phenyl Ether	26-SEP-06 22:21	0.394	ND			1	5
Hexachlorobenzene	26-SEP-06 22:21	0.255	ND			1	5
Pentachlorophenol	26-SEP-06 22:21	1.66	ND			1	20
Phenanthrene	26-SEP-06 22:21	0.416	ND			1	5
Anthracene	26-SEP-06 22:21	0.331	ND			1	5
Carbazole	26-SEP-06 22:21	0.327	ND			1	5
Di-n-butylphthalate	26-SEP-06 22:21	0.807	ND			1	5
Fluoranthene	26-SEP-06 22:21	0.515	ND			1	5
Pyrene	26-SEP-06 22:21	0.441	ND			1	5
Butylbenzylphthalate	26-SEP-06 22:21	4.01	ND			1	5
3,3'-Dichlorobenzidine	26-SEP-06 22:21	1.55	ND			1	5
Benzo(a)anthracene	26-SEP-06 22:21	0.335	ND			1	5
Chrysene	26-SEP-06 22:21	0.184	ND			1	5
Bis(2-ethylhexyl)phthalate	26-SEP-06 22:21	1.53	ND			1	5
Di-n-octylphthalate	26-SEP-06 22:21	1.32	ND			1	5
Benzo(b)fluoranthene	26-SEP-06 22:21	0.265	ND			1	5
Benzo(k)fluoranthene	26-SEP-06 22:21	0.272	ND			1	5
Benzo(a)pyrene	26-SEP-06 22:21	0.221	ND			1	5
Indeno(1,2,3-c,d)pyrene	26-SEP-06 22:21	0.412	ND			1	5
Dibenz(a,h)Anthracene	26-SEP-06 22:21	0.407	ND			1	5
Benzo(g,h,i)perylene	26-SEP-06 22:21	0.446	ND			1	5

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual.	Dilution
Unknown nitro-aromatic(16.20)	26-SEP-06 22:21	13.		J	1
Unknown nitro-aromatic(16.43)	26-SEP-06 22:21	7.7		J	1
Polycyclic hydrocarbon(19.02)	26-SEP-06 22:21	12.		JB	1
Unknown nitro-aromatic(22.12)	26-SEP-06 22:21	160		J	1
Polycyclic hydrocarbon(24.46)	26-SEP-06 22:21	4.9		J	1

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0B7

Date Printed.....: 29-SEP-06 09:41

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

Client Sample Name: **13087**
DCL Sample Name...: **06E04365**
DCL Report Group..: **06E-0590-02**

Matrix.....: WATER
Date-Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Preparation Group: G068M00M
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 3510
Aliquot Weight/Volume: 1000 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G068M00M
Analysis Method...: 8270C
Instrument Type...: GC/MS SV
Instrument ID.....: 5973-Y
Column Type.....: DB5 30M x .32mm
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Pyridine	26-SEP-06 22:54	0.381	ND			1	5
Phenol	26-SEP-06 22:54	0.266	ND			1	5
Bis(2-chloroethyl)ether	26-SEP-06 22:54	0.339	ND			1	5
2-Chlorophenol	26-SEP-06 22:54	0.429	ND			1	5
1,3-Dichlorobenzene	26-SEP-06 22:54	0.290	ND			1	5
1,4-Dichlorobenzene	26-SEP-06 22:54	0.379	ND			1	5
Benzyl Alcohol	26-SEP-06 22:54	0.402	ND			1	5
1,2-Dichlorobenzene	26-SEP-06 22:54	0.241	ND			1	5
2-Methylphenol	26-SEP-06 22:54	0.216	ND			1	5
Bis(2-chloroisopropyl)ether	26-SEP-06 22:54	0.356	ND			1	5
4-Methylphenol	26-SEP-06 22:54	0.114	ND			1	5
N-Nitrosodi-n-propyl amine	26-SEP-06 22:54	0.971	ND			1	5
Hexachloroethane	26-SEP-06 22:54	0.272	ND			1	5
Nitrobenzene	26-SEP-06 22:54	0.392	ND			1	5
Isophorone	26-SEP-06 22:54	0.415	ND			1	5
2-Nitrophenol	26-SEP-06 22:54	0.457	ND			1	5
2,4-Dimethylphenol	26-SEP-06 22:54	0.992	ND			1	5
Benzoic acid	26-SEP-06 22:54	3.19	ND			1	20
bis(2-Chloroethoxy)methane	26-SEP-06 22:54	0.427	ND			1	5
2,4-Dichlorophenol	26-SEP-06 22:54	0.361	ND			1	5
1,2,4-Trichlorobenzene	26-SEP-06 22:54	0.337	ND			1	5
Naphthalene	26-SEP-06 22:54	0.660	ND			1	5
4-Chloroaniline	26-SEP-06 22:54	0.249	ND			1	5
Hexachlorobutadiene	26-SEP-06 22:54	0.353	ND			1	5
4-Chloro-3-methylphenol	26-SEP-06 22:54	0.337	ND			1	5
2-Methylnaphthalene	26-SEP-06 22:54	0.505	ND			1	5
Hexachlorocyclopentadiene	26-SEP-06 22:54	0.266	ND			1	5
2,4,6-Trichlorophenol	26-SEP-06 22:54	0.299	ND			1	5
2,4,5-Trichlorophenol	26-SEP-06 22:54	0.225	ND			1	5
2-Chloronaphthalene	26-SEP-06 22:54	0.367	ND			1	5
2-Nitroaniline	26-SEP-06 22:54	0.361	ND			1	5
Dimethylphthalate	26-SEP-06 22:54	0.346	ND			1	5
2,6-Dinitrotoluene	26-SEP-06 22:54	0.552	ND			1	5
Acenaphthylene	26-SEP-06 22:54	0.432	ND			1	5
3-Nitroaniline	26-SEP-06 22:54	0.429	ND			1	5
Acenaphthene	26-SEP-06 22:54	0.494	ND			1	5
2,4-Dinitrophenol	26-SEP-06 22:54	2.57	ND			1	20
4-Nitrophenol	26-SEP-06 22:54	2.00	ND			1	20
Dibenzofuran	26-SEP-06 22:54	0.577	ND			1	5
2,4-Dinitrotoluene	26-SEP-06 22:54	0.328	ND			1	5
Diethylphthalate	26-SEP-06 22:54	0.435	ND			1	5

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0B7

Date Printed.....: 29-SEP-06 09:41
Client Name.....: North Dakota State Water Commission

DCL Sample Name...: 06E04365
DCL Report Group..: 06E-0590-02

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
4-Chlorophenyl phenyl ether	26-SEP-06 22:54	0.392	ND			1	5
Fluorene	26-SEP-06 22:54	0.363	ND			1	5
4-Nitroaniline	26-SEP-06 22:54	0.263	ND			1	5
4,6-Dinitro-2-methylphenol	26-SEP-06 22:54	2.28	ND			1	20
N-nitrosodiphenylamine	26-SEP-06 22:54	0.645	ND			1	5
4-Bromophenyl Phenyl Ether	26-SEP-06 22:54	0.394	ND			1	5
Hexachlorobenzene	26-SEP-06 22:54	0.255	ND			1	5
Pentachlorophenol	26-SEP-06 22:54	1.66	ND			1	20
Phenanthrene	26-SEP-06 22:54	0.416	ND			1	5
Anthracene	26-SEP-06 22:54	0.331	ND			1	5
Carbazole	26-SEP-06 22:54	0.327	ND			1	5
Di-n-butylphthalate	26-SEP-06 22:54	0.807	ND			1	5
Fluoranthene	26-SEP-06 22:54	0.515	ND			1	5
Pyrene	26-SEP-06 22:54	0.441	ND			1	5
Butylbenzylphthalate	26-SEP-06 22:54	4.01	ND			1	5
3,3'-Dichlorobenzidine	26-SEP-06 22:54	1.55	ND			1	5
Benzo(a)anthracene	26-SEP-06 22:54	0.335	ND			1	5
Chrysene	26-SEP-06 22:54	0.184	ND			1	5
Bis(2-ethylhexyl)phthalate	26-SEP-06 22:54	1.53	ND			1	5
Di-n-octylphthalate	26-SEP-06 22:54	1.32	ND			1	5
Benzo(b)fluoranthene	26-SEP-06 22:54	0.265	ND			1	5
Benzo(k)fluoranthene	26-SEP-06 22:54	0.272	ND			1	5
Benzo(a)pyrene	26-SEP-06 22:54	0.221	ND			1	5
Indeno(1,2,3-c,d)pyrene	26-SEP-06 22:54	0.412	ND			1	5
Dibenz(a,h)Anthracene	26-SEP-06 22:54	0.407	ND			1	5
Benzo(g,h,i)perylene	26-SEP-06 22:54	0.446	ND			1	5

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual.	Dilution
Octanoic Acid(5.70)	26-SEP-06 22:54	6.8		J	1
Dodecanoic acid(9.23)	26-SEP-06 22:54	21.		J	1
Unknown nitro-aromatic(17.00)	26-SEP-06 22:54	13.		J	1
Polycyclic hydrocarbon(19.02)	26-SEP-06 22:54	8.2		JB	1
Unknown nitro-aromatic(20.48)	26-SEP-06 22:54	72.		J	1
Unknown nitro-aromatic(20.78)	26-SEP-06 22:54	61.		J	1
Unknown nitro-aromatic(22.65)	26-SEP-06 22:54	5.3		J	1

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0BB

Date Printed.....: 29-SEP-06 09:41

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068M00M
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 3510
Aliquot Weight/Volume: 1000 mL
Net Weight/Volume....: Not Required

Client Sample Name: **13097|CAMP CROFTON**
DCL Sample Name...: **06E04366**
DCL Report Group..: **06E-0590-02**

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: ☒ As Received ☐ Dried

DCL Analysis Group: G068M00M
Analysis Method...: 8270C
Instrument Type...: GC/MS SV
Instrument ID.....: 5973-Y
Column Type.....: DB5 30M x .32mm
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Pyridine	27-SEP-06 00:31	0.381	ND			1	5
Phenol	27-SEP-06 00:31	0.266	ND			1	5
Bis(2-chloroethyl)ether	27-SEP-06 00:31	0.339	ND			1	5
2-Chlorophenol	27-SEP-06 00:31	0.429	ND			1	5
1,3-Dichlorobenzene	27-SEP-06 00:31	0.290	ND			1	5
1,4-Dichlorobenzene	27-SEP-06 00:31	0.379	ND			1	5
Benzyl Alcohol	27-SEP-06 00:31	0.402	ND			1	5
1,2-Dichlorobenzene	27-SEP-06 00:31	0.241	ND			1	5
2-Methylphenol	27-SEP-06 00:31	0.216	ND			1	5
Bis(2-chloroisopropyl)ether	27-SEP-06 00:31	0.356	ND			1	5
4-Methylphenol	27-SEP-06 00:31	0.114	ND			1	5
N-Nitrosodi-n-propyl amine	27-SEP-06 00:31	0.971	ND			1	5
Hexachloroethane	27-SEP-06 00:31	0.272	ND			1	5
Nitrobenzene	27-SEP-06 00:31	0.392	ND			1	5
Isophorone	27-SEP-06 00:31	0.415	ND			1	5
2-Nitrophenol	27-SEP-06 00:31	0.457	ND			1	5
2,4-Dimethylphenol	27-SEP-06 00:31	0.992	ND			1	5
Benzoic acid	27-SEP-06 00:31	3.19	ND			1	20
bis(2-Chloroethoxy)methane	27-SEP-06 00:31	0.427	ND			1	5
2,4-Dichlorophenol	27-SEP-06 00:31	0.361	ND			1	5
1,2,4-Trichlorobenzene	27-SEP-06 00:31	0.337	ND			1	5
Naphthalene	27-SEP-06 00:31	0.660	ND			1	5
4-Chloroaniline	27-SEP-06 00:31	0.249	ND			1	5
Hexachlorobutadiene	27-SEP-06 00:31	0.353	ND			1	5
4-Chloro-3-methylphenol	27-SEP-06 00:31	0.337	ND			1	5
2-Methylnaphthalene	27-SEP-06 00:31	0.505	ND			1	5
Hexachlorocyclopentadiene	27-SEP-06 00:31	0.266	ND			1	5
2,4,6-Trichlorophenol	27-SEP-06 00:31	0.299	ND			1	5
2,4,5-Trichlorophenol	27-SEP-06 00:31	0.225	ND			1	5
2-Chloronaphthalene	27-SEP-06 00:31	0.367	ND			1	5
2-Nitroaniline	27-SEP-06 00:31	0.361	ND			1	5
Dimethylphthalate	27-SEP-06 00:31	0.346	ND			1	5
2,6-Dinitrotoluene	27-SEP-06 00:31	0.552	ND			1	5
Acenaphthylene	27-SEP-06 00:31	0.432	ND			1	5
3-Nitroaniline	27-SEP-06 00:31	0.429	ND			1	5
Acenaphthene	27-SEP-06 00:31	0.494	ND			1	5
2,4-Dinitrophenol	27-SEP-06 00:31	2.57	ND			1	20
4-Nitrophenol	27-SEP-06 00:31	2.00	ND			1	20
Dibenzofuran	27-SEP-06 00:31	0.577	ND			1	5
2,4-Dinitrotoluene	27-SEP-06 00:31	0.328	ND			1	5
Diethylphthalate	27-SEP-06 00:31	0.435	ND			1	5

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0BB

Date Printed.....: 29-SEP-06 09:41
Client Name.....: North Dakota State Water Commission

DCL Sample Name...: 06E04366
DCL Report Group..: 06E-0590-02

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
4-Chlorophenyl phenyl ether	27-SEP-06 00:31	0.392	ND			1	5
Fluorene	27-SEP-06 00:31	0.363	ND			1	5
4-Nitroaniline	27-SEP-06 00:31	0.263	ND			1	5
4,6-Dinitro-2-methylphenol	27-SEP-06 00:31	2.28	ND			1	20
N-nitrosodiphenylamine	27-SEP-06 00:31	0.645	ND			1	5
4-Bromophenyl Phenyl Ether	27-SEP-06 00:31	0.394	ND			1	5
Hexachlorobenzene	27-SEP-06 00:31	0.255	ND			1	5
Pentachlorophenol	27-SEP-06 00:31	1.66	ND			1	20
Phenanthrene	27-SEP-06 00:31	0.416	ND			1	5
Anthracene	27-SEP-06 00:31	0.331	ND			1	5
Carbazole	27-SEP-06 00:31	0.327	ND			1	5
Di-n-butylphthalate	27-SEP-06 00:31	0.807	ND			1	5
Fluoranthene	27-SEP-06 00:31	0.515	ND			1	5
Pyrene	27-SEP-06 00:31	0.441	ND			1	5
Butylbenzylphthalate	27-SEP-06 00:31	4.01	ND			1	5
3,3'-Dichlorobenzidine	27-SEP-06 00:31	1.55	ND			1	5
Benzo(a)anthracene	27-SEP-06 00:31	0.335	ND			1	5
Chrysene	27-SEP-06 00:31	0.184	ND			1	5
Bis(2-ethylhexyl)phthalate	27-SEP-06 00:31	1.53	ND			1	5
Di-n-octylphthalate	27-SEP-06 00:31	1.32	ND			1	5
Benzo(b)fluoranthene	27-SEP-06 00:31	0.265	ND			1	5
Benzo(k)fluoranthene	27-SEP-06 00:31	0.272	ND			1	5
Benzo(a)pyrene	27-SEP-06 00:31	0.221	ND			1	5
Indeno(1,2,3-c,d)pyrene	27-SEP-06 00:31	0.412	ND			1	5
Dibenz(a,h)Anthracene	27-SEP-06 00:31	0.407	ND			1	5
Benzo(g,h,i)perylene	27-SEP-06 00:31	0.446	ND			1	5

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual.	Dilution
Undecanoic acid(9.21)	27-SEP-06 00:31	7.2		J	1
Polycyclic hydrocarbon(19.01)	27-SEP-06 00:31	11.		JB	1
Unknown nitro-aromatic(20.38)	27-SEP-06 00:31	10.		J	1
Unsaturated Hydrocarbon(20.68)	27-SEP-06 00:31	7.0		J	1
Unknown nitro-aromatic(22.08)	27-SEP-06 00:31	40.		J	1
Polycyclic hydrocarbon(24.46)	27-SEP-06 00:31	4.2		J	1

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0BC

Date Printed.....: 29-SEP-06 09:41

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068M00M
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 3510
Aliquot Weight/Volume: 1000 mL
Net Weight/Volume....: Not Required

Client Sample Name: **13098**
DCL Sample Name...: **06E04367**
DCL Report Group..: **06E-0590-02**

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Analysis Group: G068M00M
Analysis Method...: 8270C
Instrument Type...: GC/MS SV
Instrument ID.....: 5973-Y
Column Type.....: DB5 30M x .32mm
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Pyridine	27-SEP-06 01:03	0.381	ND			1	5
Phenol	27-SEP-06 01:03	0.266	ND			1	5
Bis(2-chloroethyl)ether	27-SEP-06 01:03	0.339	ND			1	5
2-Chlorophenol	27-SEP-06 01:03	0.429	ND			1	5
1,3-Dichlorobenzene	27-SEP-06 01:03	0.290	ND			1	5
1,4-Dichlorobenzene	27-SEP-06 01:03	0.379	ND			1	5
Benzyl Alcohol	27-SEP-06 01:03	0.402	ND			1	5
1,2-Dichlorobenzene	27-SEP-06 01:03	0.241	ND			1	5
2-Methylphenol	27-SEP-06 01:03	0.216	ND			1	5
Bis(2-chloroisopropyl)ether	27-SEP-06 01:03	0.356	ND			1	5
4-Methylphenol	27-SEP-06 01:03	0.114	ND			1	5
N-Nitrosodi-n-propyl amine	27-SEP-06 01:03	0.971	ND			1	5
Hexachloroethane	27-SEP-06 01:03	0.272	ND			1	5
Nitrobenzene	27-SEP-06 01:03	0.392	ND			1	5
Isophorone	27-SEP-06 01:03	0.415	ND			1	5
2-Nitrophenol	27-SEP-06 01:03	0.457	ND			1	5
2,4-Dimethylphenol	27-SEP-06 01:03	0.992	ND			1	5
Benzoic acid	27-SEP-06 01:03	3.19	ND			1	20
bis(2-Chloroethoxy)methane	27-SEP-06 01:03	0.427	ND			1	5
2,4-Dichlorophenol	27-SEP-06 01:03	0.361	ND			1	5
1,2,4-Trichlorobenzene	27-SEP-06 01:03	0.337	ND			1	5
Naphthalene	27-SEP-06 01:03	0.660	ND			1	5
4-Chloroaniline	27-SEP-06 01:03	0.249	ND			1	5
Hexachlorobutadiene	27-SEP-06 01:03	0.353	ND			1	5
4-Chloro-3-methylphenol	27-SEP-06 01:03	0.337	ND			1	5
2-Methylnaphthalene	27-SEP-06 01:03	0.505	ND			1	5
Hexachlorocyclopentadiene	27-SEP-06 01:03	0.266	ND			1	5
2,4,6-Trichlorophenol	27-SEP-06 01:03	0.299	ND			1	5
2,4,5-Trichlorophenol	27-SEP-06 01:03	0.225	ND			1	5
2-Chloronaphthalene	27-SEP-06 01:03	0.367	ND			1	5
2-Nitroaniline	27-SEP-06 01:03	0.361	ND			1	5
Dimethylphthalate	27-SEP-06 01:03	0.346	ND			1	5
2,6-Dinitrotoluene	27-SEP-06 01:03	0.552	ND			1	5
Acenaphthylene	27-SEP-06 01:03	0.432	ND			1	5
3-Nitroaniline	27-SEP-06 01:03	0.429	ND			1	5
Acenaphthene	27-SEP-06 01:03	0.494	ND			1	5
2,4-Dinitrophenol	27-SEP-06 01:03	2.57	ND			1	20
4-Nitrophenol	27-SEP-06 01:03	2.00	ND			1	20
Dibenzofuran	27-SEP-06 01:03	0.577	ND			1	5
2,4-Dinitrotoluene	27-SEP-06 01:03	0.328	ND			1	5
Diethylphthalate	27-SEP-06 01:03	0.435	ND			1	5

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0BC

Date Printed.....: 29-SEP-06 09:41
Client Name.....: North Dakota State Water Commission

DCL Sample Name...: **06E04367**
DCL Report Group..: **06E-0590-02**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
4-Chlorophenyl phenyl ether	27-SEP-06 01:03	0.392	ND			1	5
Fluorene	27-SEP-06 01:03	0.363	ND			1	5
4-Nitroaniline	27-SEP-06 01:03	0.263	ND			1	5
4,6-Dinitro-2-methylphenol	27-SEP-06 01:03	2.28	ND			1	20
N-nitrosodiphenylamine	27-SEP-06 01:03	0.645	ND			1	5
4-Bromophenyl Phenyl Ether	27-SEP-06 01:03	0.394	ND			1	5
Hexachlorobenzene	27-SEP-06 01:03	0.255	ND			1	5
Pentachlorophenol	27-SEP-06 01:03	1.66	ND			1	20
Phenanthrene	27-SEP-06 01:03	0.416	ND			1	5
Anthracene	27-SEP-06 01:03	0.331	ND			1	5
Carbazole	27-SEP-06 01:03	0.327	ND			1	5
Di-n-butylphthalate	27-SEP-06 01:03	0.807	1.3		J	1	5
Fluoranthene	27-SEP-06 01:03	0.515	ND			1	5
Pyrene	27-SEP-06 01:03	0.441	ND			1	5
Butylbenzylphthalate	27-SEP-06 01:03	4.01	ND			1	5
3,3'-Dichlorobenzidine	27-SEP-06 01:03	1.55	ND			1	5
Benzo(a)anthracene	27-SEP-06 01:03	0.335	ND			1	5
Chrysene	27-SEP-06 01:03	0.184	ND			1	5
Bis(2-ethylhexyl)phthalate	27-SEP-06 01:03	1.53	2.5		J	1	5
Di-n-octylphthalate	27-SEP-06 01:03	1.32	ND			1	5
Benzo(b)fluoranthene	27-SEP-06 01:03	0.265	ND			1	5
Benzo(k)fluoranthene	27-SEP-06 01:03	0.272	ND			1	5
Benzo(a)pyrene	27-SEP-06 01:03	0.221	ND			1	5
Indeno(1,2,3-c,d)pyrene	27-SEP-06 01:03	0.412	ND			1	5
Dibenz(a,h)Anthracene	27-SEP-06 01:03	0.407	ND			1	5
Benzo(g,h,i)perylene	27-SEP-06 01:03	0.446	ND			1	5

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual.	Dilution
Undecanoic acid(9.22)	27-SEP-06 01:03	9.0		J	1
Unknown nitro-aromatic(17.02)	27-SEP-06 01:03	23.		J	1
Polycyclic hydrocarbon(19.02)	27-SEP-06 01:03	14.		JB	1
Unknown nitro-aromatic(20.55)	27-SEP-06 01:03	10.		J	1
Unknown nitro-aromatic(22.06)	27-SEP-06 01:03	4.4		J	1
Polycyclic hydrocarbon(24.45)	27-SEP-06 01:03	6.1		J	1

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0BD

Date Printed.....: 29-SEP-06 09:41

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068M00M
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 3510
Aliquot Weight/Volume: 1000 mL
Net Weight/Volume....: Not Required

Client Sample Name: **RESERVOIR**
DCL Sample Name...: **06E04368**
DCL Report Group...: **06E-0590-02**

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Analysis Group: G068M00M
Analysis Method...: 8270C
Instrument Type...: GC/MS SV
Instrument ID.....: 5973-Y
Column Type.....: DB5 30M x .32mm
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Pyridine	27-SEP-06 01:35	0.381	ND			1	5
Phenol	27-SEP-06 01:35	0.266	ND			1	5
Bis(2-chloroethyl)ether	27-SEP-06 01:35	0.339	ND			1	5
2-Chlorophenol	27-SEP-06 01:35	0.429	ND			1	5
1,3-Dichlorobenzene	27-SEP-06 01:35	0.290	ND			1	5
1,4-Dichlorobenzene	27-SEP-06 01:35	0.379	ND			1	5
Benzyl Alcohol	27-SEP-06 01:35	0.402	ND			1	5
1,2-Dichlorobenzene	27-SEP-06 01:35	0.241	ND			1	5
2-Methylphenol	27-SEP-06 01:35	0.216	ND			1	5
Bis(2-chloroisopropyl)ether	27-SEP-06 01:35	0.356	ND			1	5
4-Methylphenol	27-SEP-06 01:35	0.114	ND			1	5
N-Nitrosodi-n-propyl amine	27-SEP-06 01:35	0.971	ND			1	5
Hexachloroethane	27-SEP-06 01:35	0.272	ND			1	5
Nitrobenzene	27-SEP-06 01:35	0.392	ND			1	5
Isophorone	27-SEP-06 01:35	0.415	ND			1	5
2-Nitrophenol	27-SEP-06 01:35	0.457	ND			1	5
2,4-Dimethylphenol	27-SEP-06 01:35	0.992	ND			1	5
Benzoic acid	27-SEP-06 01:35	3.19	ND			1	20
bis(2-Chloroethoxy)methane	27-SEP-06 01:35	0.427	ND			1	5
2,4-Dichlorophenol	27-SEP-06 01:35	0.361	ND			1	5
1,2,4-Trichlorobenzene	27-SEP-06 01:35	0.337	ND			1	5
Naphthalene	27-SEP-06 01:35	0.660	ND			1	5
4-Chloroaniline	27-SEP-06 01:35	0.249	ND			1	5
Hexachlorobutadiene	27-SEP-06 01:35	0.353	ND			1	5
4-Chloro-3-methylphenol	27-SEP-06 01:35	0.337	ND			1	5
2-Methylnaphthalene	27-SEP-06 01:35	0.505	ND			1	5
Hexachlorocyclopentadiene	27-SEP-06 01:35	0.266	ND			1	5
2,4,6-Trichlorophenol	27-SEP-06 01:35	0.299	ND			1	5
2,4,5-Trichlorophenol	27-SEP-06 01:35	0.225	ND			1	5
2-Chloronaphthalene	27-SEP-06 01:35	0.367	ND			1	5
2-Nitroaniline	27-SEP-06 01:35	0.361	ND			1	5
Dimethylphthalate	27-SEP-06 01:35	0.346	ND			1	5
2,6-Dinitrotoluene	27-SEP-06 01:35	0.552	ND			1	5
Acenaphthylene	27-SEP-06 01:35	0.432	ND			1	5
3-Nitroaniline	27-SEP-06 01:35	0.429	ND			1	5
Acenaphthene	27-SEP-06 01:35	0.494	ND			1	5
2,4-Dinitrophenol	27-SEP-06 01:35	2.57	ND			1	20
4-Nitrophenol	27-SEP-06 01:35	2.00	ND			1	20
Dibenzofuran	27-SEP-06 01:35	0.577	ND			1	5
2,4-Dinitrotoluene	27-SEP-06 01:35	0.328	ND			1	5
Diethylphthalate	27-SEP-06 01:35	0.435	ND			1	5

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
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Page 24

SAMPLE ANALYSIS DATA SHEET

S068L0BD

Date Printed.....: 29-SEP-06 09:41
Client Name.....: North Dakota State Water Commission

DCL Sample Name...: **06E04368**
DCL Report Group..: **06E-0590-02**

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
4-Chlorophenyl phenyl ether	27-SEP-06 01:35	0.392	ND			1	5
Fluorene	27-SEP-06 01:35	0.363	ND			1	5
4-Nitroaniline	27-SEP-06 01:35	0.263	ND			1	5
4,6-Dinitro-2-methylphenol	27-SEP-06 01:35	2.28	ND			1	20
N-nitrosodiphenylamine	27-SEP-06 01:35	0.645	ND			1	5
4-Bromophenyl Phenyl Ether	27-SEP-06 01:35	0.394	ND			1	5
Hexachlorobenzene	27-SEP-06 01:35	0.255	ND			1	5
Pentachlorophenol	27-SEP-06 01:35	1.66	ND			1	20
Phenanthrene	27-SEP-06 01:35	0.416	ND			1	5
Anthracene	27-SEP-06 01:35	0.331	ND			1	5
Carbazole	27-SEP-06 01:35	0.327	ND			1	5
Di-n-butylphthalate	27-SEP-06 01:35	0.807	ND			1	5
Fluoranthene	27-SEP-06 01:35	0.515	ND			1	5
Pyrene	27-SEP-06 01:35	0.441	ND			1	5
Butylbenzylphthalate	27-SEP-06 01:35	4.01	ND			1	5
3,3'-Dichlorobenzidine	27-SEP-06 01:35	1.55	ND			1	5
Benzo(a)anthracene	27-SEP-06 01:35	0.335	ND			1	5
Chrysene	27-SEP-06 01:35	0.184	ND			1	5
Bis(2-ethylhexyl)phthalate	27-SEP-06 01:35	1.53	ND			1	5
Di-n-octylphthalate	27-SEP-06 01:35	1.32	ND			1	5
Benzo(b)fluoranthene	27-SEP-06 01:35	0.265	ND			1	5
Benzo(k)fluoranthene	27-SEP-06 01:35	0.272	ND			1	5
Benzo(a)pyrene	27-SEP-06 01:35	0.221	ND			1	5
Indeno(1,2,3-c,d)pyrene	27-SEP-06 01:35	0.412	ND			1	5
Dibenz(a,h)Anthracene	27-SEP-06 01:35	0.407	ND			1	5
Benzo(g,h,i)perylene	27-SEP-06 01:35	0.446	ND			1	5

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual.	Dilution
Squalene(17.32)	27-SEP-06 01:35	26.		J	1
Polycyclic hydrocarbon(19.02)	27-SEP-06 01:35	30.		JB	1
Unknown nitro-aromatic(22.09)	27-SEP-06 01:35	46.		J	1
Polycyclic hydrocarbon(24.46)	27-SEP-06 01:35	17.		J	1

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0BF

Date Printed.....: 29-SEP-06 09:41

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068M00M
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 3510
Aliquot Weight/Volume: 1000 mL
Net Weight/Volume....: Not Required

Client Sample Name: **SOUTH SPRING**
DCL Sample Name....: **06E04369**
DCL Report Group...: **06E-0590-02**

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units....: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Analysis Group: G068M00M
Analysis Method....: 8270C
Instrument Type....: GC/MS SV
Instrument ID.....: 5973-Y
Column Type.....: DB5 30M x .32mm
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Pyridine	27-SEP-06 02:07	0.381	ND			1	5
Phenol	27-SEP-06 02:07	0.266	0.35		JX	1	5
Bis(2-chloroethyl)ether	27-SEP-06 02:07	0.339	0.40		JX	1	5
2-Chlorophenol	27-SEP-06 02:07	0.429	ND			1	5
1,3-Dichlorobenzene	27-SEP-06 02:07	0.290	0.50		JX	1	5
1,4-Dichlorobenzene	27-SEP-06 02:07	0.379	0.54		JX	1	5
Benzyl Alcohol	27-SEP-06 02:07	0.402	ND			1	5
1,2-Dichlorobenzene	27-SEP-06 02:07	0.241	0.46		JX	1	5
2-Methylphenol	27-SEP-06 02:07	0.216	0.27		JX	1	5
Bis(2-chloroisopropyl)ether	27-SEP-06 02:07	0.356	0.36		JX	1	5
4-Methylphenol	27-SEP-06 02:07	0.114	0.23		JX	1	5
N-Nitrosodi-n-propyl amine	27-SEP-06 02:07	0.971	ND			1	5
Hexachloroethane	27-SEP-06 02:07	0.272	ND			1	5
Nitrobenzene	27-SEP-06 02:07	0.392	0.79		JX	1	5
Isophorone	27-SEP-06 02:07	0.415	ND			1	5
2-Nitrophenol	27-SEP-06 02:07	0.457	0.52		JX	1	5
2,4-Dimethylphenol	27-SEP-06 02:07	0.992	ND			1	5
Benzoic acid	27-SEP-06 02:07	3.19	ND			1	20
bis(2-Chloroethoxy)methane	27-SEP-06 02:07	0.427	ND			1	5
2,4-Dichlorophenol	27-SEP-06 02:07	0.361	0.39		JX	1	5
1,2,4-Trichlorobenzene	27-SEP-06 02:07	0.337	0.59		JX	1	5
Naphthalene	27-SEP-06 02:07	0.660	0.69		JX	1	5
4-Chloroaniline	27-SEP-06 02:07	0.249	ND			1	5
Hexachlorobutadiene	27-SEP-06 02:07	0.353	0.37		JX	1	5
4-Chloro-3-methylphenol	27-SEP-06 02:07	0.337	ND			1	5
2-Methylnaphthalene	27-SEP-06 02:07	0.505	0.54		JX	1	5
Hexachlorocyclopentadiene	27-SEP-06 02:07	0.266	ND			1	5
2,4,6-Trichlorophenol	27-SEP-06 02:07	0.299	ND			1	5
2,4,5-Trichlorophenol	27-SEP-06 02:07	0.225	ND			1	5
2-Chloronaphthalene	27-SEP-06 02:07	0.367	0.37		JX	1	5
2-Nitroaniline	27-SEP-06 02:07	0.361	ND			1	5
Dimethylphthalate	27-SEP-06 02:07	0.346	ND			1	5
2,6-Dinitrotoluene	27-SEP-06 02:07	0.552	ND			1	5
Acenaphthylene	27-SEP-06 02:07	0.432	ND			1	5
3-Nitroaniline	27-SEP-06 02:07	0.429	ND			1	5
Acenaphthene	27-SEP-06 02:07	0.494	ND			1	5
2,4-Dinitrophenol	27-SEP-06 02:07	2.57	ND			1	20
4-Nitrophenol	27-SEP-06 02:07	2.00	ND			1	20
Dibenzofuran	27-SEP-06 02:07	0.577	ND			1	5
2,4-Dinitrotoluene	27-SEP-06 02:07	0.328	ND			1	5
Diethylphthalate	27-SEP-06 02:07	0.435	ND			1	5

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0BF

Date Printed.....: 29-SEP-06 09:41
Client Name.....: North Dakota State Water Commission

DCL Sample Name...: 06E04369
DCL Report Group..: 06E-0590-02

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
4-Chlorophenyl phenyl ether	27-SEP-06 02:07	0.392	ND			1	5
Fluorene	27-SEP-06 02:07	0.363	ND			1	5
4-Nitroaniline	27-SEP-06 02:07	0.263	ND			1	5
4,6-Dinitro-2-methylphenol	27-SEP-06 02:07	2.28	ND			1	20
N-nitrosodiphenylamine	27-SEP-06 02:07	0.645	ND			1	5
4-Bromophenyl Phenyl Ether	27-SEP-06 02:07	0.394	ND			1	5
Hexachlorobenzene	27-SEP-06 02:07	0.255	ND			1	5
Pentachlorophenol	27-SEP-06 02:07	1.66	ND			1	20
Phenanthrene	27-SEP-06 02:07	0.416	ND			1	5
Anthracene	27-SEP-06 02:07	0.331	ND			1	5
Carbazole	27-SEP-06 02:07	0.327	ND			1	5
Di-n-butylphthalate	27-SEP-06 02:07	0.807	ND			1	5
Fluoranthene	27-SEP-06 02:07	0.515	ND			1	5
Pyrene	27-SEP-06 02:07	0.441	ND			1	5
Butylbenzylphthalate	27-SEP-06 02:07	4.01	ND			1	5
3,3'-Dichlorobenzidine	27-SEP-06 02:07	1.55	ND			1	5
Benzo(a)anthracene	27-SEP-06 02:07	0.335	ND			1	5
Chrysene	27-SEP-06 02:07	0.184	ND			1	5
Bis(2-ethylhexyl)phthalate	27-SEP-06 02:07	1.53	ND			1	5
Di-n-octylphthalate	27-SEP-06 02:07	1.32	ND			1	5
Benzo(b)fluoranthene	27-SEP-06 02:07	0.265	ND			1	5
Benzo(k)fluoranthene	27-SEP-06 02:07	0.272	ND			1	5
Benzo(a)pyrene	27-SEP-06 02:07	0.221	ND			1	5
Indeno(1,2,3-c,d)pyrene	27-SEP-06 02:07	0.412	ND			1	5
Dibenz(a,h)Anthracene	27-SEP-06 02:07	0.407	ND			1	5
Benzo(g,h,i)perylene	27-SEP-06 02:07	0.446	ND			1	5

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual.	Dilution
Squalene(17.32)	27-SEP-06 02:07	4.8		J	1
Polycyclic hydrocarbon(19.02)	27-SEP-06 02:07	21.		J	1
Polycyclic hydrocarbon(24.46)	27-SEP-06 02:07	10.		J	1

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0BG

Date Printed.....: 29-SEP-06 09:41

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068M00M
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 3510
Aliquot Weight/Volume: 1000 mL
Net Weight/Volume....: Not Required

Client Sample Name: **SOUTH SPRING|FIELD DUP**
DCL Sample Name....: **06E04370**
DCL Report Group...: **06E-0590-02**

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: ☒ As Received ☐ Dried

DCL Analysis Group: G068M00M
Analysis Method...: 8270C
Instrument Type...: GC/MS SV
Instrument ID.....: 5973-Y
Column Type.....: DB5 30M x .32mm
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
Pyridine	27-SEP-06 02:39	0.381	ND			1	5
Phenol	27-SEP-06 02:39	0.266	ND			1	5
Bis(2-chloroethyl)ether	27-SEP-06 02:39	0.339	ND			1	5
2-Chlorophenol	27-SEP-06 02:39	0.429	ND			1	5
1,3-Dichlorobenzene	27-SEP-06 02:39	0.290	ND			1	5
1,4-Dichlorobenzene	27-SEP-06 02:39	0.379	ND			1	5
Benzyl Alcohol	27-SEP-06 02:39	0.402	ND			1	5
1,2-Dichlorobenzene	27-SEP-06 02:39	0.241	ND			1	5
2-Methylphenol	27-SEP-06 02:39	0.216	ND			1	5
Bis(2-chloroisopropyl)ether	27-SEP-06 02:39	0.356	ND			1	5
4-Methylphenol	27-SEP-06 02:39	0.114	ND			1	5
N-Nitrosodi-n-propyl amine	27-SEP-06 02:39	0.971	ND			1	5
Hexachloroethane	27-SEP-06 02:39	0.272	ND			1	5
Nitrobenzene	27-SEP-06 02:39	0.392	ND			1	5
Isophorone	27-SEP-06 02:39	0.415	ND			1	5
2-Nitrophenol	27-SEP-06 02:39	0.457	ND			1	5
2,4-Dimethylphenol	27-SEP-06 02:39	0.992	ND			1	5
Benzoic acid	27-SEP-06 02:39	3.19	ND			1	20
bis(2-Chloroethoxy)methane	27-SEP-06 02:39	0.427	ND			1	5
2,4-Dichlorophenol	27-SEP-06 02:39	0.361	ND			1	5
1,2,4-Trichlorobenzene	27-SEP-06 02:39	0.337	ND			1	5
Naphthalene	27-SEP-06 02:39	0.660	ND			1	5
4-Chloroaniline	27-SEP-06 02:39	0.249	ND			1	5
Hexachlorobutadiene	27-SEP-06 02:39	0.353	ND			1	5
4-Chloro-3-methylphenol	27-SEP-06 02:39	0.337	ND			1	5
2-Methylnaphthalene	27-SEP-06 02:39	0.505	ND			1	5
Hexachlorocyclopentadiene	27-SEP-06 02:39	0.266	ND			1	5
2,4,6-Trichlorophenol	27-SEP-06 02:39	0.299	ND			1	5
2,4,5-Trichlorophenol	27-SEP-06 02:39	0.225	ND			1	5
2-Chloronaphthalene	27-SEP-06 02:39	0.367	ND			1	5
2-Nitroaniline	27-SEP-06 02:39	0.361	ND			1	5
Dimethylphthalate	27-SEP-06 02:39	0.346	ND			1	5
2,6-Dinitrotoluene	27-SEP-06 02:39	0.552	ND			1	5
Acenaphthylene	27-SEP-06 02:39	0.432	ND			1	5
3-Nitroaniline	27-SEP-06 02:39	0.429	ND			1	5
Acenaphthene	27-SEP-06 02:39	0.494	ND			1	5
2,4-Dinitrophenol	27-SEP-06 02:39	2.57	ND			1	20
4-Nitrophenol	27-SEP-06 02:39	2.00	ND			1	20
Dibenzofuran	27-SEP-06 02:39	0.577	ND			1	5
2,4-Dinitrotoluene	27-SEP-06 02:39	0.328	ND			1	5
Diethylphthalate	27-SEP-06 02:39	0.435	ND			1	5

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0BG

Date Printed.....: 29-SEP-06 09:41
Client Name.....: North Dakota State Water Commission

DCL Sample Name...: 06E04370
DCL Report Group..: 06E-0590-02

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
4-Chlorophenyl phenyl ether	27-SEP-06 02:39	0.392	ND			1	5
Fluorene	27-SEP-06 02:39	0.363	ND			1	5
4-Nitroaniline	27-SEP-06 02:39	0.263	ND			1	5
4,6-Dinitro-2-methylphenol	27-SEP-06 02:39	2.28	ND			1	20
N-nitrosodiphenylamine	27-SEP-06 02:39	0.645	ND			1	5
4-Bromophenyl Phenyl Ether	27-SEP-06 02:39	0.394	ND			1	5
Hexachlorobenzene	27-SEP-06 02:39	0.255	ND			1	5
Pentachlorophenol	27-SEP-06 02:39	1.66	ND			1	20
Phenanthrene	27-SEP-06 02:39	0.416	ND			1	5
Anthracene	27-SEP-06 02:39	0.331	ND			1	5
Carbazole	27-SEP-06 02:39	0.327	ND			1	5
Di-n-butylphthalate	27-SEP-06 02:39	0.807	ND			1	5
Fluoranthene	27-SEP-06 02:39	0.515	ND			1	5
Pyrene	27-SEP-06 02:39	0.441	ND			1	5
Butylbenzylphthalate	27-SEP-06 02:39	4.01	ND			1	5
3,3'-Dichlorobenzidine	27-SEP-06 02:39	1.55	ND			1	5
Benzo(a)anthracene	27-SEP-06 02:39	0.335	ND			1	5
Chrysene	27-SEP-06 02:39	0.184	ND			1	5
Bis(2-ethylhexyl)phthalate	27-SEP-06 02:39	1.53	ND			1	5
Di-n-octylphthalate	27-SEP-06 02:39	1.32	ND			1	5
Benzo(b)fluoranthene	27-SEP-06 02:39	0.265	ND			1	5
Benzo(k)fluoranthene	27-SEP-06 02:39	0.272	ND			1	5
Benzo(a)pyrene	27-SEP-06 02:39	0.221	ND			1	5
Indeno(1,2,3-c,d)pyrene	27-SEP-06 02:39	0.412	ND			1	5
Dibenz(a,h)Anthracene	27-SEP-06 02:39	0.407	ND			1	5
Benzo(g,h,i)perylene	27-SEP-06 02:39	0.446	ND			1	5

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual.	Dilution
Polycyclic hydrocarbon(19.02)	27-SEP-06 02:39	16.		JB	1
Unknown nitro-aromatic(22.08)	27-SEP-06 02:39	4.9		J	1
Polycyclic hydrocarbon(24.46)	27-SEP-06 02:39	9.3		J	1

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FORM B (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)

S068M01H

Client Name.....: North Dakota State Water Commission
Release Number.....: CCS Sampling

Matrix.....: WATERA
Reporting Units.....: ug/L

DCL Preparation Group: G068M00M
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 3510

DCL Sample Name...: QC-250878-1
Date Printed.....: 29-SEP-06 09:41

DCL Analysis Group: G068M00M
Analysis Method...: SW 8270
Instrument Type...: GC/MS SV
Instrument ID.....: 5973-Y
Column Type.....: DB5 30M x .32mm
[X] Primary
[ ] Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
Phenol	26-SEP-06 17:32	40.0	8.46	21.1	8.39/50.1	
Bis(2-chloroethyl)ether	26-SEP-06 17:32	40.0	26.0	65.1	41.0/102.	
2-Chlorophenol	26-SEP-06 17:32	40.0	22.0	54.9	29.3/106.	
1,3-Dichlorobenzene	26-SEP-06 17:32	40.0	22.7	56.8	34.2/81.8	
1,4-Dichlorobenzene	26-SEP-06 17:32	40.0	22.9	57.3	35.1/83.7	
Benzyl Alcohol	26-SEP-06 17:32	40.0	19.8	49.4	26.0/106.	
1,2-Dichlorobenzene	26-SEP-06 17:32	40.0	23.5	58.7	37.4/90.4	
2-Methylphenol	26-SEP-06 17:32	40.0	18.6	46.6	33.0/93.0	
Bis(2-chloroisopropyl)ether	26-SEP-06 17:32	40.0	26.7	66.7	40.2/102.	
4-Methylphenol	26-SEP-06 17:32	40.0	16.5	41.1	27.2/88.9	
N-Nitrosodi-n-propyl amine	26-SEP-06 17:32	40.0	27.4	68.5	48.4/107.	
Hexachloroethane	26-SEP-06 17:32	40.0	22.3	55.7	31.1/80.6	
Nitrobenzene	26-SEP-06 17:32	40.0	27.0	67.5	49.8/101.	
Isophorone	26-SEP-06 17:32	40.0	27.3	68.2	50.4/105.	
2-Nitrophenol	26-SEP-06 17:32	40.0	27.3	68.3	35.6/115.	
2,4-Dimethylphenol	26-SEP-06 17:32	40.0	25.2	63.1	38.2/103.	
Benzoic acid	26-SEP-06 17:32	40.0	6.47	16.2	/76.8	
bis(2-Chloroethoxy)methane	26-SEP-06 17:32	40.0	27.1	67.7	48.0/106.	
2,4-Dichlorophenol	26-SEP-06 17:32	40.0	24.5	61.2	37.5/115.	
1,2,4-Trichlorobenzene	26-SEP-06 17:32	40.0	23.6	59.1	43.0/95.6	
Naphthalene	26-SEP-06 17:32	40.0	25.5	63.7	48.5/96.3	
4-Chloroaniline	26-SEP-06 17:32	40.0	24.5	61.2	45.4/111.	
Hexachlorobutadiene	26-SEP-06 17:32	40.0	22.5	56.1	32.8/96.6	
4-Chloro-3-methylphenol	26-SEP-06 17:32	40.0	25.2	62.9	45.2/113.	
2-Methylnaphthalene	26-SEP-06 17:32	40.0	26.3	65.8	50.9/104.	
Hexachlorocyclopentadiene	26-SEP-06 17:32	40.0	22.7	56.9	7.34/101.	
2,4,6-Trichlorophenol	26-SEP-06 17:32	40.0	27.7	69.2	38.7/125.	
2,4,5-Trichlorophenol	26-SEP-06 17:32	40.0	27.2	67.9	40.6/122.	
2-Chloronaphthalene	26-SEP-06 17:32	40.0	27.4	68.5	54.3/104.	
2-Nitroaniline	26-SEP-06 17:32	40.0	31.0	77.6	58.6/110.	
Dimethylphthalate	26-SEP-06 17:32	40.0	30.4	76.0	61.9/110.	
2,6-Dinitrotoluene	26-SEP-06 17:32	40.0	31.2	77.9	59.8/114.	
Acenaphthylene	26-SEP-06 17:32	40.0	29.3	73.1	59.2/105.	
3-Nitroaniline	26-SEP-06 17:32	40.0	34.7	86.7	43.3/136.	
Acenaphthene	26-SEP-06 17:32	40.0	29.1	72.8	57.2/108.	
2,4-Dinitrophenol	26-SEP-06 17:32	40.0	26.2	65.6	17.1/123.	
4-Nitrophenol	26-SEP-06 17:32	40.0	7.73	19.3	7.85/52.0	
Dibenzofuran	26-SEP-06 17:32	40.0	29.4	73.5	61.0/107.	
2,4-Dinitrotoluene	26-SEP-06 17:32	40.0	31.7	79.2	62.5/114.	
Diethylphthalate	26-SEP-06 17:32	40.0	31.9	79.7	59.6/115.	
4-Chlorophenyl phenyl ether	26-SEP-06 17:32	40.0	30.5	76.1	60.7/111.	
Fluorene	26-SEP-06 17:32	40.0	30.8	77.0	60.0/111.	
4-Nitroaniline	26-SEP-06 17:32	40.0	38.5	96.2	47.2/135.	
4,6-Dinitro-2-methylphenol	26-SEP-06 17:32	40.0	29.5	73.8	27.0/128.	
N-nitrosodiphenylamine	26-SEP-06 17:32	40.0	35.1	87.7	57.5/124.	
4-Bromophenyl Phenyl Ether	26-SEP-06 17:32	40.0	29.8	74.5	59.5/112.	

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DATA CHEM LABORATORIES
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FORM B (TYPE I)
SINGLE METHOD ANALYSES

S068M01H

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)

DCL Sample Name...: QC-250878-1
Client Name.....: North Dakota State Water Commission
Date Printed.....: 29-SEP-06 09:41

Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
Hexachlorobenzene	26-SEP-06 17:32	40.0	28.9	72.3	60.2/112.	
Pentachlorophenol	26-SEP-06 17:32	40.0	29.7	74.2	40.2/135.	
Phenanthrene	26-SEP-06 17:32	40.0	30.8	76.9	61.6/111.	
Anthracene	26-SEP-06 17:32	40.0	31.7	79.2	63.5/110.	
Di-n-butylphthalate	26-SEP-06 17:32	40.0	33.2	82.9	62.2/116.	
Fluoranthene	26-SEP-06 17:32	40.0	32.6	81.5	59.2/114.	
Pyrene	26-SEP-06 17:32	40.0	28.6	71.5	58.3/118.	
Butylbenzylphthalate	26-SEP-06 17:32	40.0	31.5	78.7	60.4/121.	
3,3'-Dichlorobenzidine	26-SEP-06 17:32	40.0	59.8	149.	28.2/160.	
Benzo(a)anthracene	26-SEP-06 17:32	40.0	30.7	76.8	63.6/111.	
Chrysene	26-SEP-06 17:32	40.0	31.3	78.2	61.0/115.	
Bis(2-ethylhexyl)phthalate	26-SEP-06 17:32	40.0	30.9	77.4	55.7/134.	
Di-n-octylphthalate	26-SEP-06 17:32	40.0	31.3	78.4	50.8/132.	
Benzo(b)fluoranthene	26-SEP-06 17:32	40.0	30.6	76.4	61.3/111.	
Benzo(k)fluoranthene	26-SEP-06 17:32	40.0	28.2	70.5	45.0/125.	
Benzo(a)pyrene	26-SEP-06 17:32	40.0	30.7	76.8	64.0/111.	
Indeno(1,2,3-c,d)pyrene	26-SEP-06 17:32	40.0	33.6	83.9	55.9/125.	
Dibenz(a,h)Anthracene	26-SEP-06 17:32	40.0	33.5	83.7	50.7/128.	
Benzo(g,h,i)perylene	26-SEP-06 17:32	40.0	34.7	86.8	55.9/124.	

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DATA CHEM LABORATORIES
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FORM C (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
BLANK SAMPLE

S068M01G

Client Name.....: North Dakota State Water Commission
Release Number.....: CCS Sampling

Matrix.....: WATER
Reporting Units.....: ug/L

DCL Preparation Group: G068M00M
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 3510

DCL Sample Name...: BL-250878-1
Date Printed.....: 29-SEP-06 09:41

DCL Analysis Group: G068M00M
Analysis Method...: 8270C
Instrument Type...: GC/MS SV
Instrument ID.....: 5973-Y
Column Type.....: DB5 30M x .32mm
[X] Primary
[ ] Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Result	MDL	CRDL
Pyridine	26-SEP-06 17:00	ND	0.381	5
Phenol	26-SEP-06 17:00	ND	0.266	5
Bis(2-chloroethyl)ether	26-SEP-06 17:00	ND	0.339	5
2-Chlorophenol	26-SEP-06 17:00	ND	0.429	5
1,3-Dichlorobenzene	26-SEP-06 17:00	ND	0.290	5
1,4-Dichlorobenzene	26-SEP-06 17:00	ND	0.379	5
Benzyl Alcohol	26-SEP-06 17:00	ND	0.402	5
1,2-Dichlorobenzene	26-SEP-06 17:00	ND	0.241	5
2-Methylphenol	26-SEP-06 17:00	ND	0.216	5
Bis(2-chloroisopropyl)ether	26-SEP-06 17:00	ND	0.356	5
4-Methylphenol	26-SEP-06 17:00	ND	0.114	5
N-Nitrosodi-n-propyl amine	26-SEP-06 17:00	ND	0.971	5
Hexachloroethane	26-SEP-06 17:00	ND	0.272	5
Nitrobenzene	26-SEP-06 17:00	ND	0.392	5
Isophorone	26-SEP-06 17:00	ND	0.415	5
2-Nitrophenol	26-SEP-06 17:00	ND	0.457	5
2,4-Dimethylphenol	26-SEP-06 17:00	ND	0.992	5
Benzoic acid	26-SEP-06 17:00	ND	3.19	20
bis(2-Chloroethoxy)methane	26-SEP-06 17:00	ND	0.427	5
2,4-Dichlorophenol	26-SEP-06 17:00	ND	0.361	5
1,2,4-Trichlorobenzene	26-SEP-06 17:00	ND	0.337	5
Naphthalene	26-SEP-06 17:00	ND	0.660	5
4-Chloroaniline	26-SEP-06 17:00	ND	0.249	5
Hexachlorobutadiene	26-SEP-06 17:00	ND	0.353	5
4-Chloro-3-methylphenol	26-SEP-06 17:00	ND	0.337	5
2-Methylnaphthalene	26-SEP-06 17:00	ND	0.505	5
Hexachlorocyclopentadiene	26-SEP-06 17:00	ND	0.266	5
2,4,6-Trichlorophenol	26-SEP-06 17:00	ND	0.299	5
2,4,5-Trichlorophenol	26-SEP-06 17:00	ND	0.225	5
2-Chloronaphthalene	26-SEP-06 17:00	ND	0.367	5
2-Nitroaniline	26-SEP-06 17:00	ND	0.361	5
Dimethylphthalate	26-SEP-06 17:00	ND	0.346	5
2,6-Dinitrotoluene	26-SEP-06 17:00	ND	0.552	5
Acenaphthylene	26-SEP-06 17:00	ND	0.432	5
3-Nitroaniline	26-SEP-06 17:00	ND	0.429	5
Acenaphthene	26-SEP-06 17:00	ND	0.494	5
2,4-Dinitrophenol	26-SEP-06 17:00	ND	2.57	20
4-Nitrophenol	26-SEP-06 17:00	ND	2.00	20
Dibenzofuran	26-SEP-06 17:00	ND	0.577	5
2,4-Dinitrotoluene	26-SEP-06 17:00	ND	0.328	5
Diethylphthalate	26-SEP-06 17:00	ND	0.435	5
4-Chlorophenyl phenyl ether	26-SEP-06 17:00	ND	0.392	5
Fluorene	26-SEP-06 17:00	ND	0.363	5
4-Nitroaniline	26-SEP-06 17:00	ND	0.263	5
4,6-Dinitro-2-methylphenol	26-SEP-06 17:00	ND	2.28	20
N-nitrosodiphenylamine	26-SEP-06 17:00	ND	0.645	5
4-Bromophenyl Phenyl Ether	26-SEP-06 17:00	ND	0.394	5

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FORM C (TYPE I)
SINGLE METHOD ANALYSES

S068M01G

QUALITY CONTROL DATA SHEET
BLANK SAMPLE

DCL Sample Name...: **BL-250878-1**
Client Name.....: North Dakota State Water Commission
Date Printed.....: 29-SEP-06 09:41

Analytical Results

Analyte	Date Analyzed	Result	MDL	CRDL
Hexachlorobenzene	26-SEP-06 17:00	ND	0.255	5
Pentachlorophenol	26-SEP-06 17:00	ND	1.66	20
Phenanthrene	26-SEP-06 17:00	ND	0.416	5
Anthracene	26-SEP-06 17:00	ND	0.331	5
Carbazole	26-SEP-06 17:00	ND	0.327	5
Di-n-butylphthalate	26-SEP-06 17:00	ND	0.807	5
Fluoranthene	26-SEP-06 17:00	ND	0.515	5
Pyrene	26-SEP-06 17:00	ND	0.441	5
Butylbenzylphthalate	26-SEP-06 17:00	ND	4.01	5
3,3'-Dichlorobenzidine	26-SEP-06 17:00	ND	1.55	5
Benzo(a)anthracene	26-SEP-06 17:00	ND	0.335	5
Chrysene	26-SEP-06 17:00	ND	0.184	5
Bis(2-ethylhexyl)phthalate	26-SEP-06 17:00	ND	1.53	5
Di-n-octylphthalate	26-SEP-06 17:00	ND	1.32	5
Benzo(b)fluoranthene	26-SEP-06 17:00	ND	0.265	5
Benzo(k)fluoranthene	26-SEP-06 17:00	ND	0.272	5
Benzo(a)pyrene	26-SEP-06 17:00	ND	0.221	5
Indeno(1,2,3-c,d)pyrene	26-SEP-06 17:00	ND	0.412	5
Dibenz(a,h)Anthracene	26-SEP-06 17:00	ND	0.407	5
Benzo(g,h,i)perylene	26-SEP-06 17:00	ND	0.446	5

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual.	Dilution
Polycyclic hydrocarbon(19.02)	26-SEP-06 17:00	11.		J	1

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DATA CHEM LABORATORIES
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FORM F (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE

S068L09Z

Client Name.....: North Dakota State Water Commission
Release Number.....: CCS Sampling

Matrix.....: WATERA
Reporting Units.....: ug/L

DCL Preparation Group: G068M00M
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 3510

DCL Sample Name....: 06E04358MS
Date Printed.....: 29-SEP-06 09:41

DCL Analysis Group: G068M00M
Analysis Method...: SW 8270
Instrument Type....: GC/MS SV
Instrument ID.....: 5973-Y
Column Type.....: DB5 30M x .32mm
[X] Primary
[ ] Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
Phenol	26-SEP-06 18:36	0.00	7.00	40.0	17.5	8.39/50.1	
Bis(2-chloroethyl)ether	26-SEP-06 18:36	0.00	24.1	40.0	60.3	41.0/102.	
2-Chlorophenol	26-SEP-06 18:36	0.00	15.4	40.0	38.6	29.3/106.	
1,3-Dichlorobenzene	26-SEP-06 18:36	0.00	18.5	40.0	46.3	34.2/81.8	
1,4-Dichlorobenzene	26-SEP-06 18:36	0.00	18.7	40.0	46.8	35.1/83.7	
Benzyl Alcohol	26-SEP-06 18:36	0.00	18.1	40.0	45.3	26.0/106.	
1,2-Dichlorobenzene	26-SEP-06 18:36	0.00	19.7	40.0	49.3	37.4/90.4	
2-Methylphenol	26-SEP-06 18:36	0.00	14.1	40.0	35.3	33.0/93.0	
Bis(2-chloroisopropyl)ether	26-SEP-06 18:36	0.00	24.7	40.0	61.7	40.2/102.	
4-Methylphenol	26-SEP-06 18:36	0.00	12.4	40.0	31.0	27.2/88.9	
N-Nitrosodi-n-propyl amine	26-SEP-06 18:36	0.00	26.4	40.0	65.9	48.4/107.	
Hexachloroethane	26-SEP-06 18:36	0.00	17.6	40.0	43.9	31.1/80.6	
Nitrobenzene	26-SEP-06 18:36	0.00	26.1	40.0	65.1	49.8/101.	
Isophorone	26-SEP-06 18:36	0.00	26.4	40.0	66.1	50.4/105.	
2-Nitrophenol	26-SEP-06 18:36	0.00	20.4	40.0	51.0	35.6/115.	
2,4-Dimethylphenol	26-SEP-06 18:36	0.00	14.3	40.0	35.7	38.2/103.	*
Benzoic acid	26-SEP-06 18:36	0.00	6.58	40.0	16.5	/76.8	
bis(2-Chloroethoxy)methane	26-SEP-06 18:36	0.00	25.9	40.0	64.7	48.0/106.	
2,4-Dichlorophenol	26-SEP-06 18:36	0.00	18.2	40.0	45.5	37.5/115.	
1,2,4-Trichlorobenzene	26-SEP-06 18:36	0.00	20.7	40.0	51.8	43.0/95.6	
Naphthalene	26-SEP-06 18:36	0.00	23.2	40.0	58.0	48.5/96.3	
4-Chloroaniline	26-SEP-06 18:36	0.00	23.6	40.0	59.1	45.4/111.	
Hexachlorobutadiene	26-SEP-06 18:36	0.00	17.6	40.0	44.1	32.8/96.6	
4-Chloro-3-methylphenol	26-SEP-06 18:36	0.00	18.2	40.0	45.4	45.2/113.	
2-Methylnaphthalene	26-SEP-06 18:36	0.00	24.5	40.0	61.2	50.9/104.	
Hexachlorocyclopentadiene	26-SEP-06 18:36	0.00	15.7	40.0	39.2	7.34/101.	
2,4,6-Trichlorophenol	26-SEP-06 18:36	0.00	20.3	40.0	50.9	38.7/125.	
2,4,5-Trichlorophenol	26-SEP-06 18:36	0.00	19.9	40.0	49.8	40.6/122.	
2-Chloronaphthalene	26-SEP-06 18:36	0.00	24.9	40.0	62.3	54.3/104.	
2-Nitroaniline	26-SEP-06 18:36	0.00	29.1	40.0	72.8	58.6/110.	
Dimethylphthalate	26-SEP-06 18:36	0.00	24.2	40.0	60.4	61.9/110.	*
2,6-Dinitrotoluene	26-SEP-06 18:36	0.00	28.2	40.0	70.5	59.8/114.	
Acenaphthylene	26-SEP-06 18:36	0.00	26.5	40.0	66.3	59.2/105.	
3-Nitroaniline	26-SEP-06 18:36	0.00	32.0	40.0	79.9	43.3/136.	
Acenaphthene	26-SEP-06 18:36	0.00	26.2	40.0	65.5	57.2/108.	
2,4-Dinitrophenol	26-SEP-06 18:36	0.00	16.2	40.0	40.5	17.1/123.	
4-Nitrophenol	26-SEP-06 18:36	0.00	6.19	40.0	15.5	7.85/52.0	
Dibenzofuran	26-SEP-06 18:36	0.00	26.3	40.0	65.8	61.0/107.	
2,4-Dinitrotoluene	26-SEP-06 18:36	0.00	28.2	40.0	70.5	62.5/114.	
Diethylphthalate	26-SEP-06 18:36	0.00	27.2	40.0	68.1	59.6/115.	
4-Chlorophenyl phenyl ether	26-SEP-06 18:36	0.00	25.7	40.0	64.2	60.7/111.	
Fluorene	26-SEP-06 18:36	0.00	26.8	40.0	67.1	60.0/111.	
4-Nitroaniline	26-SEP-06 18:36	0.00	33.5	40.0	83.7	47.2/135.	
4,6-Dinitro-2-methylphenol	26-SEP-06 18:36	0.00	19.9	40.0	49.8	27.0/128.	
N-nitrosodiphenylamine	26-SEP-06 18:36	0.00	30.4	40.0	76.0	57.5/124.	
4-Bromophenyl Phenyl Ether	26-SEP-06 18:36	0.00	24.0	40.0	60.0	59.5/112.	
Hexachlorobenzene	26-SEP-06 18:36	0.00	21.3	40.0	53.2	60.2/112.	*

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FAX (801) 268-9992 E-mail: lab@datachem.com

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FORM F (TYPE I)
SINGLE METHOD ANALYSES

S068L09Z

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE

Client Name.....: North Dakota State Water Commission

DCL Sample Name...: **06E04358MS**
Date Printed.....: 29-SEP-06 09:41

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
Pentachlorophenol	26-SEP-06 18:36	0.00	23.4	40.0	58.4	40.2/135.	
Phenanthrene	26-SEP-06 18:36	0.00	25.7	40.0	64.4	61.6/111.	
Anthracene	26-SEP-06 18:36	0.00	25.5	40.0	63.8	63.5/110.	
Di-n-butylphthalate	26-SEP-06 18:36	0.345	26.7	40.0	65.9	62.2/116.	
Fluoranthene	26-SEP-06 18:36	0.00	24.1	40.0	60.2	59.2/114.	
Pyrene	26-SEP-06 18:36	0.00	23.1	40.0	57.8	58.3/118.	*
Butylbenzylphthalate	26-SEP-06 18:36	0.277	25.6	40.0	63.3	60.4/121.	
3,3'-Dichlorobenzidine	26-SEP-06 18:36	0.00	45.7	40.0	114.	28.2/160.	
Benzo(a)anthracene	26-SEP-06 18:36	0.00	21.7	40.0	54.4	63.6/111.	*
Chrysene	26-SEP-06 18:36	0.00	21.7	40.0	54.4	61.0/115.	*
Bis(2-ethylhexyl)phthalate	26-SEP-06 18:36	0.730	24.1	40.0	58.4	55.7/134.	
Di-n-octylphthalate	26-SEP-06 18:36	0.00	21.4	40.0	53.5	50.8/132.	
Benzo(b)fluoranthene	26-SEP-06 18:36	0.00	19.9	40.0	49.8	61.3/111.	*
Benzo(k)fluoranthene	26-SEP-06 18:36	0.00	19.6	40.0	49.1	45.0/125.	
Benzo(a)pyrene	26-SEP-06 18:36	0.00	20.7	40.0	51.6	64.0/111.	*
Indeno(1,2,3-c,d)pyrene	26-SEP-06 18:36	0.00	23.6	40.0	59.1	55.9/125.	
Dibenz(a,h)Anthracene	26-SEP-06 18:36	0.00	23.4	40.0	58.5	50.7/128.	
Benzo(g,h,i)perylene	26-SEP-06 18:36	0.00	25.8	40.0	64.4	55.9/124.	

S068L0B0

DCL Sample Name...: **06E04358MSD**

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
Phenol	26-SEP-06 19:08	7.03	17.6	7.01	0.0220	0.31	0.00/26.1	
Bis(2-chloroethyl)ether	26-SEP-06 19:08	24.3	60.7	24.2	0.136	0.56	0.00/26.3	
2-Chlorophenol	26-SEP-06 19:08	19.3	48.1	17.3	3.83	22.	0.00/27.4	
1,3-Dichlorobenzene	26-SEP-06 19:08	19.3	48.3	18.9	0.808	4.3	0.00/41.3	
1,4-Dichlorobenzene	26-SEP-06 19:08	19.4	48.6	19.1	0.710	3.7	0.00/30.8	
Benzyl Alcohol	26-SEP-06 19:08	18.6	46.6	18.4	0.520	2.8	0.00/41.1	
1,2-Dichlorobenzene	26-SEP-06 19:08	20.1	50.2	19.9	0.360	1.8	0.00/35.5	
2-Methylphenol	26-SEP-06 19:08	15.9	39.8	15.0	1.80	12.	0.00/32.9	
Bis(2-chloroisopropyl)ether	26-SEP-06 19:08	25.1	62.8	24.9	0.427	1.7	0.00/38.0	
4-Methylphenol	26-SEP-06 19:08	13.7	34.4	13.1	1.33	10.	0.00/34.4	
N-Nitrosodi-n-propyl amine	26-SEP-06 19:08	26.0	65.1	26.2	0.316	1.2	0.00/45.5	
Hexachloroethane	26-SEP-06 19:08	18.4	46.0	18.0	0.842	4.7	0.00/41.7	
Nitrobenzene	26-SEP-06 19:08	25.6	63.9	25.8	0.488	1.9	0.00/32.8	
Isophorone	26-SEP-06 19:08	26.3	65.6	26.3	0.172	0.65	0.00/38.4	
2-Nitrophenol	26-SEP-06 19:08	27.0	67.6	23.7	6.62	28.	0.00/30.6	
2,4-Dimethylphenol	26-SEP-06 19:08	16.8	42.0	15.5	2.55	16.	0.00/51.4	
Benzoic acid	26-SEP-06 19:08	5.79	14.5	6.18	0.793	13.	0.00/74.3	
bis(2-Chloroethoxy)methane	26-SEP-06 19:08	26.1	65.2	26.0	0.166	0.64	0.00/36.0	
2,4-Dichlorophenol	26-SEP-06 19:08	22.6	56.4	20.4	4.37	21.	0.00/34.1	
1,2,4-Trichlorobenzene	26-SEP-06 19:08	20.9	52.2	20.8	0.153	0.74	0.00/29.1	
Naphthalene	26-SEP-06 19:08	23.3	58.1	23.2	0.0380	0.16	0.00/36.0	
4-Chloroaniline	26-SEP-06 19:08	21.7	54.3	22.7	1.91	8.4	0.00/28.0	
Hexachlorobutadiene	26-SEP-06 19:08	19.0	47.5	18.3	1.39	7.6	0.00/42.6	
4-Chloro-3-methylphenol	26-SEP-06 19:08	22.4	55.9	20.3	4.20	21.	0.00/23.6	
2-Methylnaphthalene	26-SEP-06 19:08	24.6	61.6	24.6	0.134	0.55	0.00/22.0	
Hexachlorocyclopentadiene	26-SEP-06 19:08	18.7	46.6	17.2	2.96	17.	0.00/83.0	
2,4,6-Trichlorophenol	26-SEP-06 19:08	25.2	62.9	22.8	4.84	21.	0.00/31.5	
2,4,5-Trichlorophenol	26-SEP-06 19:08	24.7	61.7	22.3	4.78	21.	0.00/27.7	

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
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FAX (801) 268-9992
Web Page: www.datachem.com
E-mail: lab@datachem.com

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FORM F (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE

S068L0B0

DCL Sample Name...: 06E04358MSD
Client Name.....: North Dakota State Water Commission
Date Printed.....: 29-SEP-06 09:41

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
2-Chloronaphthalene	26-SEP-06 19:08	25.7	64.4	25.3	0.817	3.2	0.00/38.8	
2-Nitroaniline	26-SEP-06 19:08	29.2	73.0	29.2	0.0780	0.27	0.00/33.8	
Dimethylphthalate	26-SEP-06 19:08	28.2	70.4	26.2	4.02	15.	0.00/32.1	
2,6-Dinitrotoluene	26-SEP-06 19:08	29.0	72.5	28.6	0.804	2.8	0.00/38.9	
Acenaphthylene	26-SEP-06 19:08	27.5	68.9	27.0	1.01	3.7	0.00/36.0	
3-Nitroaniline	26-SEP-06 19:08	30.9	77.2	31.4	1.07	3.4	0.00/52.0	
Acenaphthene	26-SEP-06 19:08	27.2	67.9	26.7	0.962	3.6	0.00/25.4	
2,4-Dinitrophenol	26-SEP-06 19:08	21.6	54.0	18.9	5.40	29.	0.00/59.5	
4-Nitrophenol	26-SEP-06 19:08	6.22	15.6	6.21	0.0270	0.43	0.00/33.0	
Dibenzofuran	26-SEP-06 19:08	27.3	68.3	26.8	1.04	3.9	0.00/33.8	
2,4-Dinitrotoluene	26-SEP-06 19:08	29.3	73.2	28.7	1.09	3.8	0.00/29.4	
Diethylphthalate	26-SEP-06 19:08	29.6	73.9	28.4	2.33	8.2	0.00/34.0	
4-Chlorophenyl phenyl ether	26-SEP-06 19:08	28.3	70.7	27.0	2.57	9.5	0.00/36.8	
Fluorene	26-SEP-06 19:08	28.6	71.4	27.7	1.73	6.2	0.00/37.9	
4-Nitroaniline	26-SEP-06 19:08	33.4	83.5	33.4	0.0730	0.22	0.00/46.9	
4,6-Dinitro-2-methylphenol	26-SEP-06 19:08	24.2	60.5	22.1	4.29	19.	0.00/39.7	
N-nitrosodiphenylamine	26-SEP-06 19:08	32.3	80.6	31.3	1.84	5.9	0.00/32.9	
4-Bromophenyl Phenyl Ether	26-SEP-06 19:08	27.4	68.6	25.7	3.46	13.	0.00/43.4	
Hexachlorobenzene	26-SEP-06 19:08	26.7	66.7	24.0	5.38	22.	0.00/31.8	
Pentachlorophenol	26-SEP-06 19:08	26.9	67.3	25.1	3.55	14.	0.00/36.5	
Phenanthrene	26-SEP-06 19:08	28.3	70.8	27.0	2.58	9.5	0.00/33.6	
Anthracene	26-SEP-06 19:08	29.2	73.1	27.4	3.73	14.	0.00/34.0	
Di-n-butylphthalate	26-SEP-06 19:08	29.8	73.8	28.3	3.16	11.	0.00/44.4	
Fluoranthene	26-SEP-06 19:08	29.4	73.6	26.7	5.36	20.	0.00/48.7	
Pyrene	26-SEP-06 19:08	27.0	67.5	25.0	3.89	16.	0.00/23.4	
Butylbenzylphthalate	26-SEP-06 19:08	29.5	73.0	27.5	3.88	14.	0.00/26.2	
3,3'-Dichlorobenzidine	26-SEP-06 19:08	32.9	82.2	39.3	12.8	33.	0.00/72.9	
Benzo(a)anthracene	26-SEP-06 19:08	27.6	69.1	24.7	5.88	24.	0.00/30.0	
Chrysene	26-SEP-06 19:08	27.6	69.1	24.7	5.88	24.	0.00/37.6	
Bis(2-ethylhexyl)phthalate	26-SEP-06 19:08	29.0	70.7	26.5	4.93	19.	0.00/24.6	
Di-n-octylphthalate	26-SEP-06 19:08	28.3	70.8	24.9	6.90	28.	0.00/37.0	
Benzo(b)fluoranthene	26-SEP-06 19:08	24.9	62.3	22.4	5.00	22.	0.00/35.2	
Benzo(k)fluoranthene	26-SEP-06 19:08	25.7	64.1	22.6	6.03	27.	0.00/50.0	
Benzo(a)pyrene	26-SEP-06 19:08	26.9	67.2	23.8	6.22	26.	0.00/32.5	
Indeno(1,2,3-c,d)pyrene	26-SEP-06 19:08	32.0	80.1	27.8	8.42	30.	0.00/45.9	
Dibenz(a,h)Anthracene	26-SEP-06 19:08	31.8	79.6	27.6	8.44	31.	0.00/35.0	
Benzo(g,h,i)perylene	26-SEP-06 19:08	33.2	83.0	29.5	7.46	25.	0.00/46.7	

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
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FAX (801) 268-9992 E-mail: lab@datachem.com

DATA CHEM LABORATORIES
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FORM F (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE

S068L0B8

Client Name.....: North Dakota State Water Commission
Release Number.....: CCS Sampling

Matrix.....: WATERA
Reporting Units.....: ug/L

DCL Preparation Group: G068M00M
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 3510

DCL Sample Name...: **06E04365MS**
Date Printed.....: 29-SEP-06 09:41

DCL Analysis Group: G068M00M
Analysis Method...: SW 8270
Instrument Type...: GC/MS SV
Instrument ID.....: 5973-Y
Column Type.....: DB5 30M x .32mm
[X] Primary
[ ] Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
Phenol	26-SEP-06 23:26	0.00	8.45	40.0	21.1	8.39/50.1	
Bis(2-chloroethyl)ether	26-SEP-06 23:26	0.00	27.1	40.0	67.7	41.0/102.	
2-Chlorophenol	26-SEP-06 23:26	0.00	21.6	40.0	54.1	29.3/106.	
1,3-Dichlorobenzene	26-SEP-06 23:26	0.00	23.6	40.0	59.0	34.2/81.8	
1,4-Dichlorobenzene	26-SEP-06 23:26	0.00	24.0	40.0	59.9	35.1/83.7	
Benzyl Alcohol	26-SEP-06 23:26	0.00	21.4	40.0	53.4	26.0/106.	
1,2-Dichlorobenzene	26-SEP-06 23:26	0.00	24.3	40.0	60.9	37.4/90.4	
2-Methylphenol	26-SEP-06 23:26	0.00	18.7	40.0	46.7	33.0/93.0	
Bis(2-chloroisopropyl)ether	26-SEP-06 23:26	0.00	27.6	40.0	68.9	40.2/102.	
4-Methylphenol	26-SEP-06 23:26	0.00	16.2	40.0	40.5	27.2/88.9	
N-Nitrosodi-n-propyl amine	26-SEP-06 23:26	0.00	28.5	40.0	71.3	48.4/107.	
Hexachloroethane	26-SEP-06 23:26	0.00	22.4	40.0	56.0	31.1/80.6	
Nitrobenzene	26-SEP-06 23:26	0.00	27.7	40.0	69.3	49.8/101.	
Isophorone	26-SEP-06 23:26	0.00	27.4	40.0	68.5	50.4/105.	
2-Nitrophenol	26-SEP-06 23:26	0.00	26.9	40.0	67.4	35.6/115.	
2,4-Dimethylphenol	26-SEP-06 23:26	0.00	21.3	40.0	53.2	38.2/103.	
Benzoic acid	26-SEP-06 23:26	0.00	8.37	40.0	20.9	/76.8	
bis(2-Chloroethoxy)methane	26-SEP-06 23:26	0.00	27.6	40.0	68.9	48.0/106.	
2,4-Dichlorophenol	26-SEP-06 23:26	0.00	24.9	40.0	62.3	37.5/115.	
1,2,4-Trichlorobenzene	26-SEP-06 23:26	0.00	24.3	40.0	60.8	43.0/95.6	
Naphthalene	26-SEP-06 23:26	0.00	26.2	40.0	65.5	48.5/96.3	
4-Chloroaniline	26-SEP-06 23:26	0.00	19.8	40.0	49.6	45.4/111.	
Hexachlorobutadiene	26-SEP-06 23:26	0.00	20.2	40.0	50.6	32.8/96.6	
4-Chloro-3-methylphenol	26-SEP-06 23:26	0.00	24.9	40.0	62.3	45.2/113.	
2-Methylnaphthalene	26-SEP-06 23:26	0.00	26.6	40.0	66.6	50.9/104.	
Hexachlorocyclopentadiene	26-SEP-06 23:26	0.00	18.3	40.0	45.7	7.34/101.	
2,4,6-Trichlorophenol	26-SEP-06 23:26	0.00	27.5	40.0	68.8	38.7/125.	
2,4,5-Trichlorophenol	26-SEP-06 23:26	0.00	27.2	40.0	68.1	40.6/122.	
2-Chloronaphthalene	26-SEP-06 23:26	0.00	26.8	40.0	67.1	54.3/104.	
2-Nitroaniline	26-SEP-06 23:26	0.00	30.6	40.0	76.4	58.6/110.	
Dimethylphthalate	26-SEP-06 23:26	0.00	29.6	40.0	74.0	61.9/110.	
2,6-Dinitrotoluene	26-SEP-06 23:26	0.00	30.0	40.0	75.1	59.8/114.	
Acenaphthylene	26-SEP-06 23:26	0.00	28.5	40.0	71.2	59.2/105.	
3-Nitroaniline	26-SEP-06 23:26	0.00	30.0	40.0	75.1	43.3/136.	
Acenaphthene	26-SEP-06 23:26	0.00	27.8	40.0	69.6	57.2/108.	
2,4-Dinitrophenol	26-SEP-06 23:26	0.00	23.6	40.0	59.0	17.1/123.	
4-Nitrophenol	26-SEP-06 23:26	0.00	8.37	40.0	20.9	7.85/52.0	
Dibenzofuran	26-SEP-06 23:26	0.00	28.0	40.0	69.9	61.0/107.	
2,4-Dinitrotoluene	26-SEP-06 23:26	0.00	31.2	40.0	78.0	62.5/114.	
Diethylphthalate	26-SEP-06 23:26	0.328	31.2	40.0	77.2	59.6/115.	
4-Chlorophenyl phenyl ether	26-SEP-06 23:26	0.00	27.0	40.0	67.5	60.7/111.	
Fluorene	26-SEP-06 23:26	0.00	28.4	40.0	71.0	60.0/111.	
4-Nitroaniline	26-SEP-06 23:26	0.00	32.3	40.0	80.6	47.2/135.	
4,6-Dinitro-2-methylphenol	26-SEP-06 23:26	0.00	25.6	40.0	64.1	27.0/128.	
N-nitrosodiphenylamine	26-SEP-06 23:26	0.00	35.1	40.0	87.6	57.5/124.	
4-Bromophenyl Phenyl Ether	26-SEP-06 23:26	0.00	26.2	40.0	65.5	59.5/112.	
Hexachlorobenzene	26-SEP-06 23:26	0.00	25.5	40.0	63.7	60.2/112.	

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
Phone (801) 266-7700 Web Page: www.datachem.com
FAX (801) 268-9992 E-mail: lab@datachem.com

DATA CHEM LABORATORIES
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FORM F (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE

S068L0B8

DCL Sample Name...: **06E04365MS**

Client Name.....: North Dakota State Water Commission

Date Printed.....: 29-SEP-06 09:41

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
Pentachlorophenol	26-SEP-06 23:26	0.00	30.6	40.0	76.4	40.2/135.	
Phenanthrene	26-SEP-06 23:26	0.00	27.5	40.0	68.8	61.6/111.	
Anthracene	26-SEP-06 23:26	0.00	28.0	40.0	70.0	63.5/110.	
Di-n-butylphthalate	26-SEP-06 23:26	0.616	27.8	40.0	68.0	62.2/116.	
Fluoranthene	26-SEP-06 23:26	0.00	25.1	40.0	62.8	59.2/114.	
Pyrene	26-SEP-06 23:26	0.00	29.0	40.0	72.6	58.3/118.	
Butylbenzylphthalate	26-SEP-06 23:26	0.833	29.6	40.0	72.0	60.4/121.	
3,3'-Dichlorobenzidine	26-SEP-06 23:26	0.00	50.6	40.0	127.	28.2/160.	
Benzo(a)anthracene	26-SEP-06 23:26	0.00	27.0	40.0	67.6	63.6/111.	
Chrysene	26-SEP-06 23:26	0.00	27.5	40.0	68.7	61.0/115.	
Bis(2-ethylhexyl)phthalate	26-SEP-06 23:26	1.10	29.9	40.0	71.9	55.7/134.	
Di-n-octylphthalate	26-SEP-06 23:26	0.00	28.0	40.0	70.1	50.8/132.	
Benzo(b)fluoranthene	26-SEP-06 23:26	0.00	24.8	40.0	61.9	61.3/111.	
Benzo(k)fluoranthene	26-SEP-06 23:26	0.00	24.9	40.0	62.3	45.0/125.	
Benzo(a)pyrene	26-SEP-06 23:26	0.00	27.1	40.0	67.7	64.0/111.	
Indeno(1,2,3-c,d)pyrene	26-SEP-06 23:26	0.00	35.4	40.0	88.4	55.9/125.	
Dibenz(a,h)Anthracene	26-SEP-06 23:26	0.00	34.6	40.0	86.5	50.7/128.	
Benzo(g,h,i)perylene	26-SEP-06 23:26	0.00	36.3	40.0	90.8	55.9/124.	

S068L0B9

DCL Sample Name...: **06E04365MSD**

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
Phenol	26-SEP-06 23:59	6.67	16.7	7.56	1.78	24.	0.00/26.1	
Bis(2-chloroethyl)ether	26-SEP-06 23:59	24.9	62.3	26.0	2.15	8.3	0.00/26.3	
2-Chlorophenol	26-SEP-06 23:59	18.0	44.9	19.8	3.68	19.	0.00/27.4	
1,3-Dichlorobenzene	26-SEP-06 23:59	21.3	53.3	22.5	2.30	10.	0.00/41.3	
1,4-Dichlorobenzene	26-SEP-06 23:59	21.6	54.1	22.8	2.31	10.	0.00/30.8	
Benzyl Alcohol	26-SEP-06 23:59	19.3	48.2	20.3	2.07	10.	0.00/41.1	
1,2-Dichlorobenzene	26-SEP-06 23:59	22.2	55.6	23.3	2.11	9.0	0.00/35.5	
2-Methylphenol	26-SEP-06 23:59	15.0	37.5	16.8	3.67	22.	0.00/32.9	
Bis(2-chloroisopropyl)ether	26-SEP-06 23:59	26.0	64.9	26.8	1.60	6.0	0.00/38.0	
4-Methylphenol	26-SEP-06 23:59	13.0	32.6	14.6	3.18	22.	0.00/34.4	
N-Nitrosodi-n-propyl amine	26-SEP-06 23:59	26.8	66.9	27.6	1.78	6.4	0.00/45.5	
Hexachloroethane	26-SEP-06 23:59	21.1	52.7	21.7	1.30	6.0	0.00/41.7	
Nitrobenzene	26-SEP-06 23:59	26.2	65.6	27.0	1.49	5.5	0.00/32.8	
Isophorone	26-SEP-06 23:59	26.2	65.5	26.8	1.17	4.4	0.00/38.4	
2-Nitrophenol	26-SEP-06 23:59	23.6	59.0	25.3	3.35	13.	0.00/30.6	
2,4-Dimethylphenol	26-SEP-06 23:59	14.9	37.3	18.1	6.34	35.	0.00/51.4	
Benzoic acid	26-SEP-06 23:59	6.05	15.1	7.21	2.33	32.	0.00/74.3	
bis(2-Chloroethoxy)methane	26-SEP-06 23:59	26.4	66.1	27.0	1.11	4.1	0.00/36.0	
2,4-Dichlorophenol	26-SEP-06 23:59	21.2	53.0	23.1	3.69	16.	0.00/34.1	
1,2,4-Trichlorobenzene	26-SEP-06 23:59	22.7	56.8	23.5	1.57	6.7	0.00/29.1	
Naphthalene	26-SEP-06 23:59	24.7	61.7	25.4	1.53	6.0	0.00/36.0	
4-Chloroaniline	26-SEP-06 23:59	21.8	54.4	20.8	1.93	9.3	0.00/28.0	
Hexachlorobutadiene	26-SEP-06 23:59	19.7	49.2	20.0	0.576	2.9	0.00/42.6	
4-Chloro-3-methylphenol	26-SEP-06 23:59	20.7	51.8	22.8	4.21	18.	0.00/23.6	
2-Methylnaphthalene	26-SEP-06 23:59	25.5	63.6	26.0	1.17	4.5	0.00/22.0	
Hexachlorocyclopentadiene	26-SEP-06 23:59	16.5	41.1	17.4	1.83	11.	0.00/83.0	
2,4,6-Trichlorophenol	26-SEP-06 23:59	23.4	58.4	25.4	4.16	16.	0.00/31.5	
2,4,5-Trichlorophenol	26-SEP-06 23:59	23.1	57.7	25.2	4.15	16.	0.00/27.7	

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FORM F (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE

S068L0B9

DCL Sample Name....: 06E04365MSD
Client Name.....: North Dakota State Water Commission
Date Printed.....: 29-SEP-06 09:41

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
2-Chloronaphthalene	26-SEP-06 23:59	25.6	64.0	26.2	1.23	4.7	0.00/38.8	
2-Nitroaniline	26-SEP-06 23:59	28.8	72.0	29.7	1.79	6.0	0.00/33.8	
Dimethylphthalate	26-SEP-06 23:59	27.6	69.1	28.6	1.96	6.8	0.00/32.1	
2,6-Dinitrotoluene	26-SEP-06 23:59	28.6	71.4	29.3	1.45	4.9	0.00/38.9	
Acenaphthylene	26-SEP-06 23:59	27.3	68.2	27.9	1.22	4.4	0.00/36.0	
3-Nitroaniline	26-SEP-06 23:59	30.2	75.4	30.1	0.110	0.37	0.00/52.0	
Acenaphthene	26-SEP-06 23:59	26.4	65.9	27.1	1.47	5.4	0.00/25.4	
2,4-Dinitrophenol	26-SEP-06 23:59	18.3	45.8	21.0	5.25	25.	0.00/59.5	
4-Nitrophenol	26-SEP-06 23:59	6.14	15.3	7.26	2.23	31.	0.00/33.0	
Dibenzofuran	26-SEP-06 23:59	26.6	66.4	27.3	1.38	5.1	0.00/33.8	
2,4-Dinitrotoluene	26-SEP-06 23:59	29.2	73.1	30.2	1.96	6.5	0.00/29.4	
Diethylphthalate	26-SEP-06 23:59	28.8	71.2	30.0	2.36	7.9	0.00/34.0	
4-Chlorophenyl phenyl ether	26-SEP-06 23:59	25.5	63.6	26.2	1.55	5.9	0.00/36.8	
Fluorene	26-SEP-06 23:59	27.0	67.4	27.7	1.41	5.1	0.00/37.9	
4-Nitroaniline	26-SEP-06 23:59	29.7	74.1	31.0	2.61	8.4	0.00/46.9	
4,6-Dinitro-2-methylphenol	26-SEP-06 23:59	20.1	50.2	22.9	5.54	24.	0.00/39.7	
N-nitrosodiphenylamine	26-SEP-06 23:59	32.2	80.4	33.6	2.90	8.6	0.00/32.9	
4-Bromophenyl Phenyl Ether	26-SEP-06 23:59	23.9	59.7	25.1	2.32	9.2	0.00/43.4	
Hexachlorobenzene	26-SEP-06 23:59	22.7	56.7	24.1	2.81	12.	0.00/31.8	
Pentachlorophenol	26-SEP-06 23:59	24.6	61.5	27.6	5.96	22.	0.00/36.5	
Phenanthrene	26-SEP-06 23:59	25.5	63.8	26.5	2.00	7.5	0.00/33.6	
Anthracene	26-SEP-06 23:59	25.7	64.1	26.8	2.33	8.7	0.00/34.0	
Di-n-butylphthalate	26-SEP-06 23:59	25.5	62.3	26.7	2.27	8.5	0.00/44.4	
Fluoranthene	26-SEP-06 23:59	22.8	57.0	24.0	2.33	9.7	0.00/48.7	
Pyrene	26-SEP-06 23:59	24.7	61.8	26.9	4.32	16.	0.00/23.4	
Butylbenzylphthalate	26-SEP-06 23:59	27.2	65.8	28.4	2.48	8.7	0.00/26.2	
3,3'-Dichlorobenzidine	26-SEP-06 23:59	47.6	119.	49.1	3.04	6.2	0.00/72.9	
Benzo(a)anthracene	26-SEP-06 23:59	23.3	58.2	25.1	3.77	15.	0.00/30.0	
Chrysene	26-SEP-06 23:59	23.4	58.4	25.4	4.12	16.	0.00/37.6	
Bis(2-ethylhexyl)phthalate	26-SEP-06 23:59	26.4	63.2	28.1	3.50	12.	0.00/24.6	
Di-n-octylphthalate	26-SEP-06 23:59	25.9	64.7	27.0	2.16	8.0	0.00/37.0	
Benzo(b)fluoranthene	26-SEP-06 23:59	22.7	56.8	23.7	2.07	8.7	0.00/35.2	
Benzo(k)fluoranthene	26-SEP-06 23:59	21.1	52.7	23.0	3.84	17.	0.00/50.0	
Benzo(a)pyrene	26-SEP-06 23:59	23.1	57.8	25.1	3.97	16.	0.00/32.5	
Indeno(1,2,3-c,d)pyrene	26-SEP-06 23:59	27.8	69.6	31.6	7.54	24.	0.00/45.9	
Dibenz(a,h)Anthracene	26-SEP-06 23:59	27.6	69.1	31.1	6.97	22.	0.00/35.0	
Benzo(g,h,i)perylene	26-SEP-06 23:59	28.6	71.6	32.5	7.71	24.	0.00/46.7	

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FORM G (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
SURROGATE SUMMARY

G068M00M

Client Name.....: North Dakota State Water Commission
Release Number.....: CCS Sampling

Matrix.....: WATERA
Reporting Units.....: ug/L

Date Printed.....: 29-SEP-06 09:41

DCL Analysis Group: G068M00M
Analysis Method...: SW 8270

DCL Prep Group....: G068M00M
Preparation Method: 3510

QC Limit Type.....: Method

Surrogate Recoveries

Surr. ID	2,4,6-Tribromophenol				2-Fluorobiphenyl				2-Fluorophenol			
QC Limits	33.2/134.				44.9/109.				8.41/74.4			
DCL Sample Number	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q
06E04358	14.1	50.0	28.1	*	27.7	50.0	55.5		8.35	50.0	16.7	
06E04358MS	27.9	50.0	55.7		30.0	50.0	60.1		12.0	50.0	24.0	
06E04358MSD	33.4	50.0	66.8		31.5	50.0	62.9		13.6	50.0	27.3	
06E04359	35.2	50.0	70.4		37.9	50.0	75.9		16.2	50.0	32.4	
06E04360	36.5	50.0	72.9		35.2	50.0	70.5		17.5	50.0	35.1	
06E04362	31.9	50.0	63.8		40.0	50.0	80.0		13.8	50.0	27.6	
06E04363	35.5	50.0	71.0		31.7	50.0	63.5		14.9	50.0	29.9	
06E04364	30.9	50.0	61.8		33.4	50.0	66.8		11.9	50.0	23.7	
06E04365	39.5	50.0	79.1		34.3	50.0	68.6		15.3	50.0	30.7	
06E04365MS	37.6	50.0	75.2		30.4	50.0	60.7		15.7	50.0	31.4	
06E04365MSD	30.7	50.0	61.5		30.7	50.0	61.3		12.7	50.0	25.4	
06E04366	29.1	50.0	58.1		33.3	50.0	66.5		12.4	50.0	24.9	
06E04367	33.0	50.0	65.9		40.4	50.0	80.8		14.8	50.0	29.5	
06E04368	30.3	50.0	60.5		24.8	50.0	49.7		17.5	50.0	35.0	
06E04369	39.5	50.0	79.1		36.7	50.0	73.4		25.0	50.0	50.0	
06E04370	28.7	50.0	57.5		26.3	50.0	52.7		17.2	50.0	34.5	
06E04373	31.6	50.0	63.2		33.4	50.0	66.9		13.8	50.0	27.6	
BL-250878-1	31.0	50.0	62.0		33.3	50.0	66.6		14.1	50.0	28.2	
QC-250878-1	37.5	50.0	75.1		33.2	50.0	66.4		16.0	50.0	32.1	

Surr. ID	Nitrobenzene-d5				Phenol-d5				Terphenyl-d14			
QC Limits	43.5/109.				0.00/66.3				34.7/147.			
DCL Sample Number	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q
06E04358	33.4	50.0	66.7		7.05	50.0	14.1		11.7	50.0	23.5	*
06E04358MS	34.2	50.0	68.5		8.34	50.0	16.7		14.2	50.0	28.3	*
06E04358MSD	33.4	50.0	66.7		8.47	50.0	16.9		26.1	50.0	52.2	
06E04359	41.5	50.0	82.9		10.1	50.0	20.2		37.4	50.0	74.7	
06E04360	40.4	50.0	80.8		11.0	50.0	22.0		21.1	50.0	42.2	
06E04362	46.1	50.0	92.2		8.96	50.0	17.9		31.3	50.0	62.7	
06E04363	38.5	50.0	76.9		8.91	50.0	17.8		28.9	50.0	57.8	
06E04364	36.1	50.0	72.2		8.04	50.0	16.1		22.5	50.0	45.1	
06E04365	36.8	50.0	73.6		9.19	50.0	18.4		27.8	50.0	55.7	
06E04365MS	35.2	50.0	70.4		9.79	50.0	19.6		22.1	50.0	44.2	
06E04365MSD	34.5	50.0	68.9		7.74	50.0	15.5		17.6	50.0	35.3	
06E04366	36.9	50.0	73.8		8.37	50.0	16.7		22.3	50.0	44.6	
06E04367	45.5	50.0	91.0		10.1	50.0	20.2		23.8	50.0	47.7	
06E04368	25.8	50.0	51.6		12.0	50.0	24.1		34.7	50.0	69.4	
06E04369	39.9	50.0	79.7		17.5	50.0	35.0		45.1	50.0	90.3	
06E04370	28.1	50.0	56.2		12.0	50.0	24.1		33.3	50.0	66.6	
06E04373	37.2	50.0	74.5		8.80	50.0	17.6		25.1	50.0	50.2	
BL-250878-1	36.6	50.0	73.2		9.39	50.0	18.8		42.6	50.0	85.2	
QC-250878-1	34.9	50.0	69.8		9.95	50.0	19.9		33.4	50.0	66.7	

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Earliest Sampling Date: 11-Sep-2006

DataChem Laboratories
CHAIN-OF-CUSTODY

Results due by: 29-Sep-2006

Project/Job/Task: P0186001 | *Split:* | **Root Set ID:** 06E-0590 * | **Reporting Group**

Client: North Dakota State Water Commission | **Account:** 08001

Comments:

Verified: Marcell Edmund 20Sep

Date Sampled	Field ID Number	DCL Sample Name	DCL Sample ID	QC	Matrix	Customer ID 2	Analysis				02 Semivols by 8270C	03 8330-Explosives	04 PETN/NG in Water by EPA 8332							# Bottles
11-Sep-2006	13102	06E04358			WATER						X	X	X							2
11-Sep-2006	13102	06E04358MS		MS	WATER						X	X	X							2
11-Sep-2006	13102	06E04358MSD		MSD	WATER						X	X	X							2
13-Sep-2006	FIELD BLANK	06E04359			WATER						X	X	X							3
11-Sep-2006	13086	06E04360			WATER						X	X	X							3
11-Sep-2006	13101	06E04362			WATER						X	X	X							3
11-Sep-2006	13103	06E04363			WATER						X									1
11-Sep-2006	13104	06E04364			WATER						X									1
11-Sep-2006	13087	06E04365			WATER						X	X	X							3
12-Sep-2006	13087	06E04365MS		MS	WATER						X	X	X							3

Court 9-22

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Walk-in/ Room/ Shelf/ Fridge			
R.33.1	9-20-06 1529	RNO	EXT

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: _____ Lab Notebook No.: _____

Prepared/Analyzed by: _____ Date/Time: _____

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
RNO	09/20/06 15:29	Xiaoyan Cheng	Court
Xiaoyan Cheng	09/21/06 13:00	13-78-80	STOR
	9/21/06		GC/MS

Check box if there is a continuation page ☐

Form: COFC1.01-SWV2.30

Earliest Sampling Date: 11-Sep-2006

DataChem Laboratories
CHAIN-OF-CUSTODY

Results due by: 29-Sep-2006

Project/Job/Task: P0186001 | Split: | Root Set ID: 06E-0590 * | Reporting Group

Client: North Dakota State Water Commission | Account: 08001

Comments:

Verified: Mardell Eatinger 20Sep06

Date Sampled	Field ID Number	DCL Sample Name	DCL Sample ID	QC	Matrix	Customer ID 2	Analysis 02 Semivols by 8270C	Analysis 03 8330-Explosives	Analysis 04 PETN/NG in Water by EPA 8332	# Bottles
12-Sep-2006	13087	06E04365MSD		MSD	WATER		X	X	X	3
12-Sep-2006	13097	06E04366			WATER		X	X	X	3
12-Sep-2006	13098	06E04367			WATER		X	X	X	3
12-Sep-2006	RESERVOIR	06E04368			WATER	CAMP CROFTON	X	X	X	3
12-Sep-2006	SOUTH SPRING	06E04369			WATER		X	X	X	3
12-Sep-2006	SOUTH SPRING	06E04370			WATER	FIELD DUP	X	X	X	3
12-Sep-2006	13102	06E04373			WATER	FIELD DUP	X	X	X	3

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Walk-in/ Room/ Shelf/ Fridge			
R334	9-20-06 1521	RWO	EXT

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: _____ Lab Notebook No.. _____

Prepared/Analyzed by: _____ Date/Time: _____

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
RWO	09/20/06 15:21	Xiaoyan Cheng	cone
Xiaoyan Cheng	09/21/06 13:00	9-20-06	STOR
Gjilly	9/21/06	Gjilly	GCMS

Printed 9/19/2006 17:0

Check box if there is a continuation page ☐

Form: COFC1.01-SWV2.30

Appendix B-3, EPA Method 8330

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Case Narrative

Method:	8330	**Client:**	North Dakota State Water Commission
Analysis:	Explosives	**Account:**	8001
Preparation SOP #:	OL-SW-8330	**Matrix:**	Water
Analysis SOP#:	OL-SW-8330		
DCL Set ID's:	06E-0590-03		

General Set Information: This set contained eleven field samples, a method blank, a laboratory control sample (LCS), and two sets of a matrix spike and a matrix spike duplicate (MS/MSD).

Method Summary: The samples were extracted using the double salting out procedure prescribed in EPA method 8330. An aliquot of 770 mL of each sample was saturated with salt and extracted twice with acetonitrile by stirring at timed intervals. The acetonitrile extracts were combined and re-extracted with fresh salt water. The final volume of the extract was adjusted to 5 mL for each sample and filtered through a 0.45 um PTFE filter. One part acetonitrile extract was mixed with one part of a 1% calcium chloride solution, then injected into an HP1050 HPLC equipped with UV detection and a Phenomenex Ultracarb ODS(20) C18 column. The instrument was adjusted to the proper operating parameters and allowed to equilibrate until a stable baseline was established. Initial calibration standards were analyzed and linear calibration curves were generated from the data. A continuing calibration standard was analyzed at the beginning of sample analysis, after each ten samples and at the end of the analysis. The response of the continuing calibration standard must be within method limits when compared to the initial calibration curve.

Samples and QCs were analyzed under identical conditions as those used for initial and continuing calibration. Quantitation was based on calibration curves using the initial calibration standards. Results were reported in units of µg/L.

Holding Times: The samples were extracted outside of method required hold times but were analyzed within method holding times. A Nonconformance/Corrective Action Report (DCL Document# 910) was initiated.

Dilution(s): No dilutions were needed for this set.

Quality Control Data:

Blank: No confirmed method analytes were detected in the method blank sample above half of the CRDL.

Laboratory Control Sample: All LCS analyte recoveries were within performance limits.

MS/MSD: Matrix spiking was performed on samples 06E04358 and 06E04365 (client samples 13102 and 13087, respectively). All MS and MSD analyte recoveries were within performance limits, with the following exceptions. 2,3&4-Nitrotoluene, nitrobenzene, and tetryl failed percent recoveries for sample 06E04358MS. Tetryl failed percent recovery for sample 06E04358MSD. All MS and MSD analyte RPD's (except for tetryl in sample 06E04358MS and MSD) were outside of performance limits, most likely due to matrix effects.

Surrogate recovery: Surrogate recoveries were acceptable for all samples, except samples 06E04358MS and 06E04365MSD.

Instrument QC: All initial instrumental and continuing calibration samples met method criteria.

NC/CAR: DCL Document#910 (see holding times above).

Miscellaneous Comments: None.

Confirmation Analyses: Any sample with a positive result above the MDL was qualitatively analyzed for confirmation on a second column. For samples requiring confirmation, one part acetonitrile extract was mixed with one part of a 1% calcium chloride solution, then injected into an HP1050 HPLC equipped with UV detection and Phenomenex Synergi Polar-RP column. The instrument was adjusted to the proper operating parameters and allowed to equilibrate until a stable baseline was established. A CCV standard was run to establish retention times and a standard at the reporting limits was run to verify low concentration sensitivity. The second column analyses were used for qualitative confirmation of analytes based on retention time. If a positive result is confirmed, the quantitative result from the primary column is reported.

Tom Bosch 10/6/06

Tom Bosch Date

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COVER PAGE

ANALYTICAL REPORT FOR
North Dakota State Water Commission

Phone(703) 328-2739 Fax(701) 328-3696

Form COVER-V1.4
10040615445913

G068L025

OCT 10 2006

DCL Report Group...: 06E-0590-03

Date Printed.....: 04-OCT-06 15:44

Project Protocol #: P0186001
Client Ref Number.: CCS Sampling
Release Number....: CCS Sampling

Analysis Method(s): 8330

North Dakota State Water Commission
Attention: W.M. Schuh
900 East Boulevard
Bismarck, ND 58505

Client Sample Name	Laboratory Sample Name	Date Sampled	Date Received
Method Blank	BL-250879-1	NA	NA
LCS	QC-250879-1	NA	NA
13102	06E04358	11-SEP-06	15-SEP-06
13102	06E04358MS	11-SEP-06	15-SEP-06
13102	06E04358MSD	11-SEP-06	15-SEP-06
13102|FIELD DUP	06E04373	12-SEP-06	15-SEP-06
FIELD BLANK	06E04359	13-SEP-06	15-SEP-06
13086	06E04360	11-SEP-06	15-SEP-06
13101	06E04362	11-SEP-06	15-SEP-06
13087	06E04365	11-SEP-06	15-SEP-06
13087	06E04365MS	12-SEP-06	15-SEP-06
13087	06E04365MSD	12-SEP-06	15-SEP-06
13097	06E04366	12-SEP-06	15-SEP-06
13098	06E04367	12-SEP-06	15-SEP-06
RESERVOIR|CAMP CROFTON	06E04368	12-SEP-06	15-SEP-06
SOUTH SPRING	06E04369	12-SEP-06	15-SEP-06
SOUTH SPRING|FIELD DUP	06E04370	12-SEP-06	15-SEP-06

This report contains

14 pages

Tom Bosch — 10/4/06
Analyst: Thomas N. Bosch — Date

10/05/06
Reviewer: Thomas T McKay — Date

Richard W. Wade — 10/09/06
Lab Supervisor: Richard W. Wade — Date

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FAX (801) 268-9992 E-mail: lab@datachem.com

DATA CHEM LABORATORIES
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FORM H (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE GROUP COMMENTS

G068L025

DCL Report Group...: 06E-0590-03
Date Printed.....: 04-OCT-06 15:44

Client Name...: North Dakota State Water Commission

Release Number....: CCS Sampling

Sample Group Comments

See narrative for comments.

General Information

The DCL QC Database maintains all numerical figures which are input from the pertinent data source. These data have not been rounded to significant figures nor have they been moisture corrected. Reports generated from the system, however, list data which have been rounded to the number of significant figures requested by the client or deemed appropriate for the method. This may create minor discrepancies between data which appear on the QC Summary Forms (Forms B-G) and those that would be calculated from rounded analytical results. Additionally, if a moisture correction is performed, differences will be observed between the QC data and the surrogate data reported on Form A (or other report forms) and corresponding data reported on QC Summary Forms. In these cases, the Form A will indicate the "Report Basis" as well as the moisture value used for making the correction.

DataChem Laboratories, Inc. is accreditated by the State of Utah, Bureau of Laboratory Improvement under NELAP for specific fields of testing as documented in its current scope of accrediation (ID# DATA1) which is available by request or on the internet at http://hlunix.hl.state.ut.us/els/labimp/labcertification/labsutahcert.mdb. The quality systems implemented in the laboratory apply to all methods performed by DataChem regardless of this current scope of accreditation which does not include performance based methods, modified methods and methods applied to matrices not listed in the methods.

Report generation options: BX

Result Symbol Definitions

ND - Not Detected above the MDL (LLD or MDC for radiochemistry).
** - No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U - Not Detected above the MDL (LLD or MDC for radiochemistry).
B - For organic analyses the qualifier indicates that this analyte was found in the method blank. For inorganic analyses the qualifier signifies the value is between the MDL and PQL.
J - For organic analyses the qualifier indicates that the value is between the MDL and the PQL. It is also used for indicating an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

QC Flag Symbol Definitions

* - Parameter outside of specified QC limits.

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0BH

Date Printed.....: 04-OCT-06 15:44

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

Client Sample Name: **13102**
DCL Sample Name...: **06E04358**
DCL Report Group..: **06E-0590-03**

Matrix.....: WATER
Date Sampled.....: 11-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Preparation Group: G068M010
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 8330
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G069100F
Analysis Method...: 8330
Instrument Type...: HPLC
Instrument ID.....: LC08
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
1,3,5-Trinitrobenzene	25-SEP-06 19:11	0.00604	ND		U	1	0.65
1,3-Dinitrobenzene	25-SEP-06 19:11	0.0323	ND		U	1	0.65
2,4,6-Trinitrotoluene	25-SEP-06 19:11	0.0581	ND		U	1	0.26
2,4-Dinitrotoluene	25-SEP-06 19:11	0.0291	ND		U	1	0.65
2,6-Dinitrotoluene	25-SEP-06 19:11	0.102	ND		U	1	0.26
2-Amino-4,6-Dinitrotoluene	25-SEP-06 19:11	0.0756	ND		U	1	0.26
2-Nitrotoluene	25-SEP-06 19:11	0.104	ND		U	1	0.52
3-Nitrotoluene	25-SEP-06 19:11	0.0461	ND		U	1	0.52
4-Amino-2,6-Dinitrotoluene	25-SEP-06 19:11	0.0770	ND		U	1	0.26
4-Nitrotoluene	25-SEP-06 19:11	0.150	ND		U	1	0.52
HMX	25-SEP-06 19:11	0.0757	ND		U	1	0.26
Nitrobenzene	25-SEP-06 19:11	0.0939	ND		U	1	0.26
RDX	25-SEP-06 19:11	0.0866	ND		U	1	0.26
Tetryl	25-SEP-06 19:11	0.0995	ND		U	1	0.26

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

S068L0BL

SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 04-OCT-06 15:44

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068M010
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 8330
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

Client Sample Name: **13102|FIELD DUP**
DCL Sample Name...: **06E04373**
DCL Report Group..: **06E-0590-03**

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: ☒ As Received ☐ Dried

DCL Analysis Group: G069100F
Analysis Method...: 8330
Instrument Type...: HPLC
Instrument ID.....: LC08
Column Type.....: Ultracarb ODS
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
1,3,5-Trinitrobenzene	25-SEP-06 20:52	0.00604	ND		U	1	0.65
1,3-Dinitrobenzene	25-SEP-06 20:52	0.0323	ND		U	1	0.65
2,4,6-Trinitrotoluene	25-SEP-06 20:52	0.0581	ND		U	1	0.26
2,4-Dinitrotoluene	25-SEP-06 20:52	0.0291	ND		U	1	0.65
2,6-Dinitrotoluene	25-SEP-06 20:52	0.102	ND		U	1	0.26
2-Amino-4,6-Dinitrotoluene	25-SEP-06 20:52	0.0756	ND		U	1	0.26
2-Nitrotoluene	25-SEP-06 20:52	0.104	ND		U	1	0.52
3-Nitrotoluene	25-SEP-06 20:52	0.0461	ND		U	1	0.52
4-Amino-2,6-Dinitrotoluene	25-SEP-06 20:52	0.0770	ND		U	1	0.26
4-Nitrotoluene	25-SEP-06 20:52	0.150	ND		U	1	0.52
HMX	25-SEP-06 20:52	0.0757	ND		U	1	0.26
Nitrobenzene	25-SEP-06 20:52	0.0939	ND		U	1	0.26
RDX	25-SEP-06 20:52	0.0866	ND		U	1	0.26
Tetryl	25-SEP-06 20:52	0.0995	ND		U	1	0.26

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0BM

Date Printed.....: 04-OCT-06 15:44

Client Name.....: North Dakota State Water Commission
Client Ref Number...: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068M010
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 8330
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

Client Sample Name: **FIELD BLANK**
DCL Sample Name...: **06E04359**
DCL Report Group..: **06E-0590-03**

Matrix.....: WATER
Date Sampled.....: 13-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Analysis Group: G069100F
Analysis Method...: 8330
Instrument Type...: HPLC
Instrument ID.....: LC08
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
1,3,5-Trinitrobenzene	25-SEP-06 21:26	0.00604	ND		U	1	0.65
1,3-Dinitrobenzene	25-SEP-06 21:26	0.0323	ND		U	1	0.65
2,4,6-Trinitrotoluene	25-SEP-06 21:26	0.0581	ND		U	1	0.26
2,4-Dinitrotoluene	25-SEP-06 21:26	0.0291	ND		U	1	0.65
2,6-Dinitrotoluene	25-SEP-06 21:26	0.102	ND		U	1	0.26
2-Amino-4,6-Dinitrotoluene	25-SEP-06 21:26	0.0756	ND		U	1	0.26
2-Nitrotoluene	25-SEP-06 21:26	0.104	ND		U	1	0.52
3-Nitrotoluene	25-SEP-06 21:26	0.0461	ND		U	1	0.52
4-Amino-2,6-Dinitrotoluene	25-SEP-06 21:26	0.0770	ND		U	1	0.26
4-Nitrotoluene	25-SEP-06 21:26	0.150	ND		U	1	0.52
HMX	25-SEP-06 21:26	0.0757	ND		U	1	0.26
Nitrobenzene	25-SEP-06 21:26	0.0939	ND		U	1	0.26
RDX	25-SEP-06 21:26	0.0866	ND		U	1	0.26
Tetryl	25-SEP-06 21:26	0.0995	ND		U	1	0.26

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0BN

Date Printed.....: 04-OCT-06 15:44

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

Client Sample Name: **13086**
DCL Sample Name...: **06E04360**
DCL Report Group..: **06E-0590-03**

Matrix.....: WATER
Date Sampled.....: 11-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G068M010
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 8330
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G069100F
Analysis Method...: 8330
Instrument Type...: HPLC
Instrument ID.....: LC08
Column Type.....: Ultracarb ODS
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
1,3,5-Trinitrobenzene	25-SEP-06 21:59	0.00604	ND		U	1	0.65
1,3-Dinitrobenzene	25-SEP-06 21:59	0.0323	ND		U	1	0.65
2,4,6-Trinitrotoluene	25-SEP-06 21:59	0.0581	ND		U	1	0.26
2,4-Dinitrotoluene	25-SEP-06 21:59	0.0291	ND		U	1	0.65
2,6-Dinitrotoluene	25-SEP-06 21:59	0.102	ND		U	1	0.26
2-Amino-4,6-Dinitrotoluene	25-SEP-06 21:59	0.0756	ND		U	1	0.26
2-Nitrotoluene	25-SEP-06 21:59	0.104	ND		U	1	0.52
3-Nitrotoluene	25-SEP-06 21:59	0.0461	ND		U	1	0.52
4-Amino-2,6-Dinitrotoluene	25-SEP-06 21:59	0.0770	ND		U	1	0.26
4-Nitrotoluene	25-SEP-06 21:59	0.150	ND		U	1	0.52
HMX	25-SEP-06 21:59	0.0757	ND		U	1	0.26
Nitrobenzene	25-SEP-06 21:59	0.0939	ND		U	1	0.26
RDX	25-SEP-06 21:59	0.0866	ND		U	1	0.26
Tetryl	25-SEP-06 21:59	0.0995	ND		U	1	0.26

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
10040615445913

S068L0BP

Date Printed.....: 04-OCT-06 15:44

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

Client Sample Name: **13101**
DCL Sample Name...: **06E04362**
DCL Report Group..: **06E-0590-03**

Matrix.....: WATER
Date Sampled.....: 11-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Preparation Group: G068M010
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 8330
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G069100F
Analysis Method...: 8330
Instrument Type...: HPLC
Instrument ID.....: LC08
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
1,3,5-Trinitrobenzene	25-SEP-06 22:33	0.00604	ND		U	1	0.65
1,3-Dinitrobenzene	25-SEP-06 22:33	0.0323	ND		U	1	0.65
2,4,6-Trinitrotoluene	25-SEP-06 22:33	0.0581	ND		U	1	0.26
2,4-Dinitrotoluene	25-SEP-06 22:33	0.0291	ND		U	1	0.65
2,6-Dinitrotoluene	25-SEP-06 22:33	0.102	ND		U	1	0.26
2-Amino-4,6-Dinitrotoluene	25-SEP-06 22:33	0.0756	ND		U	1	0.26
2-Nitrotoluene	25-SEP-06 22:33	0.104	ND		U	1	0.52
3-Nitrotoluene	25-SEP-06 22:33	0.0461	ND		U	1	0.52
4-Amino-2,6-Dinitrotoluene	25-SEP-06 22:33	0.0770	ND		U	1	0.26
4-Nitrotoluene	25-SEP-06 22:33	0.150	ND		U	1	0.52
HMX	25-SEP-06 22:33	0.0757	ND		U	1	0.26
Nitrobenzene	25-SEP-06 22:33	0.0939	ND		U	1	0.26
RDX	25-SEP-06 22:33	0.0866	ND		U	1	0.26
Tetryl	25-SEP-06 22:33	0.0995	ND		U	1	0.26

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
1004061544591 3

S068L0BQ

SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 04-OCT-06 15:44

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068M010
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 8330
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

Client Sample Name: 13087
DCL Sample Name....: 06E04365
DCL Report Group...: 06E-0590-03

Matrix.....: WATER
Date Sampled.....: 11-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Analysis Group: G069100F
Analysis Method...: 8330
Instrument Type...: HPLC
Instrument ID.....: LC08
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
1,3,5-Trinitrobenzene	25-SEP-06 23:06	0.00604	ND		U	1	0.65
1,3-Dinitrobenzene	25-SEP-06 23:06	0.0323	ND		U	1	0.65
2,4,6-Trinitrotoluene	25-SEP-06 23:06	0.0581	ND		U	1	0.26
2,4-Dinitrotoluene	25-SEP-06 23:06	0.0291	ND		U	1	0.65
2,6-Dinitrotoluene	25-SEP-06 23:06	0.102	ND		U	1	0.26
2-Amino-4,6-Dinitrotoluene	25-SEP-06 23:06	0.0756	ND		U	1	0.26
2-Nitrotoluene	25-SEP-06 23:06	0.104	ND		U	1	0.52
3-Nitrotoluene	25-SEP-06 23:06	0.0461	ND		U	1	0.52
4-Amino-2,6-Dinitrotoluene	25-SEP-06 23:06	0.0770	ND		U	1	0.26
4-Nitrotoluene	25-SEP-06 23:06	0.150	ND		U	1	0.52
HMX	25-SEP-06 23:06	0.0757	ND		U	1	0.26
Nitrobenzene	25-SEP-06 23:06	0.0939	ND		U	1	0.26
RDX	25-SEP-06 23:06	0.0866	ND		U	1	0.26
Tetryl	25-SEP-06 23:06	0.0995	ND		U	1	0.26

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A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0BT

Date Printed.....: 04-OCT-06 15:44

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

Client Sample Name: **13097**
DCL Sample Name...: **06E04366**
DCL Report Group..: **06E-0590-03**

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G068M010
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 8330
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G069100F
Analysis Method...: 8330
Instrument Type...: HPLC
Instrument ID.....: LC08
Column Type.....: Ultracarb ODS
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
1,3,5-Trinitrobenzene	26-SEP-06 01:21	0.00604	ND		U	1	0.65
1,3-Dinitrobenzene	26-SEP-06 01:21	0.0323	ND		U	1	0.65
2,4,6-Trinitrotoluene	26-SEP-06 01:21	0.0581	ND		U	1	0.26
2,4-Dinitrotoluene	26-SEP-06 01:21	0.0291	ND		U	1	0.65
2,6-Dinitrotoluene	26-SEP-06 01:21	0.102	ND		U	1	0.26
2-Amino-4,6-Dinitrotoluene	26-SEP-06 01:21	0.0756	ND		U	1	0.26
2-Nitrotoluene	26-SEP-06 01:21	0.104	ND		U	1	0.52
3-Nitrotoluene	26-SEP-06 01:21	0.0461	ND		U	1	0.52
4-Amino-2,6-Dinitrotoluene	26-SEP-06 01:21	0.0770	ND		U	1	0.26
4-Nitrotoluene	26-SEP-06 01:21	0.150	ND		U	1	0.52
HMX	26-SEP-06 01:21	0.0757	ND		U	1	0.26
Nitrobenzene	26-SEP-06 01:21	0.0939	ND		U	1	0.26
RDX	26-SEP-06 01:21	0.0866	ND		U	1	0.26
Tetryl	26-SEP-06 01:21	0.0995	ND		U	1	0.26

DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
10040615445913

S068L0BV

SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 04-OCT-06 15:44

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

Client Sample Name: **13098**
DCL Sample Name...: **06E04367**
DCL Report Group..: **06E-0590-03**

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Preparation Group: G068M010
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 8330
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G069100F
Analysis Method...: 8330
Instrument Type...: HPLC
Instrument ID.....: LC08
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
1,3,5-Trinitrobenzene	26-SEP-06 01:54	0.00604	ND		U	1	0.65
1,3-Dinitrobenzene	26-SEP-06 01:54	0.0323	ND		U	1	0.65
2,4,6-Trinitrotoluene	26-SEP-06 01:54	0.0581	ND		U	1	0.26
2,4-Dinitrotoluene	26-SEP-06 01:54	0.0291	ND		U	1	0.65
2,6-Dinitrotoluene	26-SEP-06 01:54	0.102	ND		U	1	0.26
2-Amino-4,6-Dinitrotoluene	26-SEP-06 01:54	0.0756	ND		U	1	0.26
2-Nitrotoluene	26-SEP-06 01:54	0.104	ND		U	1	0.52
3-Nitrotoluene	26-SEP-06 01:54	0.0461	ND		U	1	0.52
4-Amino-2,6-Dinitrotoluene	26-SEP-06 01:54	0.0770	ND		U	1	0.26
4-Nitrotoluene	26-SEP-06 01:54	0.150	ND		U	1	0.52
HMX	26-SEP-06 01:54	0.0757	ND		U	1	0.26
Nitrobenzene	26-SEP-06 01:54	0.0939	ND		U	1	0.26
RDX	26-SEP-06 01:54	0.0866	ND		U	1	0.26
Tetryl	26-SEP-06 01:54	0.0995	ND		U	1	0.26

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0BW

Date Printed.....: 04-OCT-06 15:44

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

Client Sample Name: **RESERVOIR|CAMP CROFTON**
DCL Sample Name...: **06E04368**
DCL Report Group..: **06E-0590-03**

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G068M010
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 8330
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G069100F
Analysis Method...: 8330
Instrument Type...: HPLC
Instrument ID.....: LC08
Column Type.....: Ultracarb ODS
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
1,3,5-Trinitrobenzene	26-SEP-06 02:28	0.00604	ND		U	1	0.65
1,3-Dinitrobenzene	26-SEP-06 02:28	0.0323	ND		U	1	0.65
2,4,6-Trinitrotoluene	26-SEP-06 02:28	0.0581	ND		U	1	0.26
2,4-Dinitrotoluene	26-SEP-06 02:28	0.0291	ND		U	1	0.65
2,6-Dinitrotoluene	26-SEP-06 02:28	0.102	ND		U	1	0.26
2-Amino-4,6-Dinitrotoluene	26-SEP-06 02:28	0.0756	ND		U	1	0.26
2-Nitrotoluene	26-SEP-06 02:28	0.104	ND		U	1	0.52
3-Nitrotoluene	26-SEP-06 02:28	0.0461	ND		U	1	0.52
4-Amino-2,6-Dinitrotoluene	26-SEP-06 02:28	0.0770	ND		U	1	0.26
4-Nitrotoluene	26-SEP-06 02:28	0.150	ND		U	1	0.52
HMX	26-SEP-06 02:28	0.0757	ND		U	1	0.26
Nitrobenzene	26-SEP-06 02:28	0.0939	ND		U	1	0.26
RDX	26-SEP-06 02:28	0.0866	ND		U	1	0.26
Tetryl	26-SEP-06 02:28	0.0995	ND		U	1	0.26

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
10040615445913

S068L0BX

SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 04-OCT-06 15:44

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068M010
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 8330
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

Client Sample Name: **SOUTH SPRING**
DCL Sample Name....: **06E04369**
DCL Report Group...: **06E-0590-03**

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Analysis Group: G069100F
Analysis Method...: 8330
Instrument Type...: HPLC
Instrument ID.....: LC08
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
1,3,5-Trinitrobenzene	26-SEP-06 03:02	0.00604	ND		U	1	0.65
1,3-Dinitrobenzene	26-SEP-06 03:02	0.0323	ND		U	1	0.65
2,4,6-Trinitrotoluene	26-SEP-06 03:02	0.0581	ND		U	1	0.26
2,4-Dinitrotoluene	26-SEP-06 03:02	0.0291	ND		U	1	0.65
2,6-Dinitrotoluene	26-SEP-06 03:02	0.102	ND		U	1	0.26
2-Amino-4,6-Dinitrotoluene	26-SEP-06 03:02	0.0756	ND		U	1	0.26
2-Nitrotoluene	26-SEP-06 03:02	0.104	ND		U	1	0.52
3-Nitrotoluene	26-SEP-06 03:02	0.0461	ND		U	1	0.52
4-Amino-2,6-Dinitrotoluene	26-SEP-06 03:02	0.0770	ND		U	1	0.26
4-Nitrotoluene	26-SEP-06 03:02	0.150	ND		U	1	0.52
HMX	26-SEP-06 03:02	0.0757	ND		U	1	0.26
Nitrobenzene	26-SEP-06 03:02	0.0939	ND		U	1	0.26
RDX	26-SEP-06 03:02	0.0866	ND		U	1	0.26
Tetryl	26-SEP-06 03:02	0.0995	ND		U	1	0.26

DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0BY

Date Printed.....: 04-OCT-06 15:44

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

Client Sample Name: **SOUTH SPRING|FIELD DUP**
DCL Sample Name...: **06E04370**
DCL Report Group..: **06E-0590-03**

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Preparation Group: G068M010
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 8330
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G069100F
Analysis Method...: 8330
Instrument Type...: HPLC
Instrument ID.....: LC08
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
1,3,5-Trinitrobenzene	26-SEP-06 03:35	0.00604	ND		U	1	0.65
1,3-Dinitrobenzene	26-SEP-06 03:35	0.0323	ND		U	1	0.65
2,4,6-Trinitrotoluene	26-SEP-06 03:35	0.0581	ND		U	1	0.26
2,4-Dinitrotoluene	26-SEP-06 03:35	0.0291	ND		U	1	0.65
2,6-Dinitrotoluene	26-SEP-06 03:35	0.102	ND		U	1	0.26
2-Amino-4,6-Dinitrotoluene	26-SEP-06 03:35	0.0756	ND		U	1	0.26
2-Nitrotoluene	26-SEP-06 03:35	0.104	ND		U	1	0.52
3-Nitrotoluene	26-SEP-06 03:35	0.0461	ND		U	1	0.52
4-Amino-2,6-Dinitrotoluene	26-SEP-06 03:35	0.0770	ND		U	1	0.26
4-Nitrotoluene	26-SEP-06 03:35	0.150	ND		U	1	0.52
HMX	26-SEP-06 03:35	0.0757	ND		U	1	0.26
Nitrobenzene	26-SEP-06 03:35	0.0939	ND		U	1	0.26
RDX	26-SEP-06 03:35	0.0866	ND		U	1	0.26
Tetryl	26-SEP-06 03:35	0.0995	ND		U	1	0.26

DATA CHEM LABORATORIES
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FORM B (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)

S068M01K

Client Name.....: North Dakota State Water Commission
Release Number.....: CCS Sampling

Matrix.....: WATER
Reporting Units.....: ug/L

DCL Preparation Group: G068M010
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 8330

DCL Sample Name...: QC-250879-1
Date Printed.....: 04-OCT-06 15:44

DCL Analysis Group: G069100F
Analysis Method...: SW8330-14
Instrument Type...: HPLC
Instrument ID.....: LC08
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
1,3,5-Trinitrobenzene	29-SEP-06 12:44	3.25	3.02	92.8	38.5/141.	
1,3-Dinitrobenzene	29-SEP-06 12:44	3.25	2.87	88.4	65.4/109.	
2,4,6-Trinitrotoluene	29-SEP-06 12:44	6.49	5.46	84.1	48.4/112.	
2,4-Dinitrotoluene	29-SEP-06 12:44	3.25	2.94	90.6	71.1/110.	
2,6-Dinitrotoluene	29-SEP-06 12:44	6.49	5.87	90.5	68.7/112.	
2-Amino-4,6-Dinitrotoluene	29-SEP-06 12:44	6.49	5.83	89.8	70.3/126.	
2-Nitrotoluene	29-SEP-06 12:44	13.0	11.6	89.4	68.3/112.	
3-Nitrotoluene	29-SEP-06 12:44	13.0	11.5	88.5	68.3/115.	
4-Amino-2,6-Dinitrotoluene	29-SEP-06 12:44	6.49	6.51	100.	61.9/153.	
4-Nitrotoluene	29-SEP-06 12:44	13.0	11.3	86.8	67.5/115.	
HMX	29-SEP-06 12:44	6.49	6.03	92.8	70.4/115.	
Nitrobenzene	29-SEP-06 12:44	6.49	5.56	85.7	58.0/108.	
RDX	29-SEP-06 12:44	6.49	6.09	93.9	68.6/123.	
Tetryl	29-SEP-06 12:44	6.49	5.27	81.3	7.17/137.	

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FORM C (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
BLANK SAMPLE

S068M01J

Client Name.....: North Dakota State Water Commission
Release Number.....: CCS Sampling

Matrix.....: WATER
Reporting Units.....: ug/L

DCL Preparation Group: G068M010
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 8330

DCL Sample Name...: BL-250879-1
Date Printed.....: 05-OCT-06 16:10

DCL Analysis Group: G069100F
Analysis Method...: 8330
Instrument Type...: HPLC
Instrument ID.....: LC08
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Result	MDL	CRDL
1,3,5-Trinitrobenzene	29-SEP-06 12:10	ND	0.00604	0.65
1,3-Dinitrobenzene	29-SEP-06 12:10	ND	0.0323	0.65
2,4,6-Trinitrotoluene	29-SEP-06 12:10	ND	0.0581	0.26
2,4-Dinitrotoluene	29-SEP-06 12:10	ND	0.0291	0.65
2,6-Dinitrotoluene	29-SEP-06 12:10	ND	0.102	0.26
2-Amino-4,6-Dinitrotoluene	29-SEP-06 12:10	ND	0.0756	0.26
2-Nitrotoluene	29-SEP-06 12:10	ND	0.104	0.52
3-Nitrotoluene	29-SEP-06 12:10	ND	0.0461	0.52
4-Amino-2,6-Dinitrotoluene	29-SEP-06 12:10	ND	0.0770	0.26
4-Nitrotoluene	29-SEP-06 12:10	ND	0.150	0.52
HMX	29-SEP-06 12:10	ND	0.0757	0.26
Nitrobenzene	29-SEP-06 12:10	ND	0.0939	0.26
RDX	29-SEP-06 12:10	ND	0.0866	0.26
Tetryl	29-SEP-06 12:10	ND	0.0995	0.26

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FORM F (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE

S068L0BJ

Client Name.....: North Dakota State Water Commission
Release Number.....: CCS Sampling

Matrix.....: WATER
Reporting Units.....: ug/L

DCL Preparation Group: G068M010
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 8330

DCL Sample Name...: **06E04358MS**
Date Printed.....: 06-OCT-06 12:55

DCL Analysis Group: G069100F
Analysis Method...: SW8330-14
Instrument Type...: HPLC
Instrument ID.....: LC08
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
1,3,5-Trinitrobenzene	25-SEP-06 19:45	ND	2.08	3.25	64.0	50.0/125.	
1,3-Dinitrobenzene	25-SEP-06 19:45	ND	1.68	3.25	51.7	50.0/125.	
2,4,6-Trinitrotoluene	25-SEP-06 19:45	ND	3.87	6.49	59.6	50.0/125.	
2,4-Dinitrotoluene	25-SEP-06 19:45	ND	1.77	3.25	54.5	50.0/125.	
2,6-Dinitrotoluene	25-SEP-06 19:45	ND	3.31	6.49	51.0	50.0/125.	
2-Amino-4,6-Dinitrotoluene	25-SEP-06 19:45	ND	4.37	6.49	67.3	50.0/125.	
2-Nitrotoluene	25-SEP-06 19:45	ND	6.36	13.0	49.0	50.0/125.	*
3-Nitrotoluene	25-SEP-06 19:45	ND	6.19	13.0	47.7	50.0/125.	*
4-Amino-2,6-Dinitrotoluene	25-SEP-06 19:45	ND	5.30	6.49	81.7	50.0/125.	
4-Nitrotoluene	25-SEP-06 19:45	ND	6.20	13.0	47.8	50.0/125.	*
HMX	25-SEP-06 19:45	ND	4.36	6.49	67.2	50.0/125.	
Nitrobenzene	25-SEP-06 19:45	ND	2.95	6.49	45.5	50.0/125.	*
RDX	25-SEP-06 19:45	ND	4.68	6.49	72.1	50.0/125.	
Tetryl	25-SEP-06 19:45	ND	3.03	6.49	46.7	50.0/125.	*

S068L0BK

DCL Sample Name...: **06E04358MSD**

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
1,3,5-Trinitrobenzene	25-SEP-06 20:18	3.18	97.8	2.63	1.10	42.	0.00/25.0	*
1,3-Dinitrobenzene	25-SEP-06 20:18	3.12	96.0	2.40	1.44	60.	0.00/25.0	*
2,4,6-Trinitrotoluene	25-SEP-06 20:18	5.87	90.4	4.87	2.00	41.	0.00/25.0	*
2,4-Dinitrotoluene	25-SEP-06 20:18	3.12	96.0	2.45	1.35	55.	0.00/25.0	*
2,6-Dinitrotoluene	25-SEP-06 20:18	6.33	97.5	4.82	3.02	63.	0.00/25.0	*
2-Amino-4,6-Dinitrotoluene	25-SEP-06 20:18	6.28	96.8	5.33	1.91	36.	0.00/25.0	*
2-Nitrotoluene	25-SEP-06 20:18	12.7	97.8	9.53	6.34	67.	0.00/25.0	*
3-Nitrotoluene	25-SEP-06 20:18	12.3	94.8	9.24	6.11	66.	0.00/25.0	*
4-Amino-2,6-Dinitrotoluene	25-SEP-06 20:18	7.22	111.	6.26	1.92	31.	0.00/25.0	*
4-Nitrotoluene	25-SEP-06 20:18	12.3	94.8	9.25	6.10	66.	0.00/25.0	*
HMX	25-SEP-06 20:18	6.11	94.1	5.24	1.75	33.	0.00/25.0	*
Nitrobenzene	25-SEP-06 20:18	5.90	90.9	4.43	2.95	67.	0.00/25.0	*
RDX	25-SEP-06 20:18	6.31	97.2	5.50	1.63	30.	0.00/25.0	*
Tetryl	25-SEP-06 20:18	3.12	48.1	3.08	0.0900	2.9	0.00/25.0	

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FORM F (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE

S068L0BR

Client Name.....: North Dakota State Water Commission
Release Number.....: CCS Sampling

Matrix.....: WATER
Reporting Units.....: ug/L

DCL Preparation Group: G068M010
Date Prepared.....: 20-SEP-06 00:00
Preparation Method...: 8330

DCL Sample Name...: **06E04365MS**
Date Printed.....: 06-OCT-06 12:58

DCL Analysis Group: G069100F
Analysis Method...: SW8330-14
Instrument Type...: HPLC
Instrument ID.....: LC08
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
1,3,5-Trinitrobenzene	25-SEP-06 23:40	ND	3.29	3.25	101.	50.0/125.	
1,3-Dinitrobenzene	25-SEP-06 23:40	ND	3.13	3.25	96.3	50.0/125.	
2,4,6-Trinitrotoluene	25-SEP-06 23:40	ND	5.92	6.49	91.2	50.0/125.	
2,4-Dinitrotoluene	25-SEP-06 23:40	ND	3.14	3.25	96.6	50.0/125.	
2,6-Dinitrotoluene	25-SEP-06 23:40	ND	6.39	6.49	98.5	50.0/125.	
2-Amino-4,6-Dinitrotoluene	25-SEP-06 23:40	ND	6.29	6.49	96.9	50.0/125.	
2-Nitrotoluene	25-SEP-06 23:40	ND	12.6	13.0	97.1	50.0/125.	
3-Nitrotoluene	25-SEP-06 23:40	ND	12.4	13.0	95.5	50.0/125.	
4-Amino-2,6-Dinitrotoluene	25-SEP-06 23:40	ND	7.27	6.49	112.	50.0/125.	
4-Nitrotoluene	25-SEP-06 23:40	ND	12.3	13.0	94.8	50.0/125.	
HMX	25-SEP-06 23:40	ND	6.14	6.49	94.6	50.0/125.	
Nitrobenzene	25-SEP-06 23:40	ND	5.90	6.49	90.9	50.0/125.	
RDX	25-SEP-06 23:40	ND	6.41	6.49	98.8	50.0/125.	
Tetryl	25-SEP-06 23:40	ND	5.18	6.49	79.8	50.0/125.	

S068L0BS

DCL Sample Name...: **06E04365MSD**

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
1,3,5-Trinitrobenzene	26-SEP-06 00:14	2.32	71.4	2.81	0.970	35.	0.00/25.0	*
1,3-Dinitrobenzene	26-SEP-06 00:14	2.25	69.2	2.69	0.880	33.	0.00/25.0	*
2,4,6-Trinitrotoluene	26-SEP-06 00:14	4.18	64.4	5.05	1.74	34.	0.00/25.0	*
2,4-Dinitrotoluene	26-SEP-06 00:14	2.23	68.6	2.69	0.910	34.	0.00/25.0	*
2,6-Dinitrotoluene	26-SEP-06 00:14	4.59	70.7	5.49	1.80	33.	0.00/25.0	*
2-Amino-4,6-Dinitrotoluene	26-SEP-06 00:14	4.63	71.3	5.46	1.66	30.	0.00/25.0	*
2-Nitrotoluene	26-SEP-06 00:14	8.79	67.7	10.7	3.81	36.	0.00/25.0	*
3-Nitrotoluene	26-SEP-06 00:14	8.62	66.4	10.5	3.78	36.	0.00/25.0	*
4-Amino-2,6-Dinitrotoluene	26-SEP-06 00:14	5.50	84.7	6.39	1.77	28.	0.00/25.0	*
4-Nitrotoluene	26-SEP-06 00:14	8.51	65.6	10.4	3.79	36.	0.00/25.0	*
HMX	26-SEP-06 00:14	4.38	67.5	5.26	1.76	33.	0.00/25.0	*
Nitrobenzene	26-SEP-06 00:14	4.19	64.6	5.05	1.71	34.	0.00/25.0	*
RDX	26-SEP-06 00:14	4.88	75.2	5.65	1.53	27.	0.00/25.0	*
Tetryl	26-SEP-06 00:14	3.35	51.6	4.27	1.83	43.	0.00/25.0	*

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DATA CHEM LABORATORIES
A Sorenson Company

FORM G (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
SURROGATE SUMMARY

G068M010

Client Name.....: North Dakota State Water Commission
Release Number.....: CCS Sampling

Matrix.....: WATER
Reporting Units.....: ug/L

Date Printed.....: 06-OCT-06 13:00

DCL Analysis Group: G069100F
Analysis Method...: SW8330-14

DCL Prep Group....: G068M010
Preparation Method: 8330

QC Limit Type.....: Method

Surrogate Recoveries

Surr. ID	3,4-Dinitrotoluene											
QC Limits	67.4/115.											
DCL Sample Number	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q
06E04358	12.3	13.0	94.6									
06E04358MS	7.71	13.0	59.3	*								
06E04358MSD	11.7	13.0	90.0									
06E04359	11.8	13.0	90.8									
06E04360	11.9	13.0	91.5									
06E04362	11.5	13.0	88.5									
06E04365	12.0	13.0	92.3									
06E04365MS	11.8	13.0	90.8									
06E04365MSD	8.57	13.0	65.9	*								
06E04366	12.0	13.0	92.3									
06E04367	12.0	13.0	92.3									
06E04368	9.30	13.0	71.5									
06E04369	12.5	13.0	96.2									
06E04370	11.4	13.0	87.7									
06E04373	10.2	13.0	78.5									
BL-250879-1	12.6	13.0	96.9									
QC-250879-1	13.1	13.0	101.									

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EXHIBIT 1 - DATACHEM LABORATORIES DCL Document # 910

NONCONFORMANCE/CORRECTIVE ACTION REPORT (NC/CAR)

(SIDE ONE)

Set ID/Lot No(s). DoE-0590-03 Submitted by: Tom Bosch (Print name)

Account #: 8001 Analysis/Analyte: Explosives - 8330

Client. North Dakota State Water Comm. Section: HPLC

Client Sample #, Affected. ALL Date Initiated: 10/3/06

DCL Sample #s Affected. DoE04358,60,365-70,73 Date of Occurrence. 9/22/06

DESCRIBE NONCONFORMANCE (PROBLEM):

Samples Extracted past Hold Time

WHY DID THE PROBLEM OCCUR (ROOT CAUSE).

Samples logged in after Hold Time elapsed

INITIAL CORRECTIVE ACTION TAKEN.

TECHNICAL DIRECTOR OR SUPERVISOR COMMENTS:

Signature: Date:

PROJECT MANAGER COMMENTS:
(IF APPLICABLE)

☐ Proceed with Analysis ☐ Reprep/Reanalyze samples
☐ Do Not Analyze ☐ Client Notified _____ (Date)
☐ Document event in set comments/case narrative

Signature Date:

QA REVIEW AND APPROVAL

THE AFFECTED ANALYTICAL DATA ARE:

☐ USABLE
☐ USABLE (FLAGGED) *SEE COMMENT
☐ NOT USABLE *SEE COMMENT

ADDITIONAL CORRECTIVE ACTION REQUIRED? ☐ YES ☐ NO

Reviewed by QA. DATE:

QA COMMENTS:

Lab-020 Form Only Revised 5/03

Appendix B-4, EPA Method 8332

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Case Narrative

Method:	SW-846 8332	**Client:**	North Dakota State Water Commission
Analysis:	Nitroglycerin/PETN		
Preparation SOP #:	OL-SW-8332	**Account:**	8001
Analysis SOP#:	OL-SW-8332	**Matrix:**	Water
DCL Set ID's:	06E-0590-04		

General Set Information: This set consisted of eleven water samples, a method blank, a laboratory control sample (LCS), and two sets of a matrix spike and a matrix spike duplicate (MS/MSD).

Method Summary: The samples were extracted using the double salting out procedure prescribed in EPA method 8332. An aliquot of 770 mL of each sample was saturated with salt and extracted twice with acetonitrile by stirring at timed intervals. The acetonitrile extracts were combined and re-extracted with fresh salt water. The final volume of the extract was adjusted to 5 mL for each sample and filtered through a 0.45 um PTFE filter. One part acetonitrile extract was mixed with one part of a 1% calcium chloride solution, and then injected into an HP1050 HPLC equipped with UV detection and a Phenomenex Ultracarb ODS column. The instrument was adjusted to the proper operating parameters and allowed to equilibrate until a stable baseline was established. Initial Calibration standards were analyzed and linear calibration curves were generated from the data. A continuing calibration standard was analyzed at the beginning of sample analysis and after each ten samples and at the end of the analysis. The response of the continuing calibration standard must be within method limits when compared to the initial calibration curve.

Samples and QCs were analyzed under identical conditions as those used for initial and continuing calibration. Quantitation was based on calibration curves using the initial calibration standards. Results were reported in units of µg/L.

Sample Preparation: No anomalies were observed during the preparation of the sample set.

Holding Times: The samples were extracted outside of method required hold times but were analyzed within method required hold times. A Nonconformance/Corrective Action Report (DCL Document# 909) was initiated.

Dilution(s): None.

Quality Control Data:

Blank: No confirmed method analytes were detected in the method blank above half of the CRDL.

Laboratory Control Samples: All recoveries and RPDs were within method limits.

Surrogate Recovery: Surrogate recoveries were acceptable for all samples.

MS/MSD: Matrix spiking was performed on samples 06E04358 and 06E04365 (client samples 13102 and 13087, respectively. All recoveries and RPDs were within method limits.

Instrument QC: All initial and continuing calibration verification samples met method criteria.

NC/CAR: DCL Document# 909 (see holding times above).

Miscellaneous Comments: The instrument stopped before the entire sequence was completed. An additional CCV was analyzed and the sequence completed the following day.

Confirmation Analyses: Any sample with a positive result above the MDL was qualitatively analyzed for confirmation on a second column. For samples requiring confirmation, one part acetonitrile extract was mixed with one part of a 1% calcium chloride solution, then injected into an HP1050 HPLC equipped with UV detection and Phenomenex Synergi Polar-RP column. The instrument was adjusted to the proper operating parameters and allowed to equilibrate until a stable baseline was established. A CCV standard was run to establish retention times and a standard at the reporting limits was run to verify low concentration sensitivity. The second column analyses were used for qualitative confirmation of analytes based on retention time. When a positive result is confirmed, the initial result of the two analyses is reported.

Tom Bosch 10/31/06

Tom Bosch Date

EXHIBIT 1 - DATACHEM LABORATORIES DCL Document # 909

NONCONFORMANCE/CORRECTIVE ACTION REPORT (NC/CAR)

(SIDE ONE)

Set ID/Lot No(s): 06E-0590-01 Submitted by: Tom Boscett (Print name)

Account #: 8001 Analysis/Analyte: NITROGLYCERIN; PETN - 8332

Client: NORTH DAKOTA STATE WATER COMM. Section: HPLC

Client Sample #, Affected: ~~Not~~ ALL Date Initiated: 10/3/06

DCL Sample #s Affected: 06E04358,60,2,65-70,73 Date of Occurrence: 9/22/06

DESCRIBE NONCONFORMANCE (PROBLEM):

SAMPLES EXTRACTED PAST HOLD TIME.

WHY DID THE PROBLEM OCCUR (ROOT CAUSE):

SAMPLES LOGGED IN AFTER HOLD TIME ELAPSED

INITIAL CORRECTIVE ACTION TAKEN:

New personell Training issues. Will train to watch for sampling dates

TECHNICAL DIRECTOR OR SUPERVISOR COMMENTS:

The project manager and/or sample receiving need to indicate why the samples were not logged in.

Signature: Richard Wade Date: 10/3/06

PROJECT MANAGER COMMENTS:

(IF APPLICABLE) Lets all pay Attention To Sample Dates

☐ Proceed with Analysis ☐ Reprep/Reanalyze samples

☐ Do Not Analyze ☐ Client Notified _____ (Date)

☐ Document event in set comments/case narrative

Signature Kevin Griffith Date: 10-6-06

QA REVIEW AND APPROVAL

THE AFFECTED ANALYTICAL DATA ARE:

☑ USABLE

☐ USABLE (FLAGGED) *SEE COMMENT

☐ NOT USABLE *SEE COMMENT

ADDITIONAL CORRECTIVE ACTION REQUIRED? ☐ YES ☐ NO

Reviewed by QA:

QA COMMENTS:

DATE: 10-6-06

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LABORATORIES, INC.

Analytical Results

Data Package Table of Contents

Information pertaining to this data package is divided into the four categories listed below. If applicable, a Case Narrative immediately precedes this Table of Contents and contains pertinent information about this data package.

DATA CHEM LABORATORIES
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COVER PAGE

OCT 0 6 2006

ANALYTICAL REPORT FOR
North Dakota State Water Commission

Phone(703) 328-2739 Fax(701) 328-3696

Form COVER-V1.4
10020615544343

G068L026

DCL Report Group...: 06E-0590-04

Date Printed.....: 02-OCT-06 15:54

Project Protocol #: P0186001
Client Ref Number.: CCS Sampling
Release Number....: CCS Sampling

Analysis Method(s): 8332

North Dakota State Water Commission
Attention: W.M. Schuh
900 East Boulevard
Bismarck, ND 58505

Client Sample Name	Laboratory Sample Name	Date Sampled	Date Received
Method Blank	BL-250880-1	NA	NA
LCS	QC-250880-1	NA	NA
13102	06E04358	11-SEP-06	15-SEP-06
13102	06E04358MS	11-SEP-06	15-SEP-06
13102	06E04358MSD	11-SEP-06	15-SEP-06
13102|FIELD DUP	06E04373	12-SEP-06	15-SEP-06
FIELD BLANK	06E04359	13-SEP-06	15-SEP-06
13086	06E04360	11-SEP-06	15-SEP-06
13101	06E04362	11-SEP-06	15-SEP-06
13087	06E04365	11-SEP-06	15-SEP-06
13087	06E04365MS	12-SEP-06	15-SEP-06
13087	06E04365MSD	12-SEP-06	15-SEP-06
13097	06E04366	12-SEP-06	15-SEP-06
13098	06E04367	12-SEP-06	15-SEP-06
RESERVOIR|CAMP CROFTON	06E04368	12-SEP-06	15-SEP-06
SOUTH SPRING	06E04369	12-SEP-06	15-SEP-06
SOUTH SPRING|FIELD DUP	06E04370	12-SEP-06	15-SEP-06

Tom Bosch — 10.2.06
Analyst: Thomas N. Bosch — Date

[signature] — 10/02/06
Reviewer: Thomas T McKay — Date

Richard W. Wade — 10/03/06
Lab Supervisor: Richard W. Wade — Date

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01

DATA CHEM
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FORM H (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE GROUP COMMENTS

G068L026

DCL Report Group...: 06E-0590-04
Date Printed.....: 02-OCT-06 15:54

Client Name...: North Dakota State Water Commission

Release Number....: CCS Sampling

Sample Group Comments

See narrative for comments.

General Information

The DCL QC Database maintains all numerical figures which are input from the pertinent data source. These data have not been rounded to significant figures nor have they been moisture corrected. Reports generated from the system, however, list data which have been rounded to the number of significant figures requested by the client or deemed appropriate for the method. This may create minor discrepancies between data which appear on the QC Summary Forms (Forms B-G) and those that would be calculated from rounded analytical results. Additionally, if a moisture correction is performed, differences will be observed between the QC data and the surrogate data reported on Form A (or other report forms) and corresponding data reported on QC Summary Forms. In these cases, the Form A will indicate the "Report Basis" as well as the moisture value used for making the correction.

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Report generation options: BX

Result Symbol Definitions

ND - Not Detected above the MDL (LLD or MDC for radiochemistry).
** - No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U - Not Detected above the MDL (LLD or MDC for radiochemistry).
B - For organic analyses the qualifier indicates that this analyte was found in the method blank. For inorganic analyses the qualifier signifies the value is between the MDL and PQL.
J - For organic analyses the qualifier indicates that the value is between the MDL and the PQL. It is also used for indicating an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

QC Flag Symbol Definitions

* - Parameter outside of specified QC limits.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0BZ

Date Printed.....: 02-OCT-06 15:54

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068P017
Date Prepared.....: 21-SEP-06 00:00
Preparation Method...: 8332
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

Client Sample Name: **13102**
DCL Sample Name...: **06E04358**
DCL Report Group..: **06E-0590-04**

Matrix.....: WATER
Date Sampled.....: 11-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Analysis Group: G069100C
Analysis Method...: 8332
Instrument Type...: HPLC
Instrument ID.....: LC03
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
PETN	28-SEP-06 17:25	0.480	ND		U	1	0.97
Nitroglycerin	28-SEP-06 17:25	0.141	ND		U	1	0.97

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0C2

Date Printed.....: 02-OCT-06 15:54

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

Client Sample Name: 13102|FIELD DUP
DCL Sample Name...: 06E04373
DCL Report Group..: 06E-0590-04

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Preparation Group: G068P017
Date Prepared.....: 21-SEP-06 00:00
Preparation Method...: 8332
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G069100C
Analysis Method...: 8332
Instrument Type...: HPLC
Instrument ID.....: LC03
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
PETN	28-SEP-06 19:15	0.480	ND		U	1	0.97
Nitroglycerin	28-SEP-06 19:15	0.141	ND		U	1	0.97

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0C3

Date Printed.....: 02-OCT-06 15:54

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068P017
Date Prepared.....: 21-SEP-06 00:00
Preparation Method...: 8332
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

Client Sample Name: **FIELD BLANK**
DCL Sample Name....: **06E04359**
DCL Report Group...: **06E-0590-04**

Matrix.....: WATER
Date Sampled.....: 13-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Analysis Group: G069100C
Analysis Method...: 8332
Instrument Type...: HPLC
Instrument ID.....: LC03
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
PETN	28-SEP-06 19:51	0.480	ND		U	1	0.97
Nitroglycerin	28-SEP-06 19:51	0.141	ND		U	1	0.97

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
10020615544343

S068L0C4

SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 02-OCT-06 15:54

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068P017
Date Prepared.....: 21-SEP-06 00:00
Preparation Method...: 8332
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

Client Sample Name: **13086**
DCL Sample Name...: **06E04360**
DCL Report Group..: **06E-0590-04**

Matrix.....: WATER
Date Sampled.....: 11-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: ☒ As Received ☐ Dried

DCL Analysis Group: G069100C
Analysis Method...: 8332
Instrument Type...: HPLC
Instrument ID.....: LC03
Column Type.....: Ultracarb ODS
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
PETN	28-SEP-06 20:28	0.480	ND		U	1	0.97
Nitroglycerin	28-SEP-06 20:28	0.141	ND		U	1	0.97

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0C5

Date Printed.....: 02-OCT-06 15:54

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068P017
Date Prepared.....: 21-SEP-06 00:00
Preparation Method...: 8332
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

Client Sample Name: **13101**
DCL Sample Name...: **06E04362**
DCL Report Group..: **06E-0590-04**

Matrix.....: WATER
Date Sampled.....: 11-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: ☒ As Received ☐ Dried

DCL Analysis Group: G069100C
Analysis Method...: 8332
Instrument Type...: HPLC
Instrument ID.....: LC03
Column Type.....: Ultracarb ODS
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
PETN	28-SEP-06 21:04	0.480	ND		U	1	0.97
Nitroglycerin	28-SEP-06 21:04	0.141	ND		U	1	0.97

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0C6

Date Printed.....: 02-OCT-06 15:54

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068P017
Date Prepared.....: 21-SEP-06 00:00
Preparation Method...: 8332
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

Client Sample Name: **13087**
DCL Sample Name...: **06E04365**
DCL Report Group..: **06E-0590-04**

Matrix.....: WATER
Date Sampled.....: 11-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: ☒ As Received ☐ Dried

DCL Analysis Group: G069100C
Analysis Method...: 8332
Instrument Type...: HPLC
Instrument ID.....: LC03
Column Type.....: Ultracarb ODS
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
PETN	28-SEP-06 21:41	0.480	ND		U	1	0.97
Nitroglycerin	28-SEP-06 21:41	0.141	ND		U	1	0.97

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DATA CHEM
LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0C9

Date Printed.....: 02-OCT-06 15:54

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068P017
Date Prepared.....: 21-SEP-06 00:00
Preparation Method...: 8332
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

Client Sample Name: **13097**
DCL Sample Name...: **06E04366**
DCL Report Group..: **06E-0590-04**

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: ☒ As Received ☐ Dried

DCL Analysis Group: G069100C
Analysis Method...: 8332
Instrument Type...: HPLC
Instrument ID.....: LC03
Column Type.....: Ultracarb ODS
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
PETN	29-SEP-06 00:07	0.480	ND		U	1	0.97
Nitroglycerin	29-SEP-06 00:07	0.141	ND		U	1	0.97

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DATA CHEM
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0CB

Date Printed.....: 02-OCT-06 15:54

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068P017
Date Prepared.....: 21-SEP-06 00:00
Preparation Method...: 8332
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

Client Sample Name: **13098**
DCL Sample Name...: **06E04367**
DCL Report Group...: **06E-0590-04**

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: ☒ As Received ☐ Dried

DCL Analysis Group: G069100C
Analysis Method...: 8332
Instrument Type...: HPLC
Instrument ID.....: LC03
Column Type.....: Ultracarb ODS
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
PETN	29-SEP-06 00:43	0.480	ND		U	1	0.97
Nitroglycerin	29-SEP-06 00:43	0.141	ND		U	1	0.97

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DATA CHEM
LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0CC

Date Printed.....: 02-OCT-06 15:54

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

DCL Preparation Group: G068P017
Date Prepared.....: 21-SEP-06 00:00
Preparation Method...: 8332
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

Client Sample Name: **RESERVOIR|CAMP CROFTON**
DCL Sample Name...: **06E04368**
DCL Report Group..: **06E-0590-04**

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Analysis Group: G069100C
Analysis Method...: 8332
Instrument Type...: HPLC
Instrument ID.....: LC03
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
PETN	29-SEP-06 01:19	0.480	ND		U	1	0.97
Nitroglycerin	29-SEP-06 01:19	0.141	ND		U	1	0.97

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
10020615544343
Page 12

S068L0CD

SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 02-OCT-06 15:54

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

Client Sample Name: **SOUTH SPRING**
DCL Sample Name...: **06E04369**
DCL Report Group..: **06E-0590-04**

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Preparation Group: G068P017
Date Prepared.....: 21-SEP-06 00:00
Preparation Method...: 8332
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G069100C
Analysis Method...: 8332
Instrument Type...: HPLC
Instrument ID.....: LC03
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
PETN	29-SEP-06 18:24	0.480	ND		U	1	0.97
Nitroglycerin	29-SEP-06 18:24	0.141	ND		U	1	0.97

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S068L0CF

Date Printed.....: 02-OCT-06 15:54

Client Name.....: North Dakota State Water Commission
Client Ref Number....: CCS Sampling
Sampling Site.....: 1856
Release Number.....: CCS Sampling

Date Received.....: 15-SEP-06 00:00

Client Sample Name: **SOUTH SPRING|FIELD DUP**
DCL Sample Name...: **06E04370**
DCL Report Group..: **06E-0590-04**

Matrix.....: WATER
Date Sampled.....: 12-SEP-06 00:00
Reporting Units...: ug/L
Report Basis.....: [X] As Received [ ] Dried

DCL Preparation Group: G068P017
Date Prepared.....: 21-SEP-06 00:00
Preparation Method...: 8332
Aliquot Weight/Volume: 770 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G069100C
Analysis Method...: 8332
Instrument Type...: HPLC
Instrument ID.....: LC03
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	PQL
PETN	29-SEP-06 19:00	0.480	ND		U	1	0.97
Nitroglycerin	29-SEP-06 19:00	0.141	ND		U	1	0.97

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FORM B (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)

S068M03P

Client Name.....: North Dakota State Water Commission
Release Number.....: CCS Sampling

Matrix.....: WATER
Reporting Units.....: ug/L

DCL Preparation Group: G068P017
Date Prepared.....: 21-SEP-06 00:00
Preparation Method...: 8332

DCL Sample Name...: QC-250880-1
Date Printed.....: 03-OCT-06 11:39

DCL Analysis Group: G069100C
Analysis Method...: OL-SW-8332
Instrument Type...: HPLC
Instrument ID.....: LC03
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
PETN	28-SEP-06 16:49	26.0	23.4	90.1	65.0/125.	
Nitroglycerin	28-SEP-06 16:49	26.0	21.0	80.9	65.0/125.	

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FORM C (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
BLANK SAMPLE

S068M03N

Client Name.....: North Dakota State Water Commission
Release Number.....: CCS Sampling

Matrix.....: WATER
Reporting Units.....: ug/L

DCL Preparation Group: G068P017
Date Prepared.....: 21-SEP-06 00:00
Preparation Method...: 8332

DCL Sample Name...: BL-250880-1
Date Printed.....: 03-OCT-06 11:42

DCL Analysis Group: G069100C
Analysis Method...: 8332
Instrument Type...: HPLC
Instrument ID.....: LC03
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Result	MDL	CRDL
PETN	28-SEP-06 16:12	ND	0.480	0.97
Nitroglycerin	28-SEP-06 16:12	ND	0.141	0.97

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FORM F (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE

S068L0C0

Client Name.....: North Dakota State Water Commission
Release Number.....: CCS Sampling

Matrix.....: WATER
Reporting Units.....: ug/L

DCL Preparation Group: G068P017
Date Prepared.....: 21-SEP-06 00:00
Preparation Method...: 8332

DCL Sample Name...: **06E04358MS**
Date Printed.....: 02-OCT-06 15:54

DCL Analysis Group: G069100C
Analysis Method...: OL-SW-8332
Instrument Type...: HPLC
Instrument ID.....: LC03
Column Type.....: Ultracarb ODS
[X] Primary
[ ] Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
PETN	28-SEP-06 18:02	ND	23.2	26.0	89.2	65.0/125.	
Nitroglycerin	28-SEP-06 18:02	ND	19.9	26.0	76.8	65.0/125.	

S068L0C1

DCL Sample Name...: **06E04358MSD**

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
PETN	28-SEP-06 18:38	22.4	86.1	22.8	0.809	3.6	0.00/35.0	
Nitroglycerin	28-SEP-06 18:38	21.1	81.2	20.5	1.15	5.6	0.00/35.0	

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FORM F (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE

S068L0C7

Client Name.....: North Dakota State Water Commission
Release Number.....: CCS Sampling

Matrix.....: WATER
Reporting Units.....: ug/L

DCL Preparation Group: G068P017
Date Prepared.....: 21-SEP-06 00:00
Preparation Method...: 8332

DCL Sample Name....: **06E04365MS**
Date Printed.....: 02-OCT-06 15:54

DCL Analysis Group: G069100C
Analysis Method...: OL-SW-8332
Instrument Type...: HPLC
Instrument ID.....: LC03
Column Type.....: Ultracarb ODS
☒ Primary
☐ Confirmation

QC Limit Type.....: Method

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
PETN	28-SEP-06 22:17	ND	22.3	26.0	85.7	65.0/125.	
Nitroglycerin	28-SEP-06 22:17	ND	20.8	26.0	80.1	65.0/125.	

S068L0C8

DCL Sample Name....: **06E04365MSD**

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
PETN	28-SEP-06 22:54	21.6	83.1	21.9	0.696	3.2	0.00/35.0	
Nitroglycerin	28-SEP-06 22:54	20.6	79.3	20.7	0.219	1.1	0.00/35.0	

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FORM G (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63G-V1.4
10020615544343
Page 18

G068P017

QUALITY CONTROL DATA SHEET
SURROGATE SUMMARY

Client Name.....: North Dakota State Water Commission
Release Number.....: CCS Sampling

Matrix.....: WATER
Reporting Units.....: ug/L

Date Printed.....: 02-OCT-06 15:54

DCL Analysis Group: G069100C
Analysis Method...: OL-SW-8332

DCL Prep Group....: G068P017
Preparation Method: 8332

QC Limit Type.....: Method

Surrogate Recoveries

Surr. ID	1-Nitronaphthalene											
QC Limits	65.0/125.											
DCL Sample Number	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q
06E04358	11.5	13.0	88.6									
06E04358MS	11.6	13.0	89.4									
06E04358MSD	11.2	13.0	86.3									
06E04359	12.4	13.0	95.2									
06E04360	11.6	13.0	89.0									
06E04362	12.2	13.0	94.2									
06E04365	12.2	13.0	93.8									
06E04365MS	11.5	13.0	88.8									
06E04365MSD	11.1	13.0	85.4									
06E04366	11.3	13.0	87.4									
06E04367	10.8	13.0	83.1									
06E04368	11.4	13.0	87.7									
06E04369	8.76	13.0	67.5									
06E04370	11.5	13.0	88.8									
06E04373	11.5	13.0	88.4									
BL-250880-1	11.4	13.0	87.4									
QC-250880-1	11.2	13.0	86.4									

OUE-0590

0905

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Mycology Chain-of-Custody

Page _____ of _____

Client Name & Address:
William Schuh
ND Water Commission
900 E Boulevard
Bismarck, ND 58505

Project No.: 1856

Project Name: CCS water Quality

Phone: 701-328-3944

FAX:

Sampler: *(Signature)* WM Schuh

e-mail: bschuh@state.nd.gov

Requested Turn Around Time:
☐ Rush (Same Day)
☐ 24 Hours (Next Day)
☐ 2-5 Days (Regular)
☐ Other
(Rush is email or fax data)

Sample ID	Date	Sample Location Description	Preservation Code	Sample Type Code	Analyses Requested: Air, Microscopic	Air, Culture	Bulk, Microscopic	Bulk, Culture	Dust, Microscopic	Dust, Culture	Surface Microscopic	Surface, Culture	Wall Check	Culture Speciation	Volume/Area	Remarks
Reservoir	9/12	Camp Creation South													2L	OUE-04236 (3L)
		3L (8270C, ~~8310~~, 8330, 8332)													2L	OUE-04237 (2 vol)
		2 vial (8260B)														
South Spring	9/12	3L (8270C, 8330, 8332)													2L	OUE-04238 (3L)
		2 vial (8260B)													2L	OUE-04239 (2 vol)
South Spring (Field Duplicate)	9/12	11														

Sample Type Codes:
A) Air
D) Dust
T) Tape
S) Surface Swab
W) Water
WC) Wall Check
O) Other

Preservation Codes:
1) Temp at ____oC
2) Sterile Saline
3) Buffer _____

Sample Disposal: ☐ Return to Client ☐ Archive for ____ Months ☐ Disposal by Lab (fees may be assessed for samples retained longer than 3 months)

Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time
WM Schuh	[signature]	9/14	1:30
Relinquished by: *(Signature)*	Received by: *(Signature)* Shannon Cowley	9/15/12	1015
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time

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0906

Page _____ of _____

Client Name & Address:	Project No.:
William Schuh ND Water Commission 900 E Blvd Bismarck ND 58505	1856
Phone: 701-328-2754	Project Name: CCS Sampling
FAX:	Sampler: *(Signature)*
e-mail:	

Requested Turn Around Time:
☐ Rush (Same Day) ☐ 24 Hours (Next Day)
☐ 2-5 Days (Regular) ☐ Other
(Rush is email or fax data)

Sample Type Codes:
A) Air
D) Dust
T) Tape
S) Surface Swab
W) Water
WC) Wall Check
O) Other

Preservation Codes:
1) Temp at ____oC
2) Sterile Saline
3) Buffer _____

Sample ID	Date	Sample Location Description	Preservation Code	Sample Type Code	Air, Microscopic	Air, Culture	Bulk, Microscopic	Bulk, Culture	Dust, Microscopic	Dust, Culture	Surface Microscopic	Surface, Culture	Wall Check	Culture Speciation	Volume/Area	Remarks
13087	9/12	~~1L~~ 9L (8270C, 8330, 8332) +MS, MSD														
		+2 vials 8260B														
13086	9/12	1L 8270C														

Sample Disposal: ☐ Return to Client ☐ Archive for ____ Months ☐ Disposal by Lab (fees may be assessed for samples retained longer than 3 months)

Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time
Wm Schuh		9/14	1:30
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time
	Shanna Conley	9/15/00	1015
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time

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Client Name & Address: Bill Schuh, NJ Water Commission, 100 East Bay, Bridgeton NJ 8302

Phone: 201-460-2739

FAX:

e-mail:

Project No.: 1850

Project Name: CLS - Sampling

Sampler: *(Signature)* Bill Schuh

Requested Turn Around Time:
☐ Rush (Same Day) ☐ 24 Hours (Next Day)
☐ 2-5 Days (Regular) ☐ Other
(Rush is email or fax data)

Analyses Requested

Sample ID	Date	Sample Location Description	Preservation Code	Sample Type Code	Air, Microscopic	Air, Culture	Bulk, Microscopic	Bulk, Culture	Dust, Microscopic	Dust, Culture	Surface Microscopic	Surface, Culture	Wall Check	Culture Speciation	Volume/Area	Remarks
13086	9/11	BLK 2L (8330, 8332)														
13097	9/12	3L (8270C, 8330, 8332)														
		2 vials (8260B)														
13094	9/12	3L (8270C, 8330, 8332)														
		2 vials 8260B														

Sample Type Codes:
A) Air
D) Dust
T) Tape
S) Surface Swab
W) Water
WC) Wall Check
O) Other

Preservation Codes:
1) Temp at ____oC
2) Sterile Saline
3) Buffer _____

Sample Disposal: ☐ Return to Client ☐ Archive for ____ Months ☐ Disposal by Lab (fees may be assessed for samples retained longer than 3 months)

		Date	Time
Relinquished by: *(Signature)*	Received by: *(Signature)*	9/14	1:30
Relinquished by: *(Signature)*	Received by: *(Signature)* Shannon Coulter	9/15/00	10:15
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time

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Page _____ of _____

Client Name & Address:
Bill Schuh
ND water commission
900 East Blvd
Bismarck ND 58505

Project No.: 1856

Project Name: C&S Sampling

Phone: 701-328-2734

FAX:

e-mail:

Sampler: *(Signature)*

Requested Turn Around Time:
☐ Rush (Same Day) ☐ 24 Hours (Next Day)
☐ 2-5 Days (Regular) ☐ Other
(Rush is email or fax data)

Analyses Requested

Sample ID	Date	Sample Location Description	Preservation Code	Sample Type Code	Air, Microscopic	Air, Culture	Bulk, Microscopic	Bulk, Culture	Dust, Microscopic	Dust, Culture	Surface Microscopic	Surface, Culture	Wall Check	Culture Speciation	Volume/Area	Remarks
13101	9/11	3L (8270C, 6330, 6332)														
		2 vials 8260B														
13103		1L 8270C														
13104		1 1														
13102	9/11	3L (8270C, 6330, 6332)														

Sample Type Codes:
A) Air
D) Dust
T) Tape
S) Surface Swab
W) Water
WC) Wall Check
O) Other

Preservation Codes:
1) Temp at ____oC
2) Sterile Saline
3) Buffer _____

Sample Disposal: ☐ Return to Client ☐ Archive for ____ Months ☐ Disposal by Lab (fees may be assessed for samples retained longer than 3 months)

Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time
		9/19/11	1:30
Relinquished by: *(Signature)*	Received by: *(Signature)* Shannon Conley	9/18/11	1045
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time

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QUE-0590

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Mycology Chain-of-Custody

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Client Name & Address:	Project No.:	Preservation Code	Sample Type Code	Analyses Requested										Volume/Area	Sample Type Codes: A) Air D) Dust T) Tape S) Surface Swab W) Water WC) Wall Check O) Other Preservation Codes: 1) Temp at ____oC 2) Sterile Saline 3) Buffer _____
Bill Schuck NDSWC 900 EBUD Bismarck ND 58	1856			Air, Microscopic	Air, Culture	Bulk, Microscopic	Bulk, Culture	Dust, Microscopic	Dust, Culture	Surface Microscopic	Surface, Culture	Wall Check	Culture Speciation		
Phone: 701-328-2739	Project Name: CGS-Sampling														
FAX:	Sampler: (Signature)														
e-mail:															

Requested Turn Around Time:
☐ Rush (Same Day) ☐ 24 Hours (Next Day)
☐ 2-5 Days (Regular) ☐ Other
(Rush is email or fax data)

Sample ID	Date	Sample Location Description	Preservation Code	Sample Type Code	Air, Microscopic	Air, Culture	Bulk, Microscopic	Bulk, Culture	Dust, Microscopic	Dust, Culture	Surface Microscopic	Surface, Culture	Wall Check	Culture Speciation	Volume/Area	Remarks
1302	9/11/06	3L (8270C, 3330, 8332)													1) ~~QUE04231~~ (40)	
Field Duplicate																
1302		3L Extra sample Discretionary - MS/MSD if Req														
D FB	9/13/06	Field Blank 3L (8270C, 8330, 8332) 2 vials 8260B													2) ~~QUE04232~~ (40) (15)	

Sample Disposal: ☐ Return to Client ☐ Archive for _____ Months ☐ Disposal by Lab (fees may be assessed for samples retained longer than 3 months)

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
		9/14/06	1:30
Relinquished by: (Signature) ~~Shannon Coulter~~	Received by: (Signature) Shannon Coulter	9/15/06	10:15
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

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Client Name & Address: Bill Schuh NDSWC 900 E Bud Bismarck ND

Phone: 701-~~[illegible]~~

FAX: 328-2739

e-mail:

Project No.: 185-C

Project Name: CCS sampling

Sampler: *(Signature)*

Requested Turn Around Time:
☐ Rush (Same Day) ☐ 24 Hours (Next Day)
☐ 2-5 Days (Regular) ☐ Other
(Rush is email or fax data)

Sample ID	Date	Sample Location Description	Preservation Code	Sample Type Code	Air, Microscopic	Air, Culture	Bulk, Microscopic	Bulk, Culture	Dust, Microscopic	Dust, Culture	Surface Microscopic	Surface, Culture	Wall Check	Culture Speciation	Volume/Area	Remarks
13102	9/11	5 vials 8260B + MSMSD													(4) ~~OUE-04253~~	(5)
13086	9/11	2 vials 8260B													(4) ~~OUE-04234~~	(2)
Field Blank	9/13	3 vials 8260B														
TRIP Blank		2 vials													~~OUE-04235~~	(2)

Sample Type Codes:
A) Air
D) Dust
T) Tape
S) Surface Swab
W) Water
WC) Wall Check
O) Other

Preservation Codes:
1) Temp at ____oC
2) Sterile Saline
3) Buffer _____

Sample Disposal: ☑ Return to Client ☐ Archive for ____ Months ☐ Disposal by Lab (fees may be assessed for samples retained longer than 3 months)

Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time
[signature]	[signature]	9/14/13	1015
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time

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Field Chain-of-Custody Record

Page _____ of _____

Client Name & Address:	Project No.:	Preservation Code	Sample Matrix Code	Sample for Matrix QC	Analyses Requested								No. of Containers	Matrix Codes: W) Water B) Bulk L) Liquid F) Filter S) Soil G) Wipe C) Solid M) Media Preservation Codes: 1) Cool to 4°C 2) HCl to pH<2, 4°C 3) H_2SO_4 to pH≤2, 4°C 4) HNO_3 to pH<2, 4°C 5) NaOH to pH>12, 4°C 6) ZnOAc/NaOH to pH>9, 4°C
Bill Schuh NDSWC	1856				8270 C	8330	8330	8260B						Remarks
Phone:	Project Name: CCS Sampling													
FAX:	Sampler: *(Signature)*													
e-mail:														

Field Sample Number	Site ID	Date	Time	Depth	DCL Sample Number												Remarks
1307-13102	~~Field Dup~~	9/11/06			DCL043588			W		X	X	X	X				1L 5voa, 9L
FB		9/13/06				59		W		X	X	X	X				5voa, 3L
13086		9/11/06				60		W		X	X	X	X				3 ~~voa~~, ~~5~~ 2 voa, 3L
TripBlank						~~61~~	SC	W									2 voa
13101		9/11/06				62		W		X	X	X	X				2voa, 3L
13103		9/11/06				103		W		X							1L
13104		9/11/06				64		W		X							1L
13087		9/11/06				105		W		X	X	X					9L-HEMS/MSD
~~13088~~		~~9/12/06~~						W		X	X	X	X				~~2voa, 3L~~
13097		9/12/06				106		W		X	X	X	X				2voa, 3L

Possible Hazard Identification	Sample Disposal	Requested Turn Around Time
☐ Non-Hazard ☐ Skin Irritant ☐ Rad	☐ Return to Client ☐ Archive for _____ Months	☐ 2 Days (Rush) ☐ 7 Days ☐ 21 Days
☐ Flammable ☐ Poison ☐ Unknown	☐ Disposal by Lab	☐ 3 Days (Rush) ☐ 14 Days ☐ Other
	(a fee may be assessed if samples are retained longer than 3 months)	(Rush is email or fax data unless previously approved)

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Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time	DataChem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City, UT 84123 Phone: (800) 356-9135 Phone: (801) 266-7700 FAX: (801) 268-9992 www.datachem.com
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CLE-0570

DataChem Laboratories, Inc.
Field Chain-of-Custody Record

Page _____ of _____

Client Name & Address:	Project No.:	Preservation Code	Sample Matrix Code	Sample for Matrix QC	Analyses Requested								No. of Containers	Matrix Codes: W) Water B) Bulk L) Liquid F) Filter S) Soil G) Wipe C) Solid M) Media Preservation Codes: 1) Cool to 4°C 2) HCl to pH<2, 4°C 3) H_2SO_4 to pH<2, 4°C 4) HNO_3 to pH<2, 4°C 5) NaOH to pH>12, 4°C 6) ZnOAc/NaOH to pH>9, 4°C
Bill Schuch NDSWC	1856 Project Name: CCS Sampling Sampler: *(Signature)*				8270C	8260	8330	8260B						
Phone:														
FAX:														
e-mail:														

Field Sample Number	Site ID	Date	Time	Depth	DQL Sample Number										Remarks
13098		9/12/08			CLE 04367		W		X	X	X	X			2 VOA, 3L
Reservoir	Camp Crafton South	9/12/08				68	W		X	X	X	X			2 VOA, 3L
SouthSpring		9/12/08				69	W		X	X	X	X			2 VOA, 3L
SouthSpring	Field Dup	9/12/08				70	W		X	X	X	X			2 VOA, 3L
13102	Field Dup	9/12/08			7371		W		X	X	X	X			3L

Possible Hazard Identification
☐ Non-Hazard ☐ Skin Irritant ☐ Rad
☐ Flammable ☐ Poison ☐ Unknown

Sample Disposal
☐ Return to Client ☐ Archive for _____ Months
☐ Disposal by Lab
(a fee may be assessed if samples are retained longer than 3 months)

Requested Turn Around Time
☐ 2 Days (Rush) ☐ 7 Days ☐ 21 Days
☐ 3 Days (Rush) ☐ 14 Days ☐ Other
(Rush is email or fax data unless previously approved)

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Earliest Sampling Date: 11-Sep-2006

DataChem Laboratories
CHAIN-OF-CUSTODY

Results due by: 20-Sep-2006

Project/Job/Task: P0186001 | *Split:* | **Root Set ID:** 06E-0590 * | **Reporting Group** 01

Client: North Dakota State Water Commission | **Account:** 08001

Comments:

Verified: Meredith Erlend 20 Sep 06

Date Sampled	Field ID Number	DCL Sample Name	DCL Sample ID	QC	Matrix	Customer ID 2	Analysis: Volatiles by 8260B	# Bottles
11-Sep-2006	13102	06E04358			WATER		X	3
11-Sep-2006	13102	06E04358MS		MS	WATER		X	1
11-Sep-2006	13102	06E04358MSD		MSD	WATER		X	1
13-Sep-2006	FIELD BLANK	06E04359			WATER		X	5
11-Sep-2006	13086	06E04360			WATER		X	2
11-Sep-2006	13101	06E04362			WATER		X	2
12-Sep-2006	13097	06E04366			WATER		X	2
12-Sep-2006	13098	06E04367			WATER		X	2
12-Sep-2006	RESERVOIR	06E04368			WATER	CAMP CROFTON	X	2
12-Sep-2006	SOUTH SPRING	06E04369			WATER	CAMP CROFTOO	X	2

Shipped 9/22 R 9/24 SC

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Walk-in/ Room/ Shelf/ Fridge Storage Locker	9.22.06 1015	[illegible]	VOA Analysis / Hold 1.4 SE: VOA

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: _____ Lab Notebook No.: _____

Prepared/Analyzed by: _____ Date/Time: _____

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location

Check box if there is a continuation page ☐

Earliest Sampling Date: 11-Sep-2006

DataChem Laboratories
CHAIN-OF-CUSTODY

Results due by: 29-Sep-2006

Project/Job/Task: P0186001 | *Split:* | **Root Set ID:** 06E-0590 * | **Reporting Group** 01

Client: North Dakota State Water Commission | **Account:** 08001

Comments:

Verified: M.Crandell, J.Ellwein 26 SEP

Date Sampled	Field ID Number	DCL Sample Name	DCL Sample ID	QC	Matrix	Customer ID 2	Analysis: Volatiles by 8260B	# Bottles
12-Sep-2006	SOUTH SPRING	06E04370			WATER	FIELD DUP	X	2

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Walk-in/ Room/ Shelf/ Fridge Storage R-24-2 mc	9.22.06 1615		WA Analysis / Storage R-24-2 mc

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: _____ Lab Notebook No.: _____

Prepared/Analyzed by: _____ Date/Time: _____

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location

Check box if there is a continuation page ☐

OUE-0590

DataChem Laboratories, Inc.

Mycology Chain-of-Custody

0905

Page _____ of _____

Client Name & Address:	Project No..	Preservation Code	Sample Type Code	Analyses Requested										Volume/Area	Sample Type Codes: A) Air D) Dust T) Tape S) Surface Swab W) Water WC) Wall Check O) Other Preservation Codes: 1) Temp at ____oC 2) Sterile Saline 3) Buffer _____
				Air, Microscopic	Air, Culture	Bulk, Microscopic	Bulk, Culture	Dust, Microscopic	Dust, Culture	Surface Microscopic	Surface, Culture	Wall Check	Culture Speciation		
William Schuh ND Water Commission 900 E Boulevard Ave Bismarck, ND 58505	1456														
Phone: 701-328-3944	Project Name: CCS water Quality														
FAX:	Sampler: (Signature) WM Schuh														
e-mail: bschuh@state.nd.gov															

Requested Turn Around Time:
☐ Rush (Same Day) ☐ 24 Hours (Next Day)
☐ 2-5 Days (Regular) ☐ Other
(Rush is email or fax data)

Sample ID	Date	Sample Location Description														
Reservoir	9/12	Camp Creation South													W	~~010E04230~~ (3L)
		3L (8270C, ~~8270SIM~~, 8330, 8332)													W	010E04235 (2 vials)
		2 vial (8260B)														
South Spring	9/12	3L (8270C, 8330, 8332)													W	~~010E04238~~ (3L)
		2 vial (8260B)													W	~~010E04239~~ (2 vials)
South Spring (Field Duplicate)	9/12	11														

Sample Disposal: ☐ Return to Client ☐ Archive for ____ Months ☐ Disposal by Lab (fees may be assessed for samples retained longer than 3 months)

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
WM Schuh		9/14	1:30
Relinquished by: (Signature)	Received by: (Signature) Shannon Cowley	9/15/12	1015
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

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CLIENT-0590

RESULTS (COC)

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Mycology Chain-of-Custody

0906

Page _____ of _____

Client Name & Address:	Project No.:
William Schuh ND Water Commission 900 E Boulevard Bismarck ND 58505	1856
Phone: 701-328-2754	Project Name: CCS Sampling
FAX:	Sampler: *(Signature)*
e-mail:	

Requested Turn Around Time:
☐ Rush (Same Day) ☐ 24 Hours (Next Day)
☐ 2-5 Days (Regular) ☐ Other
(Rush is email or fax data)

Sample ID	Date	Sample Location Description	Preservation Code	Sample Type Code	Analyses Requested: Air, Microscopic	Air, Culture	Bulk, Microscopic	Bulk, Culture	Dust, Microscopic	Dust, Culture	Surface Microscopic	Surface, Culture	Wall Check	Culture Speciation	Volume/Area	Remarks
13087	9/12	9L (8270C, 8330, 8332) +MS, MSD														
		+2 vials 8260B														
13086	9/12	1L 8270C														

Sample Type Codes:
A) Air
D) Dust
T) Tape
S) Surface Swab
W) Water
WC) Wall Check
O) Other

Preservation Codes:
1) Temp at ____oC
2) Sterile Saline
3) Buffer _____

Sample Disposal: ☐ Return to Client ☐ Archive for ____ Months ☐ Disposal by Lab (fees may be assessed for samples retained longer than 3 months)

Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time
Wm Schuh		9/14	1:30
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time
	Hanna Conley	9/15/00	1015
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time

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OQE-0590

DataChem Laboratories, Inc.

Mycology Chain-of-Custody

0907

Page _____ of _____

Client Name & Address: Bill Schuh, NJ Dept of Community Affairs, 600 East Blvd, Bismarck, ND 58505

Project No.: 1856

Project Name: CDS - Sampling

Phone: 701-328-2739

FAX:

e-mail:

Sampler: *(Signature)* Bill Schuh

Requested Turn Around Time:
☐ Rush (Same Day) ☐ 24 Hours (Next Day)
☐ 2-5 Days (Regular) ☐ Other
(Rush is email or fax data)

Sample ID	Date	Sample Location Description	Preservation Code	Sample Type Code	Air, Microscopic	Air, Culture	Bulk, Microscopic	Bulk, Culture	Dust, Microscopic	Dust, Culture	Surface Microscopic	Surface, Culture	Wall Check	Culture Speciation	Volume/Area	Remarks
13086	9/11	Blank 2L (8330, 8232)														
13097	9/12	3L (8270C, 8330, 8332) 2 vials (8260B)														
13094	9/12	3L (8270C, 8330, 8332) 2 vials 8260B														

Analyses Requested

Sample Type Codes:
A) Air
D) Dust
T) Tape
S) Surface Swab
W) Water
WC) Wall Check
O) Other

Preservation Codes:
1) Temp at ____oC
2) Sterile Saline
3) Buffer _____

Sample Disposal: ☐ Return to Client ☐ Archive for ____ Months ☐ Disposal by Lab (fees may be assessed for samples retained longer than 3 months)

Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time
Bill Schuh	[illegible]	9/14	1:30
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time
	Shannon Coulter	9/15/00	1015
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time

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Mycology Chain-of-Custody

0908

Page _____ of _____

Client Name & Address:	Project No.:
Bill Schuh ND Water Commission 900 East Blvd Bismarck ND 58505	1854
Phone: 701-328-2734	Project Name: C&S Sampling
FAX:	Sampler: *(Signature)*
e-mail:	

Requested Turn Around Time:
☐ Rush (Same Day) ☐ 24 Hours (Next Day)
☐ 2-5 Days (Regular) ☐ Other
(Rush is email or fax data)

Sample ID	Date	Sample Location Description	Preservation Code	Sample Type Code	Air, Microscopic	Air, Culture	Bulk, Microscopic	Bulk, Culture	Dust, Microscopic	Dust, Culture	Surface Microscopic	Surface, Culture	Wall Check	Culture Speciation	Volume/Area	Remarks
13101	9/11	3L (8270C, 8330, 8332)														
		2 vials 8260B														
13103		1L 8270C														
13104		1 1														
13102	9/11	3L (8270C, 8330, 8332)														

Analyses Requested

Sample Type Codes:
A) Air
D) Dust
T) Tape
S) Surface Swab
W) Water
WC) Wall Check
O) Other

Preservation Codes:
1) Temp at ____oC
2) Sterile Saline
3) Buffer _____

Sample Disposal: ☐ Return to Client ☐ Archive for _____ Months ☐ Disposal by Lab (fees may be assessed for samples retained longer than 3 months)

Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time
		9/14/11	1:30
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time
	Shannon Conley	9/15/11	1045
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time

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QE-0590

DataChem Laboratories, Inc.
Mycology Chain-of-Custody

0909

Page _____ of _____

Client Name & Address:
Bill Schuh
NDSWC
900 EBUD
Bismarck ND 58503

Project No.: 1856

Project Name: CGS-samplings

Phone: 701-328-2739

FAX:

e-mail:

Sampler: *(Signature)*

Requested Turn Around Time:
☐ Rush (Same Day) ☐ 24 Hours (Next Day)
☐ 2-5 Days (Regular) ☐ Other
(Rush is email or fax data)

Sample ID	Date	Sample Location Description	Preservation Code	Sample Type Code	Air, Microscopic	Air, Culture	Bulk, Microscopic	Bulk, Culture	Dust, Microscopic	Dust, Culture	Surface Microscopic	Surface, Culture	Wall Check	Culture Speciation	Volume/Area	Remarks
1302	9/11/06	3L (8270C, 8330, 8332)														~~QE04231~~ (P)
Field Duplicate																
1302		3L Extra sample Discretionary - MS/MSD if Needed														
FB	9/13/06	Field Blank 3L (8270C, 8330, 8332) 2 vials 8260B														~~QE04232~~ (P) (S)

Sample Type Codes:
A) Air
D) Dust
T) Tape
S) Surface Swab
W) Water
WC) Wall Check
O) Other

Preservation Codes:
1) Temp at ____oC
2) Sterile Saline
3) Buffer _____

Sample Disposal: ☐ Return to Client ☐ Archive for _____ Months ☐ Disposal by Lab (fees may be assessed for samples retained longer than 3 months)

Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time
		9/14/06	1:30
Shannon Crosby	Shannon Conley	9/15/06	1015
		Date	Time

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OUE-0590

DataChem Laboratories, Inc.
Mycology Chain-of-Custody

0910

Page _____ of _____

Client Name & Address: Bill Schuh NDSWC 900 E Boul Bismarck ND

Phone: 701-~~663~~

FAX: 328-2739

e-mail:

Project No.: 185-C

Project Name: CCS Samplic

Sampler: *(Signature)*

Requested Turn Around Time:
☐ Rush (Same Day) ☐ 24 Hours (Next Day)
☐ 2-5 Days (Regular) ☐ Other
(Rush is email or fax data)

Sample ID	Date	Sample Location Description	Preservation Code	Sample Type Code	Air, Microscopic	Air, Culture	Bulk, Microscopic	Bulk, Culture	Dust, Microscopic	Dust, Culture	Surface Microscopic	Surface, Culture	Wall Check	Culture Speciation	Volume/Area	Remarks
13102	9/11	5 vials 8260B + MS MSD														~~OUE 07233~~ (5)
13086	9/11	2 vials 8260B														~~OUE 04234~~ (2)
Field Blank	9/13	3 vials 8260B														
TRIP Blank		2 vials														~~OUE 07235~~ (2)

Analyses Requested

Sample Type Codes:
A) Air
D) Dust
T) Tape
S) Surface Swab
W) Water
WC) Wall Check
O) Other

Preservation Codes:
1) Temp at ____oC
2) Sterile Saline
3) Buffer _____

Remarks

Sample Disposal: ☑ Return to Client ☐ Archive for ____ Months ☐ Disposal by Lab (fees may be assessed for samples retained longer than 3 months)

		Date	Time
Relinquished by: *(Signature)*	Received by: *(Signature)*	9/14/13	1015
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time

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DataChem Laboratories, Inc.
Field Chain-of-Custody Record

Page _____ of _____

Client Name & Address:	Project No.:	Preservation Code	Sample Matrix Code	Sample for Matrix QC	Analyses Requested								No. of Containers	Matrix Codes: W) Water B) Bulk L) Liquid F) Filter S) Soil G) Wipe C) Solid M) Media Preservation Codes: 1) Cool to 4°C 2) HCl to pH<2, 4°C 3) H_2SO_4 to pH<2, 4°C 4) HNO_3 to pH<2, 4°C 5) NaOH to pH>12, 4°C 6) ZnOAc/NaOH to pH>9, 4°C
Bill Schuh NDSWC	1856				8270 C	8330	8330	8260B						
Phone:	Project Name: CCS Sampling													
FAX:	Sampler: *(Signature)*													
e-mail:														

Field Sample Number	Site ID	Date	Time	Depth	DCL Sample Number													Remarks
13072-13102	~~Field Dup~~	9/11/06			DCL043558		W		X	X	X	X						6VOA, 5VOA, 9L
FB		9/13/06			59		W		X	X	X	X						5VOA, 3L
13086		9/11/06			60		W		X	X	X	X						~~3VOA~~ 5VOA, ~~5VOA~~, 3L
TripBlank					~~61~~	SC	W											2VOA
13101		9/11/06			62		W		X	X	X	X						2VOA, 3L
13103		9/11/06			63		W		X									1L
13104		9/11/06			64		W		X									1L
13087		9/11/06			65		W		X	X	X				~~2VOA~~, 9L			9L-HEMS/MSD
~~13088~~	~~—~~	~~9/12/06~~					~~W~~		~~X~~	~~X~~	~~X~~	~~X~~						~~2VOA~~, ~~HE~~ 3L
13097		9/12/06			66		W		X	X	X	X						2VOA, 3L

Possible Hazard Identification
☐ Non-Hazard ☐ Skin Irritant ☐ Rad
☐ Flammable ☐ Poison ☐ Unknown

Sample Disposal
☐ Return to Client ☐ Archive for _____ Months
☐ Disposal by Lab
(a fee may be assessed if samples are retained longer than 3 months)

Requested Turn Around Time
☐ 2 Days (Rush) ☐ 7 Days ☐ 21 Days
☐ 3 Days (Rush) ☐ 14 Days ☐ Other
(Rush is email or fax data unless previously approved)

Carrier/Airbill #:

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DUE-0590

DataChem Laboratories, Inc.
Field Chain-of-Custody Record

Page _____ of _____

Client Name & Address:	Project No.:	Preservation Code	Sample Matrix Code	Sample for Matrix QC	Analyses Requested								No. of Containers	Matrix Codes: W) Water, B) Bulk, L) Liquid, F) Filter, S) Soil, G) Wipe, O) Solid, M) Media Preservation Codes: 1) Cool to 4°C, 2) HCl to pH<2, 4°C, 3) H_2SO_4 to pH<2, 4°C, 4) HNO_3 to pH<2, 4°C, 5) NaOH to pH>12, 4°C, 6) ZnOAc/NaOH to pH>9, 4°C
Bill Schuh NDSWC	1856				8270C	8330	8330	8260B						
Phone:	Project Name: CCS Sampling													
FAX:	Sampler: *(Signature)*													
e-mail:														

Field Sample Number	Site ID	Date	Time	Depth	DCL Sample Number											Remarks
13098		9/12/08			DUE 04367		W		X	X	X	X				2 VOA, 3L
Reservoir	Camp Crafton South	9/12/08			68		W		X	X	X	X				2 VOA, 3L
SouthSpring		9/12/08			69		W		X	X	X	X				2 VOA, 3L
SouthSpring	Field Dup	9/12/08			70		W		X	X	X	X				2 VOA, 3L
13102	Field Dup	9/12/08			7371		W		X	X	X	X[5]				3L

Possible Hazard Identification
☐ Non-Hazard ☐ Skin Irritant ☐ Rad
☐ Flammable ☐ Poison ☐ Unknown

Sample Disposal
☐ Return to Client ☐ Archive for _____ Months
☐ Disposal by Lab
(a fee may be assessed if samples are retained longer than 3 months)

Requested Turn Around Time
☐ 2 Days (Rush) ☐ 7 Days ☐ 21 Days
☐ 3 Days (Rush) ☐ 14 Days ☐ Other
(Rush is email or fax data unless previously approved)

Carrier/Airbill #:

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Relinquished by: *(Signature)*	Received by: *(Signature)*	Date	Time

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Earliest Sampling Date: 11-Sep-2006

DataChem Laboratories
CHAIN-OF-CUSTODY

Results due by: 20-Sep-2006

Project/Job/Task: P0186001 | *Split:* | **Root Set ID:** 06E-0590 * | **Reporting Group** 01

Client: North Dakota State Water Commission | **Account:** 08001

Comments:

Verified: Marshall Gylland 20 Sep 06

Date Sampled	Field ID Number	DCL Sample Name	DCL Sample ID	QC	Matrix	Customer ID 2	Analysis: Volatiles by 8260B	# Bottles
11-Sep-2006	13102	06E04358			WATER		X	3
11-Sep-2006	13102	06E04358MS		MS	WATER		X	1
11-Sep-2006	13102	06E04358MSD		MSD	WATER		X	1
13-Sep-2006	FIELD BLANK	06E04359			WATER		X	5
11-Sep-2006	13086	06E04360			WATER		X	2
11-Sep-2006	13101	06E04362			WATER		X	2
12-Sep-2006	13097	06E04366			WATER		X	2
12-Sep-2006	13098	06E04367			WATER		X	2
12-Sep-2006	RESERVOIR	06E04368			WATER	CAMP CROFTON	X	2
12-Sep-2006	SOUTH SPRING	06E04369			WATER	CAMP CROFTOO	X	2

5 4 Q
2-23-1
R 24 SC

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Walk-in/ Room/ Shelf/ Fridge Storage L.64.L	9.22.06 1015		VOA Analysis / Storage L.42.E.1 VOA

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: _____ Lab Notebook No.: _____

Prepared/Analyzed by: _____ Date/Time: _____

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location

Check box if there is a continuation page ☐

Printed 9/19/2006 17:05

Form: COFC1.01-SWV2.30

Earliest Sampling Date: 11-Sep-2006

DataChem Laboratories
CHAIN-OF-CUSTODY

Results due by: 29-Sep-2006

Project/Job/Task: P0186001 | *Split:* | **Root Set ID:** 06E-0590 * | **Reporting Group** 01

Client: North Dakota State Water Commission | **Account:** 08001

Comments:

Verified: M. Crabtree, Jr. 28 sep

Date Sampled	Field ID Number	DCL Sample Name	DCL Sample ID	QC	Matrix	Customer ID 2	Analysis: Volatiles by 8260B	# Bottles
12-Sep-2006	SOUTH SPRING	06E04370			WATER	FIELD DUP	X	2

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Walk-in/ Room/ Shelf/ Fridge Storage R-24-2 wr	9.22.06 1015		WH Analysis / Storage R-402-1 wr

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: _____ Lab Notebook No.: _____

Prepared/Analyzed by: _____ Date/Time: _____

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location

Check box if there is a continuation page ☐

Printed 9/19/2006 17:05

Form: COFC1.01-SWV2.30

APPENDIX C: RESIDUES OF HERBICIDES, PESTICIDES, AND PETROLEUM

Laboratory results, and quality control report.

Includes:

Herbicides - picloram, bromoxynil, prometon, 2,4-D

Insectide - malathion

Petroleum Residues-GRO (Gasoline Range Organics)

benzene
toluene
ethyl benzene
xylenes (Total)

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MEMBER ACIL

BILL SCHUH
NORTH DAKOTA STATE WATER COMMISSION
900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A39353
Work Order #:82-1827
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 6 Sep 06
Date Received: 8 Sep 06
PO #: 1856

Project Number: 1856
Sample Description: 13100
W3839

Temp at Receipt: 5.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Date Ext / MDA List I					12 Sep 06	SP
Date Ext / MDA List II					13 Sep 06	SP
Malathion	< 0.5	ppb	0.5	3510	29 Sep 06	RB
2,4-D	< 0.3	ug/L	0 3	MDA-EA-WA200	28 Sep 06	RB
Picloram	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Bromoxynil	< 0.1	ppb	0 1	MDA-EA-WA200	28 Sep 06	RB
Prometon (Pramitol)	< 0.5	ug/L	0.5	3510/GCMS	29 Sep 06	RB

** No collection time supplied by the client

ATRAZINE-D5 SURROGATE RECOVERY: 70 %

TRIPHENYLPHOSPHATE SURROGATE RECOVERY: 71 %

DCAA SURROGATE RECOVERY: 119 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-016-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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NORTH DAKOTA STATE WATER COMMISSION
900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A39354
Work Order #:82-1827
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 6 Sep 06
Date Received: 8 Sep 06
PO #: 1856

Project Number: 1856
Sample Description: 13085
W3840

Temp at Receipt: 5.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Date Ext / MDA List II					13 Sep 06	SP
2,4-D	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Picloram	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Bromoxynil	< 0.1	ppb	0.1	MDA-EA-WA200	28 Sep 06	RB

** No collection time supplied by the client.

DCAA SURROGATE RECOVERY: 71 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A39355
Work Order #:82-1827
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 6 Sep 06
Date Received: 8 Sep 06
PO #: 1856

Project Number: 1856
Sample Description: 13094
W3841

Temp at Receipt: 5.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Date Ext / MDA List II					13 Sep 06	SP
Malathion	< 0.5	ppb	0.5	3510	29 Sep 06	RB
2,4-D	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Picloram	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Bromoxynil	< 0.1	ppb	0.1	MDA-EA-WA200	28 Sep 06	RB

** No collection time supplied by the client.

DCAA SURROGATE RECOVERY: 89 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40524
Work Order #:82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 12 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Sample Description: 13089

Temp at Receipt: 6.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Date Ext / MDA List II					13 Sep 06	SP
Benzene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Toluene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	18 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	18 Sep 06	RDQ
Malathion	< 0.5	ppb	0.5	3510	29 Sep 06	RB
2,4-D	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Picloram	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Bromoxynil	< 0.1	ppb	0.1	MDA-EA-WA200	28 Sep 06	RB

** No collection time supplied by the client.

BTEX/GRO Sample pH < 2

BTEX SURROGATE RECOVERY: 112 %

GRO SURROGATE RECOVERY: 86 %

DCAA SURROGATE RECOVERY: 70 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40525
Work Order #:82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 12 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Sample Description: 13089
FIELD DUPLICATE

Temp at Receipt: 6.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Benzene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Toluene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	18 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	18 Sep 06	RDQ
Malathion	< 0.5	ppb	0.5	3510	29 Sep 06	RB

** No collection time supplied by the client.

BTEX/GRO Sample pH < 2

BTEX SURROGATE RECOVERY: 110 %

GRO SURROGATE RECOVERY: 85 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40526
Work Order #:82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 12 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Sample Description: 13103

Temp at Receipt: 6.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Date Ext / MDA List I					12 Sep 06	SP
Benzene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Toluene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	18 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	18 Sep 06	RDQ
Prometon (Pramitol)	< 0.5	ug/L	0.5	3510/GCMS	29 Sep 06	RB

** No collection time supplied by the client

BTEX/GRO Sample pH < 2

BTEX SURROGATE RECOVERY: 112 %

GRO SURROGATE RECOVERY: 86 %

ATRAZINE-D5 SURROGATE RECOVERY: 59 %

TRIPHENYLPHOSPHATE SURROGATE RECOVERY: 51 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40527
Work Order #:82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 11 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Sample Description: 13087

Temp at Receipt: 6.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Date Ext / MDA List II					13 Sep 06	SP
Benzene	3.3	ppb	1.0	8021/5030	18 Sep 06	RDQ
Toluene	6.8	ppb	1.0	8021/5030	18 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	18 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	18 Sep 06	RDQ
2,4-D	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Picloram	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Bromoxynil	< 0.1	ppb	0.1	MDA-EA-WA200	28 Sep 06	RB

** No collection time supplied by the client.

BTEX/GRO Sample pH < 2

BTEX SURROGATE RECOVERY: 115 %

GRO SURROGATE RECOVERY: 86 %

DCAA SURROGATE RECOVERY: 109 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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NORTH DAKOTA STATE WATER COMMISSION
900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40528
Work Order #:82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 11 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Sample Description: 13088

Temp at Receipt: 6.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Benzene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Toluene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	18 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	18 Sep 06	RDQ

** No collection time supplied by the client.

BTEX/GRO Sample pH < 2

BTEX SURROGATE RECOVERY: 113 %

GRO SURROGATE RECOVERY: 87 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40529
Work Order #:82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 11 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Temp at Receipt: 6.0 C

Sample Description: 13092

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Benzene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Toluene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	18 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	18 Sep 06	RDQ

** No collection time supplied by the client.

BIEX/GRO Sample pH < 2

BIEX SURROGATE RECOVERY: 113 %

GRO SURROGATE RECOVERY: 87 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40530
Work Order #:82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 12 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Sample Description: 13098

Temp at Receipt: 6.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Date Ext / MDA List I					17 Sep 06	SP
Benzene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Toluene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	18 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	18 Sep 06	RDQ
Prometon (Pramitol)	< 0.5	ug/L	0.5	3510/GCMS	26 Sep 06	RB

** No collection time supplied by the client

BTEX/GRO Sample pH < 2

BTEX SURROGATE RECOVERY: 115 %

GRO SURROGATE RECOVERY: 88 %

ATRAZINE-D5 SURROGATE RECOVERY: 61 %

TRIPHENYLPHOSPHATE SURROGATE RECOVERY: 72 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40531
Work Order #:82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 12 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Sample Description: FIELD BLANK

Temp at Receipt: 6.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Date Ext / MDA List II					13 Sep 06	SP
Benzene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Toluene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	18 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	18 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	18 Sep 06	RDQ
Malathion	< 0.5	ppb	0.5	3510	29 Sep 06	RB
2,4-D	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Picloram	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Bromoxynil	< 0.1	ppb	0.1	MDA-EA-WA200	28 Sep 06	RB

** No collection time supplied by the client.

BTEX/GRO Sample pH < 2

BTEX SURROGATE RECOVERY: 117 %

GRO SURROGATE RECOVERY: 86 %

DCAA SURROGATE RECOVERY: 81 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40532
Work Order #:82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 12 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Sample Description: 13106

Temp at Receipt: 6.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Date Ext / MDA List II					13 Sep 06	SP
Benzene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Toluene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	19 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	19 Sep 06	RDQ
Malathion	< 0.5	ppb	0.5	3510	29 Sep 06	RB
2,4-D	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Picloram	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Bromoxynil	< 0.1	ppb	0.1	MDA-EA-WA200	28 Sep 06	RB

** No collection time supplied by the client.

BTEX/GRO Sample pH < 2

BTEX SURROGATE RECOVERY: 112 %

GRO SURROGATE RECOVERY: 84 %

DCAA SURROGATE RECOVERY: 96 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
: = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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MEMBER ACIL

BILL SCHUH
NORTH DAKOTA STATE WATER COMMISSION
900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40533
Work Order #:82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 12 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Sample Description: 13093

Temp at Receipt: 6.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Date Ext / MDA List II					13 Sep 06	SP
Benzene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Toluene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	19 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	19 Sep 06	RDQ
Malathion	< 0.5	ppb	0.5	3510	29 Sep 06	RB
2,4-D	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Picloram	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Bromoxynil	< 0.1	ppb	0.1	MDA-EA-WA200	28 Sep 06	RB

** No collection time supplied by the client.

BTEX/GRO Sample pH < 2

BTEX SURROGATE RECOVERY: 112 %

GRO SURROGATE RECOVERY: 87 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-N ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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BILL SCHUH
NORTH DAKOTA STATE WATER COMMISSION
900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40534
Work Order #:82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 12 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Sample Description: 13104

Temp at Receipt: 6.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Date Ext / MDA List I					17 Sep 06	SP
Benzene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Toluene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	19 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	19 Sep 06	RDQ
Prometon (Pramitol)	< 0.5	ug/L	0.5	3510/GCMS	26 Sep 06	RB

** No collection time supplied by the client.

BTEX/GRO Sample pH < 2

BTEX SURROGATE RECOVERY: 112 %

GRO SURROGATE RECOVERY: 84 %

ATRAZINE-D5 SURROGATE RECOVERY: 64 %

TRIPHENYLPHOSPHATE SURROGATE RECOVERY: 66 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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MEMBER ACIL

BILL SCHUH
NORTH DAKOTA STATE WATER COMMISSION
900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40535
Work Order #:82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 12 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Sample Description: NORTH SPRING

Temp at Receipt: 6.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Date Ext / MDA List I					17 Sep 06	SP
Date Ext / MDA List II					13 Sep 06	SP
Benzene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Toluene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	19 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	19 Sep 06	RDQ
Malathion	< 0.5	ppb	0.5	3510	29 Sep 06	RB
2,4-D	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Picloram	2.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Bromoxynil	< 0.1	ppb	0.1	MDA-EA-WA200	28 Sep 06	RB
Prometon (Pramitol)	< 0.5	ug/L	0.5	3510/GCMS	26 Sep 06	RB

** No collection time supplied by the client.

BTEX/GRO Sample pH < 2

BTEX SURROGATE RECOVERY: 111 %

GRO SURROGATE RECOVERY: 83 %

ATRAZINE-D5 SURROGATE RECOVERY: 63 %

TRIPHENYLPHOSPHATE SURROGATE RECOVERY: 75 %

DCAA SURROGATE RECOVERY: 68 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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BILL SCHUH
NORTH DAKOTA STATE WATER COMMISSION
900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40536
Work Order #: 82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 12 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Temp at Receipt: 6.0 C

Sample Description: S-WASH LAKE

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Date Ext / MDA List I					17 Sep 06	SP
Date Ext / MDA List II					13 Sep 06	SP
Benzene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Toluene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	19 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	19 Sep 06	RDQ
Malathion	< 0.5	ppb	0.5	3510	29 Sep 06	RB
2,4-D	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Picloram	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Bromoxynil	< 0.1	ppb	0.1	MDA-EA-WA200	28 Sep 06	RB
Prometon (Pramitol)	< 0.5	ug/L	0.5	3510/GCMS	26 Sep 06	RB

** No collection time supplied by the client.

BTEX/GRO Sample pH < 2

BTEX SURROGATE RECOVERY: 112 %

GRO SURROGATE RECOVERY: 83 %

ATRAZINE-D5 SURROGATE RECOVERY: 56 %

TRIPHENYLPHOSPHATE SURROGATE RECOVERY: 65 %

DCAA SURROGATE RECOVERY: 74 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix
! = Due to sample quantity
= Due to sample concentration
+ = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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MEMBER ACIL

BILL SCHUH
NORTH DAKOTA STATE WATER COMMISSION
900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40537
Work Order #:82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 12 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Sample Description: S-WASH LAKE
FIELD DUPLICATE

Temp at Receipt: 6.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Date Ext / MDA List II					13 Sep 06	SP
Benzene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Toluene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	19 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	19 Sep 06	RDQ
Malathion	< 0.5	ppb	0.5	3510	29 Sep 06	RB
2,4-D	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Picloram	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Bromoxynil	< 0.1	ppb	0.1	MDA-EA-WA200	28 Sep 06	RB

** No collection time supplied by the client.

BTEX/GRO Sample pH < 2

BTEX SURROGATE RECOVERY: 113 %

GRO SURROGATE RECOVERY: 84 %

DCAA SURROGATE RECOVERY: 83 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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BILL SCHUH
NORTH DAKOTA STATE WATER COMMISSION
900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40538
Work Order #:82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 12 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Sample Description: RESERVOIR

Temp at Receipt: 6.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Date Ext / MDA List I					17 Sep 06	SP
Benzene	< 1	ppb	1	8021/5030	21 Sep 06	RDQ
Toluene	< 1	ppb	1	8021/5030	21 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	21 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	21 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	21 Sep 06	RDQ
Prometon (Pramitol)	< 0.5	ug/L	0.5	3510/GCMS	26 Sep 06	RB

** No collection time supplied by the client.

BIEX/GRO Sample pH < 2

BTEX SURROGATE RECOVERY: 113 %

GRO SURROGATE RECOVERY: 84 %

ATRAZINE-D5 SURROGATE RECOVERY: 55 %

TRIPHENYLPHOSPHATE SURROGATE RECOVERY: 67 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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MEMBER ACIL

BILL SCHUH
NORTH DAKOTA STATE WATER COMMISSION
900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40539
Work Order #:82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 12 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Sample Description: LAKE COE

Temp at Receipt: 6.0 C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Date Ext / MDA List II					13 Sep 06	SP
Benzene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Toluene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	19 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	19 Sep 06	RDQ
2,4-D	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Picloram	< 0.3	ug/L	0.3	MDA-EA-WA200	28 Sep 06	RB
Bromoxynil	< 0.1	ppb	0.1	MDA-EA-WA200	28 Sep 06	RB

** No collection time supplied by the client.

BTEX/GRO Sample pH < 2

BTEX SURROGATE RECOVERY: 111 %

GRO SURROGATE RECOVERY: 83 %

DCAA SURROGATE RECOVERY: 79 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040 IA LAB #: 132 IA LAB #: 022

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MEMBER ACIL

BILL SCHUH
NORTH DAKOTA STATE WATER COMMISSION
900 EAST BOULEVARD
BISMARCK ND 58505

Report Date: 3 Oct 06
Lab Number: 06-A40540
Work Order #:82-1911
Account #: 002033
Sample Matrix: GROUNDWATER
Date Sampled: 12 Sep 06
Date Received: 15 Sep 06
PO #: CGS/1856

Temp at Receipt: 6.0 C

Sample Description: TRIP BLANK

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Benzene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Toluene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Ethyl Benzene	< 1	ppb	1	8021/5030	19 Sep 06	RDQ
Xylenes (Total)	< 3	ppb	3	8021/5030	19 Sep 06	RDQ
GRO (TPH)	< 0.2	mg/L	0.2	8015B/OA1	19 Sep 06	RDQ

** No collection time supplied by the client

BTEX/GRO Sample pH < 2

BTEX SURROGATE RECOVERY: 114 %

GRO SURROGATE RECOVERY: 84 %

RL = Reporting Limit

Elevated "Less Than Result" (<): @ = Due to sample matrix # = Due to sample concentration
! = Due to sample quantity + = Due to extract volume

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-010 IA LAB #: 132 IA LAB #: 022

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Quality Control Report for
BTEX/GRO – EPA Method 8021
Date: 18 September 2006
WO Number: 200682-1911
Samples: 06-A40524 through 06-A40531

Matrix Spike Data
QC Sample: 06-A40524

Compound	Sample	Matrix Spike	Matrix Spike Duplicate	Relative Percent Difference (<20)	Acceptance Range (%)
Benzene	BDL	96	104	8 00	85-122
aaa-TFT Surrogate	112	113	112	0 89	85-120
Toluene	BDL	97	105	7 92	80-121
Ethyl Benzene	BDL	102	110	7 55	85-120
m,p-xylene	BDL	99	107	7.77	88-118
o-xylene	BDL	101	109	7 62	85-119
BrFB Surrogate	86	92	91	1 09	82-115
GRO (TPH)	BDL	N/A	N/A	N/A	70-130

Calibration Data

Compound	Lab Blank	Initial Calibration Check	Final Calibration Check	Acceptance Range (%)
Benzene	BDL	94	97	85-115
aaa-TFT Surrogate	111	112	113	85-115
Toluene	BDL	97	98	85-115
Ethyl Benzene	BDL	103	102	85-115
m,p-xylene	BDL	100	99	85-115
o-xylene	BDL	103	102	85-115
BrFB Surrogate	85	93	91	85-115
GRO (TPH)	BDL	107	109	85-115

Narrative:

No problems were encountered with this sample set.

Data Approved By: _____ 04Apr07
Jay Giefer, Environmental Section Leader — Date

LABORATORIES, Inc.
P.O BOX 249 1126 N. FRONT STREET
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Quality Control Report for
BTEX/GRO – EPA Method 8021
Date: 19 September 2006
WO Number: 200682-1911
Samples: 06-A40532 through 06-A40537, 06-A40539 through 06-A40540

Matrix Spike Data
QC Sample: 06-A40532

Compound	Sample	Matrix Spike	Matrix Spike Duplicate	Relative Percent Difference (<20)	Acceptance Range (%)
Benzene	BDL	99	104	4.93	85-122
aaa-TFT Surrogate	112	114	114	0.00	85-120
Toluene	BDL	100	105	4.88	80-121
Ethyl Benzene	BDL	104	110	5.61	85-120
m,p-xylene	BDL	101	106	4.83	88-118
o-xylene	BDL	103	108	4.74	85-119
BrFB Surrogate	84	91	90	1.10	82-115
GRO (TPH)	BDL	N/A	N/A	N/A	70-130

Calibration Data

Compound	Lab Blank	Initial Calibration Check	Final Calibration Check	Acceptance Range (%)
Benzene	BDL	107	87	85-115
aaa-TFT Surrogate	111	111	108	85-115
Toluene	BDL	109	94	85-115
Ethyl Benzene	BDL	115	100	85-115
m,p-xylene	BDL	112	97	85-115
o-xylene	BDL	115	101	85-115
BrFB Surrogate	86	92	92	85-115
GRO (TPH)	BDL	103	96	85-115

Narrative:

No problems were encountered with this sample set.

Data Approved By: _____ 09Apr07
Jay Giefer, Environmental Section Leader — Date

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Quality Control Report for
BTEX/GRO – EPA Method 8021
Date: 21 September 2006
WO Number: 200682-1911
Samples: 06-A40538

Matrix Spike Data
QC Sample: 06-A40538

Compound	Sample	Matrix Spike	Matrix Spike Duplicate	Relative Percent Difference (<20)	Acceptance Range (%)
Benzene	BDL	97	101	4 04	85-122
aaa-TFT Surrogate	113	112	112	0 00	85-120
Toluene	BDL	99	102	2 99	80-121
Ethyl Benzene	BDL	104	107	2 84	85-120
m,p-xylene	BDL	101	104	2 93	88-118
o-xylene	BDL	103	107	3.81	85-119
BrFB Surrogate	84	91	91	0.00	82-115
GRO (TPH)	BDL	N/A	N/A	N/A	70-130

Calibration Data

Compound	Lab Blank	Initial Calibration Check	Final Calibration Check	Acceptance Range (%)
Benzene	BDL	91	95	85-115
aaa-TFT Surrogate	111	112	113	85-115
Toluene	BDL	93	96	85-115
Ethyl Benzene	BDL	99	98	85-115
m,p-xylene	BDL	96	96	85-115
o-xylene	BDL	99	98	85-115
BrFB Surrogate	85	92	90	85-115
GRO (TPH)	BDL	111	100	85-115

Narrative:

No problems were encountered with this sample set.

Data Approved By: _____ 09/22/07
Jay Gieler, Environmental Section Leader — Date

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QUALITY CONTROL REPORT

Work Order #: 200682-1827
Laboratory #: 06-A39353 through A39355
Date Reported: 10 April 2007

Analyte	Blank Spike (ppb)	Recovered (ppb)	% Recovery	QC Blank Analyte Concentrations
Malathion	1.00	0.66	66*	ND
Prometon	1.00	0.74	74	ND
2,4-D	1.00	0.90	90	ND
Picloram	1.00	0.76	76	ND
Bromoxynil	1.00	0.14	14*	ND

Analyte	Matrix Spike (ppb)	Recovered (ppb)	% Recovery	QC Blank Analyte Concentrations
Malathion	1.00	0.72	72	ND
Prometon	1.00	0.76	76	ND
2,4-D	1.00	1.02	102	ND
Picloram	1.00	0.85	85	ND
Bromoxynil	1.00	0.27	27*	ND

ND = None Detected

* = Below Acceptable Limits

MVTL METHOD I.D.	REVISION	REFERENCE METHOD
P11523 (Malathion)	1.4	US EPA SW 846-3510, 8141, 8081
B15323 (Prometon)	1.8	US EPA SW 846-3510 and 8270C Mod.
T00523 (2,4-D, Picloram, and Bromoxynil)	2	US EPA SW846-3510 and 8151A Mod.

Quality control data reviewed and approved by Michael Wierima, Organics Section Leader
By and for Minnesota Valley Testing Laboratories, Inc.

M. Wierima
10 Apr 07

MVTL LABORATORIES, Inc.
P.O. BOX 249 1126 N. FRONT STREET
NEW ULM, MN 56073-0249
PHONE (507) 354-8517 WATS (800) 782-3557 FAX (507) 359-2890

QUALITY CONTROL REPORT

Work Order #: 200682-1911
Laboratory #: 06-A40524 through A40539
Date Reported: 10 April 2007

Analyte	Blank Spike (ppb)	Recovered (ppb)	% Recovery	QC Blank Analyte Concentrations
Malathion	1.00	0.87	87	ND
Prometon	1.00	0.56	56*	ND
2,4-D	1.00	0.90	90	ND
Picloram	1.00	0.89	89	ND
Bromoxynil	1.00	0.18	18*	ND

Analyte	Matrix Spike (ppb)	Recovered (ppb)	% Recovery	QC Blank Analyte Concentrations
Malathion	1.00	0.78	78	ND
Prometon	1.00	0.79	79	ND
2,4-D	1.00	1.08	108	ND
Picloram	1.00	0.97	97	ND
Bromoxynil	1.00	0.23	23*	ND

ND = None Detected

* = Below Acceptable Limits

MVTL METHOD I.D.	REVISION	REFERENCE METHOD
P11523 (Malathion)	1.4	US EPA SW 846-3510, 8141, 8081
B15323 (Prometon)	1.8	US EPA SW 846-3510 and 8270C Mod.
T00523 (2,4-D, Picloram, and Bromoxynil)	2	US EPA SW846-3510 and 8151A Mod.

Quality control data reviewed and approved by Michael Wierima, Organics Section Leader
By and for Minnesota Valley Testing Laboratories, Inc.

10 AUG 07

CHAIN OF CUSTODY RECORD

Page _____ of _____

PLEASE DO NOT WRITE IN THE SHADED AREAS

MVTL LABORATORIES, Inc.
1411 South 12th Street
Bismarck, ND 58504
Phone: (701) 258-9720
Toll Free: (800) 279-6885 Fax: (701) 258-9724

WORK ORDER # 82-1827

Company Name and Address: ND State Water Commission 900 East Boulevard	Account #:	Phone #: 701-328-2739
	Contact: Bill Schuh	Fax #: For faxed report check box ☐
	Name of Sampler: Bill Schuh	
Billing Address (indicate name and address if different from above): 11	Quote #:	Date Submitted:
	Project Name/Number: 1856	Purchase Order #:

Lab Use Only	Your Sample I.D. or Number	Sample Description	Date / Time	Soil	Water	Food	Other (Please Be Specific)	Analyze For:
	Example	Tank Bottom Tank #3	01/01/99 11:45 a.m.			X	Sampled Liquid Layer Not bottom sludge	Vitamin A, TKN, Iron, Calcium BOD, COD, Acetone, Shelf Life
W3839	13100	Combo #1	9/6/06		X		1L	picloram + 2,4-D
	13100	11	9/6/06		X		~~Picloram~~ 1L	promefone
	13100	11	9/6/06		X		1L	malathion
	13100	11			X		MS-MSD (4-L)	promefone, malathion
W3840	13085	11	9/6/06		X		1L	picloram + 2,4-D
W3841	13094	Combo #2	9/6/06		X		2L	picloram + 2,4-D, malathion
	11	11	9/6/06		X		1L	MS-MSD, pic. + 2,4-D
	11	11	9/6/06		X		1L	extra

	Transferred by:	Comments: (Sample Condition)	Date / Time	Received by:	Comments: (Sample Condition)	Date / Time	°C
1			9/7/06 4pm	Rod Redlin		9-7-06 16:00	
2							
3							

Disposed of By: Disposal Comments:

Please submit the top two copies with your samples. We will return the completed original with your results.

K11475 (REVISED 10/06, 2007)

MVTL LABORATORIES, Inc.
1411 South 12th Street
Bismarck, ND 58504
Phone: (701) 258-9720
Toll Free: (800) 279-6885 Fax: (701) 258-9724

CHAIN OF CUSTODY RECORD

PLEASE DO NOT WRITE IN THE SHADED AREAS

WORK ORDER # 82-1911

Company Name and Address:
Bill Schuh
ND Swc
900 E Bud Dr
Bismarck ND. 58505

Billing Address (indicate name and address if different from above):

Account #:

Contact: Bill Schuh

Name of Sampler:

Quote #:

Project Name/Number: CDS #1856

Phone #: 701-328-2739

Fax #:

For faxed report check box ☐

Date Submitted: 9/13

Purchase Order #:

Lab Use Only	Your Sample I.D. or Number	Sample Description	Date / Time	Type of Sample (Matrix or Substance) Soil	Water	Food	Other (Please Be Specific)	Analyze For:
	Example	Tank Bottom Tank #3	01/01/99 11:45 a.m.			X	Sampled Liquid Layer Not bottom sludge	Vitamin A, TKN, Iron, Calcium BOD, COD, Acetone, Shelf Life
W4049	13059							2L Pick-Thiram, Metalaxyl
W4050	13059 Field Duplicate							1L picloram+2,4D
W4051	13103							1L Prometone
	~~13105~~							~~1L~~
W4052	13057							1L picloram+2,4D
	13059							3 vial BTEX CRL
W4054	13059 Field Duplicate							1L
W4053	13057, (13058), (13097)						(each)	3 vial BTEX CRL
W4055	(13098) 13103, (Field Blank), ~~Lab Blank~~						1L	1L 1L
W4056	Lab Blank							1L

	Transferred by:	Comments: (Sample Condition)	Date / Time	Received by:	Comments: (Sample Condition)	Date / Time	°C
1	Bill Schuh		9/14	Tina Olson		14 Sept 06 1610	
2							
3							

Disposed of By: Disposal Comments:

K11475

Please submit the top two copies with your samples. We will return the compieted original with your results.

MVTL LABORATORIES, Inc.
1411 South 12th Street
Bismarck, ND 58504
Phone: (701) 258-9720
Toll Free: (800) 279-6885 Fax: (701) 258-9724

CHAIN OF CUSTODY RECORD

PLEASE DO NOT WRITE IN THE SHADED AREAS

WORK ORDER # 82-1911

Company Name and Address:
Bill Schuh
NDSWC
900 East Boulevard Ave
Bismarck ND 58505

Billing Address (indicate name and address if different from above):

Account #:

Contact:

Name of Sampler: [signature]

Quote #:

Project Name/Number: 1656

Phone #: 701-328-2799

Fax #:

For faxed report check box ☐

Date Submitted:

Purchase Order #:

Lab Use Only	Your Sample I.D. or Number	Sample Description	Date / Time	Type of Sample (Matrix or Substance) Soil	Water	Food	Other (Please Be Specific)	Analyze For:
	Example	Tank Bottom Tank #3	01/01/99 11:45 a.m.			X	Sampled Liquid Layer Not bottom sludge	Vitamin A, TKN, Iron, Calcium BOD, COD, Acetone, Shelf Life
W4061	S. Washington Lake	1 Liter Broken 40	9/12		X		3 vial BTEX-CRO	(2L) (Pick-+2,4D) (Malathion 1 x 4 oz)
W4062	S. Washington Lake		9/12		X		3 vial BTEX-CRO	(2L) (Pic-+2,4D) (Malathion Field Duplicate
W4063	Reservoir		9/12		X			(1L) Promeyone
W4055	13098		9/12		X			Promeyone (1L)
W4064	Lake Core	1-Liter Broken 40	9/12		X			2L* (Pick-+2,4D, malathion
	Lake Core							3 vials BTEX-CRO CRO

	Transferred by:	Comments: (Sample Condition)	Date / Time	Received by:	Comments: (Sample Condition)	Date / Time	°C
1	[signature]	-	9/14	Tina Olson		14 Sept 06 1610	
2							
3							

Disposed of By:

Disposal Comments:

Please submit the top two copies with your samples. We will return the completed original with your results.