Project # 12SF073

Site Name: Dimock Residential Groundwater

U.S. EPA Region 6 Laboratory

Laboratory Report Approval and Release Authorization

Signing the approval below indicates that the data for the above named site/activity number has been reviewed. All data is complete for the samples received and quality control is within acceptable limits. Any exceptions have been noted in the comments section.

REPORT APPROVALS		COMMENTS
David Stockton Inorganic Team Leader	Date	
Diane Gregg Organic Team Leader	3/28/12 Date	
Melvin Ritter Laboratory Support Team Leader	Date	
Sylvia Gorostiza QA Coordinator	3/29/2012 Date	
Marvelyn Humphrey Associate Branch Chief	Date	

REPORT RELEASE AUTHORIZATION		COMMENTS
Richard McMillin Deputy Branch Chief	3/30/12 Date	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

10625 Fallstone Rd, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

WORK ORDER **Printed: 3/7/2012 12:06:29PM**

1203005

U.S. EPA, Region 6 ATTN: Christy Warren

Client: R6 Regional Support
Project: Dimock Residential Groundwater Site

Project Manager: Christy Warren
Project Number: 12SF073

Report To:
R6 Regional Support
Cynthia Caporale (3EA21)
10625 Fallstone Road
Houston, TX 77099
Phone: (281) 983-2100
Fax: (281) 983-2248

GPRA Code:
Cerclis Number:
Site Spill ID:

Date Due: 03/28/12 15:00 (15 day TAT)

Received By: Isaiah Harris — Date Received: 03/07/12 09:50

Logged In By: Christy Warren — Date Logged In: 03/07/12 11:59

Prelim results ASAP. Final hardcopy TAT = 21 days

Samples Received at:	6°C		
Package Custody Seal	Yes	Sample Tags	No
On Ice	Yes	Chain of Custody	Yes
Intact	Yes	Preserved	No
Sample Custody Seals	Yes		

Analysis	Due	TAT	Expires	Comments
1203005-01 FB19 [Liquid] Sampled 03/05/12 09:36 Central				
ABN Glycols	3/28/12	15	03/12/12 09:36	
1203005-02 HW56 [Liquid] Sampled 03/05/12 16:54 Central				**Extra volume for QC**
ABN Glycols	3/28/12	15	03/12/12 16:54	
1203005-03 HW60 [Liquid] Sampled 03/05/12 12:25 Central				
ABN Glycols	3/28/12	15	03/12/12 12:25	

Christy Warren — Reviewed By

3/8/12 — Date

EPA Region 6 Laboratory

Sample Log In/Corrective Action Form

Site Name: Dimock Residential Groundwater Date Received: 3-7-12

Project Number/Work Order Number (Number of Samples [i.e. 01 - 10]): 12SF073/1203005(01-03) Time Received: 9:50

Number of Coolers: 1

Delivered By:	Fed Ex/Airborne	✓	USPS		Hand Delivered		UPS		Other	
Ice Chest Custody Seal:	Intact	✓	Not-Intact		Absent		Not Applicable			
Ice Chest Packing:	Ice	✓	Vermiculite	✓	Zip Lock Bags	✓	Bubble Wrap	✓	Other	✓
Condition of Samples:	Intact	✓	Leaking		Broken					
Sample Custody Seals:	Intact		Not Intact		Absent	✓				
Chain of Custody:	Present	✓	Absent							
Sample Tags:	Present	✓	Absent							
Is the Sample Tag Marked for Chemical Preservation (if required):	Yes		No	✓	Not Applicable					
Is the Sample Tag Marked with the correct chemical preservation? (if required):	Yes		No		Not Applicable	✓				

Comments:

Initial: I.H. Date: 3-7-12

Project Officer (PO): _____ Phone #: _____

Notified PO of any discrepancies/problems on _____ (Date) by _____ (Initial)

DIM0122288

DIM0122263

USEPA CLP Generic COC (LAB COPY)

DateShipped: 3/6/2012
CarrierName: FedEx
AirbillNo: 7981 3489 3053

CHAIN OF CUSTODY RECORD

Case #: CT5928

No: 3-030612-085615-0247

Lab: EPA R6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB19	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	19052 (-NA- / 40mlGlassVial), 19053 (-NA- / 40mlGlassVial) (2)	FB19	03/05/2012 09:36	
HW56	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol	19119 (-NA- / 40mlGlassVial), 19120 (-NA- / 40mlGlassVial), 19138 (-NA- / 40mlGlassVial), 19139 (-NA- / 40mlGlassVial), 19140 (-NA- / 40mlGlassVial), 19141 (-NA- / 40mlGlassVial) (6)	HW56	03/05/2012 16:54	
HW60	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19085 (-NA- / 40mlGlassVial), 19086 (-NA- / 40mlGlassVial) (2)	HW60	03/05/2012 12:25	

Sample(s) to be used for Lab QC: HW56

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
10	D Macovone	3/6/12	Isaiah Harris	3/7/12	9:50						

Sample Temp: 6°C

DIM0122289

DIM0122263

From: (304) 230-1230 Origin ID: BGMA
Brian BurrisSample Management_Dirn
TechLaw, Inc.
63 PENNFIELD RD

MONTROSE, PA 18801

J12101112190225

Ship Date: 06MAR12
ActWgt: 10.0 LB
CAD: 8747913/INET3250

Delivery Address Bar Code

Ref # TL01-11-12-001
Invoice #
PO #
Dept #

SHIP TO: (281) 983-2137 BILL SENDER

Christy Warren
U.S. EPA Region 6 Laboratory
10625 FALLSTONE RD
SAMPLE CONTROL CENTER
HOUSTON, TX 77099

TRK# 7981 3489 3053
0201

WED - 07 MAR A2
PRIORITY OVERNIGHT
ASR
77099
TX-US
IAH

XH SGRA

512G1/81D5/A278

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

10625 Fallstone Rd, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

WORK ORDER **Printed: 3/8/2012 10:58:11AM**

1203007

U.S. EPA, Region 6 ATTN: Christy Warren

Client: R6 Regional Support **Project Manager: Christy Warren**
Project: Dimock Residential Groundwater Site **Project Number: 12SF073**

Report To:
R6 Regional Support
Cynthia Caporale (3EA21)
10625 Fallstone Road
Houston, TX 77099
Phone: (281) 983-2100
Fax: (281) 983-2248

GPRA Code:
Cerclis Number:
Site Spill ID:

Date Due: 04/06/12 15:00 (21 day TAT)
Received By: Isaiah Harris Date Received: 03/08/12 09:00
Logged In By: Isaiah Harris Date Logged In: 03/08/12 10:47

Samples Received at: 4°C
Prelim results ASAP. Final hardcopy TAT = 21 days

Package Custody Seal	Yes	Sample Tags	Yes
On Ice	Yes	Chain of Custody	Yes
Intact	Yes	Preserved	No
Sample Custody Seals	No		

Analysis	Due	TAT	Expires	Comments
1203007-01 FB20 [Liquid] Sampled 03/06/12 14:00 Central				
ABN Glycols	4/3/12	18	03/13/12 14:00	
1203007-02 HW61 [Liquid] Sampled 03/06/12 15:42 Central				
ABN Glycols	4/3/12	18	03/13/12 15:42	
1203007-03 HW61-P [Liquid] Sampled 03/06/12 16:00 Central				
ABN Glycols	4/3/12	18	03/13/12 16:00	
1203007-04 HW61z [Liquid] Sampled 03/~~07~~06/12 15:42 Central				
ABN Glycols	4/3/12	18	03/14/12 15:42	

Christy Warren
Reviewed By

3/15/12
Date

EPA Region 6 Laboratory

Sample Log In/Corrective Action Form

Site Name: Dimock Residential Groundwater Date Received: 3-8-12

Project Number/Work Order Number (Number of Samples [i.e. 01 - 10]): 12SF073/1203007(01-04) Time Received: 9:00

Number of Coolers: 1

Delivered By:	Fed Ex/Airborne	✓	USPS		Hand Delivered		UPS		Other	
Ice Chest Custody Seal:	Intact	✓	Not-Intact		Absent		Not Applicable			
Ice Chest Packing:	Ice	✓	Vermiculite	✓	Zip Lock Bags	✓	Bubble Wrap	✓	Other	✓
Condition of Samples:	Intact	✓	Leaking		Broken					
Sample Custody Seals:	Intact		Not Intact		Absent	✓				
Chain of Custody:	Present	✓	Absent							
Sample Tags:	Present	✓	Absent							
Is the Sample Tag Marked for Chemical Preservation (if required):	Yes		No	✓	Not Applicable					
Is the Sample Tag Marked with the correct chemical preservation? (if required):	Yes		No		Not Applicable	✓				

Comments:

Initial: I.H. Date: 3-8-12

Project Officer (PO): _____ Phone #: _____

Notified PO of any discrepancies/problems on _____ (Date) by _____ (Initial).

DIM0122292

DIM0122263

USEPA CLP Generic COC (LAB COPY)

DateShipped: 3/7/2012
CarrierName: FedEx
AirbillNo: 7981 4076 7688

CHAIN OF CUSTODY RECORD

Case #: CT5928

No: 3-030712-111413-0253

Lab: EPA R6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB20	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	19242 (-NA- / 40mlGlassVial), 19243 (-NA- / 40mlGlassVial) (2)	FB20	03/06/2012 14:00	
HW61	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19172 (-NA- / 40mlGlassVial), 19173 (-NA- / 40mlGlassVial) (2)	HW61	03/06/2012 15:42	
HW61-P	Drinking Water/ Brian Burris	Grab	Ethylene Glycol, Ethylene Glycol	19216 (-NA- / 40mlGlassVial), 19217 (-NA- / 40mlGlassVial) (2)	HW61-P	03/06/2012 16:00	
HW61z	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19198 (-NA- / 40mlGlassVial), 19199 (-NA- / 40mlGlassVial) (2)	HW61	03/06/2012 15:42	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
8	[signature]	3/7/12	Isaiah Harris	3/8/12	9:00						

Sample Temp: 4°C

DIM0122293

DIM0122263

From: (304) 230-1230 Origin ID: BGMA
Brian BurrisSample Management_Dim
TechLaw, Inc.
63 PENNFIELD RD

MONTROSE, PA 18801

J12101112190225

Ship Date: 07MAR12
ActWgt: 10.0 LB
CAD: 8747913/INET3250

Delivery Address Bar Code

Ref # TL01-11-12-001
Invoice #
PO #
Dept #

SHIP TO: (281) 983-2137 BILL SENDER

Christy Warren
U.S. EPA Region 6 Laboratory
10625 FALLSTONE RD
SAMPLE CONTROL CENTER
HOUSTON, TX 77099

TRK# 0201 7981 4076 7688

THU - 08 MAR A2
PRIORITY OVERNIGHT
ASR
77099
TX-US
IAH

XH SGRA

512G1/81D5/A278

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

10625 Fallstone Rd, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

WORK ORDER **Printed: 3/9/2012 11:26:10AM**

1203012

U.S. EPA, Region 6 ATTN: Christy Warren

Client: R6 Regional Support **Project Manager: Christy Warren**
Project: Dimock Residential Groundwater Site **Project Number: 12SF073**

Report To:
R6 Regional Support
Cynthia Caporale (3EA21)
10625 Fallstone Road
Houston, TX 77099
Phone: (281) 983-2100
Fax: (281) 983-2248

GPRA Code:
Cerclis Number:
Site Spill ID:

Date Due:	03/30/12 15:00 (15 day TAT)		
Received By:	Isaiah Harris	Date Received:	03/09/12 09:30
Logged In By:	Christy Warren	Date Logged In:	03/09/12 09:32

Prelim results ASAP. Final hardcopy TAT = 21 days

Samples Received at:	4°C		
Package Custody Seal	Yes	Sample Tags	Yes
On Ice	Yes	Chain of Custody	Yes
Intact	Yes	Preserved	No
Sample Custody Seals	No		

Analysis	Due	TAT	Expires	Comments
1203012-01 FB21 [Liquid] Sampled 03/08/12 13:38 Central				
ABN Glycols	3/30/12	15	03/15/12 13:38	
1203012-02 HW50 [Liquid] Sampled 03/08/12 15:09 Central				
ABN Glycols	3/30/12	15	03/15/12 15:09	

Christy Warren
Reviewed By

3/15/12
Date

EPA Region 6 Laboratory

Sample Log In/Corrective Action Form

Site Name: Dimock Residential Groundwater Date Received: 3-9-12

Project Number/Work Order Number (Number of Samples [i.e. 01 - 10]): 12SF073/203012 (01-02) Time Received: 9:30

Number of Coolers: 1

Delivered By:	Fed Ex / Airborne	✓	USPS		Hand Delivered		UPS		Other	
Ice Chest Custody Seal:	Intact	✓	Not-Intact		Absent		Not Applicable			
Ice Chest Packing:	Ice	✓	Vermiculite		Zip Lock Bags		Bubble Wrap		Other	
Condition of Samples:	Intact	✓	Leaking		Broken					
Sample Custody Seals:	Intact		Not Intact		Absent	✓				
Chain of Custody:	Present	✓	Absent							
Sample Tags:	Present		Absent	✓						
Is the Sample Tag Marked for Chemical Preservation (if required):	Yes		No		Not Applicable	✓				
Is the Sample Tag Marked with the correct chemical preservation? (if required):	Yes		No		Not Applicable	✓				

Comments:

Initial: I.H. Date: 3-9-12

Project Officer (PO): _____ Phone #: _____

Notified PO of any discrepancies/problems on _____ (Date) by _____ (Initial)

DIM0122296

DIM0122263

USEPA CLP Generic COC (LAB COPY)

DateShipped: 3/8/2012
CarrierName: FedEx
AirbillNo: 7981 4835 1266

CHAIN OF CUSTODY RECORD

Case #: CT5928

No: 3-030812-165546-0262

Lab: EPA R6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB21	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	18960 (-NA- / 40mlGlassVial), 18961 (-NA- / 40mlGlassVial) (2)	FB21	03/08/2012 13:38	
HW50	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	18999 (-NA- / 40mlGlassVial), 19000 (-NA- / 40mlGlassVial) (2)	HW50	03/08/2012 15:09	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4	D Kaconome	3/8/12	Isaiah Harris	3/9/12	9:30						

Sample Temp: 4°C

DIM0122297

DIM0122263

From: (304) 230-1230 Origin ID: BGMA
Brian BurrisSample Management_Dim
TechLaw, Inc.
63 PENNFIELD RD

MONTROSE, PA 18801

J12101112190225

Ship Date: 08MAR12
ActWgt: 8.0 LB
CAD: 8747913/INET3250

Delivery Address Bar Code

Ref # TL01-11-12-001
Invoice #
PO #
Dept #

SHIP TO: (281) 983-2137 BILL SENDER

Christy Warren
U.S. EPA Region 6 Laboratory
10625 FALLSTONE RD
SAMPLE CONTROL CENTER
HOUSTON, TX 77099

TRK# 0201 7981 4835 1266

FRI - 09 MAR A2
PRIORITY OVERNIGHT
ASR
77099
TX-US
IAH

XH SGRA

512G1/81D5/A278

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 6 Laboratory
Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Amended Final Analytical Report

Site Name ----------Dimock Residential Groundwater Site

Sample Collection Date(s)-- 03/05/12 - 03/08/12

Contact---------- Cynthia Caporale (3EA21)

Report Date---------- 05/01/12

Project #---------- 12SF073

Work Order(s)---------- 1203005
1203007
1203012

Analyses included in this report:

ABN Glycols

Report Narrative

This report has been amended to correct the date of collection on sample 1203007-04 from 03/07/12 to 03/06/12.

The reporting limit for these compounds is 2 mg/L. The nominal detection limit is 0.5 mg/L. There were no compounds detected between the detection limit and the reporting limit.

On the day the samples were analyzed propylene glycol was left out of the Blank Spike (BS). Both ethylene and propylene glycol were spiked into the MS/MSD and the recoveries were acceptable. Because the MS/MSD can substitute for the BS in the method the samples were not reanalyzed. A blank and BS were reanalyzed additionally at a later date and results were acceptable. No targets were detected in the samples.

Concentrations reported in the QC have changed slightly since the draft report was issued due to a minor change in the calibration and an adjustment to the volume used for the matrix spikes determined during the final data review process.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin
Region 6 Laboratory Manager

David Neleigh
Region 6 Laboratory Branch Chief

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Dimock Residential Groundwater Site Project Number: 12SF073

Data Management Coordinator: Christy Warren

Christy Warren 5/2/12

Data Management Coordinator Signature Date

Date Transmitted: 5/2/12

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

_____ / ____ / ____

Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

_____ _____

Signature Date

Please provide a reason for holding:

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
FB19	1203005-01	Liquid	3/5/12 9:36	03/07/12 09:50
HW56	1203005-02	Liquid	3/5/12 16:54	03/07/12 09:50
HW60	1203005-03	Liquid	3/5/12 12:25	03/07/12 09:50
FB20	1203007-01	Liquid	3/6/12 14:00	03/08/12 09:00
HW61	1203007-02	Liquid	3/6/12 15:42	03/08/12 09:00
HW61-P	1203007-03	Liquid	3/6/12 16:00	03/08/12 09:00
HW61z	1203007-04	Liquid	3/6/12 15:42	03/08/12 09:00
FB21	1203012-01	Liquid	3/8/12 13:38	03/09/12 09:30
HW50	1203012-02	Liquid	3/8/12 15:09	03/09/12 09:30

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-01 **Station ID: FB19**

Batch: B2C0702 Date Collected: 03/05/12
Sample Type: Liquid Sample Vol: 1ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-02 **Station ID: HW56**

Batch: B2C0702 Date Collected: 03/05/12
Sample Type: Liquid Sample Vol: 1ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-03 **Station ID: HW60**

Batch: B2C0702 Date Collected: 03/05/12
Sample Type: Liquid Sample Vol: 1ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-01 **Station ID: FB20**

Batch: B2C0702 Date Collected: 03/06/12
Sample Type: Liquid Sample Vol: 1ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-02 **Station ID: HW61**

Batch: B2C0702 Date Collected: 03/06/12
Sample Type: Liquid Sample Vol: 1ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-03 **Station ID: HW61-P**

Batch: B2C0702 Date Collected: 03/06/12
Sample Type: Liquid Sample Vol: 1ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-04 **Station ID: HW61z**

Batch: B2C0702 Date Collected: 03/06/12
Sample Type: Liquid Sample Vol: 1ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-01 **Station ID: FB21**

Batch: B2C0702 Date Collected: 03/08/12
Sample Type: Liquid Sample Vol: 1ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-02 **Station ID: HW50**

Batch: B2C0702 Date Collected: 03/08/12
Sample Type: Liquid Sample Vol: 1ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702 **Sample Type: Liquid**

Blank (B2C0702-BLK1)
Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit
Propylene glycol	U		2.0
Ethylene glycol	U		2.0

Blank (B2C0702-BLK2)
Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit
Propylene glycol	U		2.0
Ethylene glycol	U		2.0

LCS (B2C0702-BS1)
Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Ethylene glycol	53.0		2.0	50.0	106	70-130

LCS (B2C0702-BS2)
Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Propylene glycol	50.6		2.0	50.0	101	70-130
Ethylene glycol	58.0		2.0	50.0	116	70-130

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702 **Sample Type: Liquid**

Matrix Spike (B2C0702-MS1)

Source: 1203005-02 Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Propylene glycol	55.7		2.0	66.7		83.6	70-130
Ethylene glycol	67.6		2.0	66.7		101	70-130

Matrix Spike Dup (B2C0702-MSD1)

Source: 1203005-02 Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Propylene glycol	53.7		2.0	66.7		80.6	70-130	3.61	30
Ethylene glycol	67.5		2.0	66.7		101	70-130	0.08	30

Environmental Protection Agency
Region 6 Laboratory
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Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
Date Shipped: 3/6/2012
Carrier Name: FedEx
Airbill No. 7981 3469 3833

CHAIN OF CUSTODY RECORD

Case #: CT5928

No: 3-030612-085615-0247
Lab: EPA R6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 2819832137

Sample #	Matrix/Samples	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
F819	Aqueous (not Monsoon)	Grab	Ethylene Glycol, Ethylene Glycol	19052 (-NA- / 40mlGlassVial), 19053 (-NA- / 40mlGlassVial) (2)	F819	03/05/2012 08:35	
HW56	Drinking Water/ Mike Fenter	Grab	Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol	19119 (-NA- / 40mlGlassVial), 19120 (-NA- / 40mlGlassVial), 19139 (-NA- / 40mlGlassVial), 19139 (-NA- / 40mlGlassVial), 19140 (-NA- / 40mlGlassVial), 19141 (-NA- / 40mlGlassVial) (6)	HW56	03/05/2012 15:54	
HW60	Drinking Water/ Mike Fenter	Grab	Ethylene Glycol, Ethylene Glycol	19095 (-NA- / 40mlGlassVial), 19096 (-NA- / 40mlGlassVial) (2)	HW60	03/05/2012 12:25	

Sample(s) to be used for Lab QC: HW56

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
10	D. Glassmore	3/6/12	Isaac Harris	3/7/12	9:50						

Sample Temp: 6°C

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 3-030712-111413-0253

Date/Shipped: 3/7/2012
Carrier/Name: FedEx
Airbill No: 7981 4976 7686

Case #: CT5928

Lab: EPA R6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB20	Aqueous/ Joel Nutson	Grab	Ethylene Glycol, Ethylene Glycol	19242 (-NA- / 40mlGlassVial), 19243 (-NA- / 40mlGlassVial) (2)	FB20	03/06/2012 14:00	
HW61	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19172 (-NA- / 40mlGlassVial), 19173 (-NA- / 40mlGlassVial) (2)	HW61	03/06/2012 15:42	
HW61-P	Drinking Water/ Brian Burns	Grab	Ethylene Glycol, Ethylene Glycol	19216 (-NA- / 40mlGlassVial), 19217 (-NA- / 40mlGlassVial) (2)	HW61-P	03/06/2012 16:00	
HW61z	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19198 (-NA- / 40mlGlassVial), 19199 (-NA- / 40mlGlassVial) (2)	HW61	03/06/2012 15:42	

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
8	[illegible]	3/7/12	[illegible]	3/8/12	9:00						

Sample Temp: 4°C

DIM0122263
DIM0122315

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 3-030812-165546-0262

Date/Shipped: 3/6/2012
Carrier/Name: FedEx
Airbill No: 7951 4835 1286

Case #: CT5922

Lab: EPA R6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB21	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	18980 (-NA- / 40ml/GlassVial), 18981 (-NA- / 40ml/GlassVial) (2)	FB21	03/06/2012 15:38	
HW50	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	18999 (-NA- / 40ml/GlassVial), 19000 (-NA- / 40ml/GlassVial) (2)	HW50	03/06/2012 15:09	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4	[signature]	3/8/12	[signature] Davis	3/9/12	9:30						

Sample Temp: 4°C

DIM0122263

DIM0122316

Environmental Protection Agency

Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Notes and Definitions

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

LIMS Final Report Checklist

Project Name:	Dimock Residential Groundwater
Project Number:	12SF073
Work Order Numbers:	1203005, 1203007, 1203012
Report Format:	R6 Chem (31).rpt

To correct the date of collection on sample 1203007-04 from 3/7/12 to 3/6/12.

	Yes	No	N/A
1. Is the site name correct on the printed report?	✓		
2. Is the Project Number correct on the printed report?	✓		
3. Are the sample collection dates correctly printed on the report?	✓		
4. Is the correct contact person printed on the report?	✓		
5. Are the Work Order Number(s) correct on the printed report?	✓		
6. Are the correct Work Orders included in the report?	✓		
7. Are the Station IDs correct on the printed report?	✓		
8. Is all appropriate sample data printing on the report?	✓		
9. Is all of the case narrative printing on the report?	✓		
10. Did all of the pages of the report print? Are they all numbered? P16 of 16	✓		
11. If TCEQ parameters were requested has the transfer file been stored in the LIMS and is the data printing correctly on the final report?			✓
12. Has the EDD been created and saved?	✓		
13. Has the PDF of the final report been created and saved?	✓		

Reviewed By: Christy Warren Date: HAW 5/1/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 6 Laboratory
Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Amended Final Analytical Report

Site Name ----------Dimock Residential Groundwater Site

Sample Collection Date(s)-- 03/05/12 - 03/08/12

Contact---------- Cynthia Caporale (3EA21)

Report Date---------- 04/04/12

Project #---------- 12SF073

Work Order(s)---------- 1203005
1203007
1203012

Analyses included in this report:

ABN Glycols

Report Narrative

This report has been amended to correct the units in the case narrative from ug/L to mg/L.

The reporting limit for these compounds is 2 mg/L. The nominal detection limit is 0.5 mg/L. There were no compounds detected between the detection limit and the reporting limit.

On the day the samples were analyzed propylene glycol was left out of the Blank Spike (BS). Both ethylene and propylene glycol were spiked into the MS/MSD and the recoveries were acceptable. Because the MS/MSD can substitute for the BS in the method the samples were not reanalyzed. A blank and BS were reanalyzed additionally at a later date and results were acceptable. No targets were detected in the samples.

Concentrations reported in the QC have changed slightly since the draft report was issued due to a minor change in the calibration and an adjustment to the volume used for the matrix spikes determined during the final data review process.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin
Region 6 Laboratory Manager

David Neleigh
Region 6 Laboratory Branch Chief

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Dimock Residential Groundwater Site Project Number: 12SF073

Data Management Coordinator: Christy Warren

Christy Warren 4/5/12

Data Management Coordinator Signature Date

Date Transmitted: 4/5/12

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

_____ /____/_____

Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

_____ _____

Signature Date

Please provide a reason for holding:

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
FB19	1203005-01	Liquid	3/5/12 9:36	03/07/12 09:50
HW56	1203005-02	Liquid	3/5/12 16:54	03/07/12 09:50
HW60	1203005-03	Liquid	3/5/12 12:25	03/07/12 09:50
FB20	1203007-01	Liquid	3/6/12 14:00	03/08/12 09:00
HW61	1203007-02	Liquid	3/6/12 15:42	03/08/12 09:00
HW61-P	1203007-03	Liquid	3/6/12 16:00	03/08/12 09:00
HW61z	1203007-04	Liquid	3/7/12 15:42	03/08/12 09:00
FB21	1203012-01	Liquid	3/8/12 13:38	03/09/12 09:30
HW50	1203012-02	Liquid	3/8/12 15:09	03/09/12 09:30

Environmental Protection Agency
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-01 **Station ID: FB19**

Batch: B2C0702 Date Collected: 03/05/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-02 **Station ID: HW56**

Batch: B2C0702 Date Collected: 03/05/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-03 **Station ID: HW60**

Batch: B2C0702
Sample Type: Liquid

Date Collected: 03/05/12
Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-01 **Station ID: FB20**

Batch: B2C0702 Date Collected: 03/06/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-02 **Station ID: HW61**

Batch: B2C0702 Date Collected: 03/06/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-03 **Station ID: HW61-P**

Batch: B2C0702 Date Collected: 03/06/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-04 **Station ID: HW61z**

Batch: B2C0702 Date Collected: 03/07/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
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Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-01 **Station ID: FB21**

Batch: B2C0702 Date Collected: 03/08/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-02 **Station ID: HW50**

Batch: B2C0702 Date Collected: 03/08/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702 **Sample Type: Liquid**

Blank (B2C0702-BLK1)
Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit
Propylene glycol	U		2.0
Ethylene glycol	U		2.0

Blank (B2C0702-BLK2)
Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit
Propylene glycol	U		2.0
Ethylene glycol	U		2.0

LCS (B2C0702-BS1)
Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Ethylene glycol	53.0		2.0	50.0	106	70-130

LCS (B2C0702-BS2)
Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Propylene glycol	50.6		2.0	50.0	101	70-130
Ethylene glycol	58.0		2.0	50.0	116	70-130

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Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702 **Sample Type: Liquid**

Matrix Spike (B2C0702-MS1)

Source: 1203005-02 Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Propylene glycol	55.7		2.0	66.7		83.6	70-130
Ethylene glycol	67.6		2.0	66.7		101	70-130

Matrix Spike Dup (B2C0702-MSD1)

Source: 1203005-02 Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Propylene glycol	53.7		2.0	66.7		80.6	70-130	3.61	30
Ethylene glycol	67.5		2.0	66.7		101	70-130	0.08	30

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USEPA CLP Generic COC (LAB COPY)
DateShipped: 3/6/2012
Carrier Name: FedEx
Airbill No: 7981 3489 3053

CHAIN OF CUSTODY RECORD

Case #: CY5928

No: 3-030612-085615-4247
Lab: EPA R6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB19	Aqueous/ Joel Monson	Grab	Ethylene Glycol, Ethylene Glycol	19082 (-NA- / 40mlGlassVial), 19083 (-NA- / 40mlGlassVial) (2)	FB19	03/05/2012 09:38	
HW56	Drinking Water/ Mike Ferries	Grab	Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol	19119 (-NA- / 40mlGlassVial), 19120 (-NA- / 40mlGlassVial), 19138 (-NA- / 40mlGlassVial), 19139 (-NA- / 40mlGlassVial), 19140 (-NA- / 40mlGlassVial), 19141 (-NA- / 40mlGlassVial) (6)	HW56	03/05/2012 16:54	
HW60	Drinking Water/ Mike Ferries	Grab	Ethylene Glycol, Ethylene Glycol	19085 (-NA- / 40mlGlassVial), 19086 (-NA- / 40mlGlassVial) (2)	HW60	03/05/2012 12:25	

Sample(s) to be used for Lab QC: HW56

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
10	[illegible]	3/6/12	Sarah Harris	3/7/12	9:30						

Sample Temp: 6°C

DIM0122263
DIM0122334

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 3/7/2012
CarrierName: FedEx
AirbillNo: 7981 4076 7656

CHAIN OF CUSTODY RECORD

Case #: CT5928

No: 3-030712-111413-0253
Lab: EPA R6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 2819532137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB20	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	19242 (-NA- / 40mlGlassVial), 19243 (-NA- / 40mlGlassVial) (2)	FB20	03/06/2012 14:00	
HW61	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19172 (-NA- / 40mlGlassVial), 19173 (-NA- / 40mlGlassVial) (2)	HW61	03/06/2012 16:42	
HW61-P	Drinking Water/ Brian Burns	Grab	Ethylene Glycol, Ethylene Glycol	19216 (-NA- / 40mlGlassVial), 19217 (-NA- / 40mlGlassVial) (2)	HW61-P	03/06/2012 16:00	
HW61z	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19195 (-NA- / 40mlGlassVial), 19196 (-NA- / 40mlGlassVial) (2)	HW61	03/06/2012 16:42	

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
8	[signature]	3/7/12	[signature]	3/8/12	9:00						

Sample Temp: 4°C

DIM0122263
DIM0122335

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 3/8/2012
CarrierName: FedEx
AirbillNo: 7081 4835 1268

CHAIN OF CUSTODY RECORD

Case #: CT5928

No: 3-030812-165546-0262
Lab: EPA R6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 3819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB21	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	18960 (-NA- / 40mlGlassVial), 18961 (-NA- / 40mlGlassVial) (2)	FB21	03/08/2012 15:38	
HW50	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	18999 (-NA- / 40mlGlassVial), 19000 (-NA- / 40mlGlassVial) (2)	HW50	03/09/2012 15:09	

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody F

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4	[signature]	3/8/12	[signature] Harris	3/9/12	9:30						

Sample Temp 14°C

DIM0122263
DIM0122336

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Notes and Definitions

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

LIMS Final Report Checklist

Project Name:	Dimock Residential Groundwater
Project Number:	12SF073
Work Order Numbers:	1203005, 1203007, 1203012
Report Format:	R6chem(30).rpt

Amended Report to correct units in case narrative from ug/L to mg/L.

	Yes	No	N/A
1. Is the site name correct on the printed report?	✓		
2. Is the Project Number correct on the printed report?	✓		
3. Are the sample collection dates correctly printed on the report?	✓		
4. Is the correct contact person printed on the report?	✓		
5. Are the Work Order Number(s) correct on the printed report?	✓		
6. Are the correct Work Orders included in the report?	✓		
7. Are the Station IDs correct on the printed report?	✓		
8. Is all appropriate sample data printing on the report?	✓		
9. Is all of the case narrative printing on the report?	✓		
10. Did all of the pages of the report print? Are they all numbered? P16 of 16	✓		
11. If TCEQ parameters were requested has the transfer file been stored in the LIMS and is the data printing correctly on the final report?			✓
12. Has the EDD been created and saved?	✓		
13. Has the PDF of the final report been created and saved?	✓		

Reviewed By: Christy Warren Date: 4/3/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 6 Laboratory
Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name ----------Dimock Residential Groundwater Site

Sample Collection Date(s)-- 03/05/12 - 03/08/12

Contact---------- Cynthia Caporale (3EA21)

Report Date---------- 03/30/12

Project #---------- 12SF073

Work Order(s)---------- 1203005
1203007
1203012

Analyses included in this report:

ABN Glycols

Report Narrative

The reporting limit for these compounds is 2 ug/L. The nominal detection limit is 0.5 ug/L. There were no compounds detected between the detection limit and the reporting limit.

On the day the samples were analyzed propylene glycol was left out of the Blank Spike (BS). Both ethylene and propylene glycol were spiked into the MS/MSD and the recoveries were acceptable. Because the MS/MSD can substitute for the BS in the method the samples were not reanalyzed. A blank and BS were reanalyzed additionally at a later date and results were acceptable. No targets were detected in the samples.

Concentrations reported in the QC have changed slightly since the draft report was issued due to a minor change in the calibration and an adjustment to the volume used for the matrix spikes determined during the final data review process.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin
Region 6 Laboratory Manager

David Neleigh
Region 6 Laboratory Branch Chief

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Dimock Residential Groundwater Site Project Number: 12SF073

Data Management Coordinator: Christy Warren

Christy Warren 3/30/12
Data Management Coordinator Signature Date

Date Transmitted: 3/30/12

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

_____ / ____ / _____
Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

_____ _____
Signature Date

Please provide a reason for holding:

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
FB19	1203005-01	Liquid	3/5/12 9:36	03/07/12 09:50
HW56	1203005-02	Liquid	3/5/12 16:54	03/07/12 09:50
HW60	1203005-03	Liquid	3/5/12 12:25	03/07/12 09:50
FB20	1203007-01	Liquid	3/6/12 14:00	03/08/12 09:00
HW61	1203007-02	Liquid	3/6/12 15:42	03/08/12 09:00
HW61-P	1203007-03	Liquid	3/6/12 16:00	03/08/12 09:00
HW61z	1203007-04	Liquid	3/7/12 15:42	03/08/12 09:00
FB21	1203012-01	Liquid	3/8/12 13:38	03/09/12 09:30
HW50	1203012-02	Liquid	3/8/12 15:09	03/09/12 09:30

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-01 **Station ID: FB19**

Batch: B2C0702 Date Collected: 03/05/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-02 **Station ID: HW56**

Batch: B2C0702 Date Collected: 03/05/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-03 **Station ID: HW60**

Batch: B2C0702 Date Collected: 03/05/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-01 **Station ID: FB20**

Batch: B2C0702 Date Collected: 03/06/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-02 **Station ID: HW61**

Batch: B2C0702 Date Collected: 03/06/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-03 **Station ID: HW61-P**

Batch: B2C0702 Date Collected: 03/06/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-04 **Station ID: HW61z**

Batch: B2C0702 Date Collected: 03/07/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-01 **Station ID: FB21**

Batch: B2C0702 Date Collected: 03/08/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-02 **Station ID: HW50**

Batch: B2C0702 Date Collected: 03/08/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702 **Sample Type: Liquid**

Blank (B2C0702-BLK1)
Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit
Propylene glycol	U		2.0
Ethylene glycol	U		2.0

Blank (B2C0702-BLK2)
Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit
Propylene glycol	U		2.0
Ethylene glycol	U		2.0

LCS (B2C0702-BS1)
Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Ethylene glycol	53.0		2.0	50.0	106	70-130

LCS (B2C0702-BS2)
Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Propylene glycol	50.6		2.0	50.0	101	70-130
Ethylene glycol	58.0		2.0	50.0	116	70-130

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702 **Sample Type: Liquid**

Matrix Spike (B2C0702-MS1)

Source: 1203005-02 Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Propylene glycol	55.7		2.0	66.7		83.6	70-130
Ethylene glycol	67.6		2.0	66.7		101	70-130

Matrix Spike Dup (B2C0702-MSD1)

Source: 1203005-02 Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Propylene glycol	53.7		2.0	66.7		80.6	70-130	3.61	30
Ethylene glycol	67.5		2.0	66.7		101	70-130	0.08	30

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 3/6/2012
CarrierName: FedEx
AirbillNo. 7981 3439 9853

CHAIN OF CUSTODY RECORD

Case #: CT5988

No: 3-030612-085615-0247
Lab: EPA R6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 2818832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB19	Aqueous/ Joel Monson	Grab	Ethylene Glycol, Ethylene Glycol	19062 (-NA- / 40mlGlassVial), 19063 (-NA- / 40mlGlassVial) (2)	FB19	03/05/2012 09:36	
HW55	Drinking Water/ Mike Farrier	Grab	Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol	19119 (-NA- / 40mlGlassVial), 19120 (-NA- / 40mlGlassVial), 19138 (-NA- / 40mlGlassVial), 19139 (-NA- / 40mlGlassVial), 19140 (-NA- / 40mlGlassVial), 19141 (-NA- / 40mlGlassVial) (6)	HW55	03/05/2012 16:54	
HW56	Drinking Water/ Mike Farrier	Grab	Ethylene Glycol, Ethylene Glycol	19065 (-NA- / 40mlGlassVial), 19066 (-NA- / 40mlGlassVial) (2)	HW56	03/05/2012 12:25	

Sample(s) to be used for Lab QC: HW56

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
10	D Giacomo	3/6/12	Isaac Harris	3/7/12	9:50						

Sample Temp: 6°C

DIM0122263
DIM0122354

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 3/7/2012
CarrierName: FedEx
AirbillNo: 7951 4078 7685

CHAIN OF CUSTODY RECORD

Case #: CT5928

No: 3-030712-111413-0253
Lab: EPA R6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB20	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	19242 (-NA- / 40mlGlassVial) 19243 (-NA- / 40mlGlassVial) (2)	FB20	03/06/2012 14:00	
HW61	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19172 (-NA- / 40mlGlassVial) 19173 (-NA- / 40mlGlassVial) (2)	HW61	03/06/2012 15:42	
HW61-P	Drinking Water/ Brian Burns	Grab	Ethylene Glycol, Ethylene Glycol	19216 (-NA- / 40mlGlassVial) 19217 (-NA- / 40mlGlassVial) (2)	HW61-P	03/06/2012 16:00	
HW61z	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19198 (-NA- / 40mlGlassVial) 19199 (-NA- / 40mlGlassVial) (2)	HW61	03/06/2012 15:42	

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
8	[illegible]	3/7/12	[illegible]	3/8/12	9:00						

Sample Temp: 4°C

DIM0122263
DIM0122355

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Page 1 of 1

USEPA CLP Generic COC (LAB COPY)
DateShipped: 3/6/2012
CarrierName: FedEx
AirbillNo: 7951 4835 1266

CHAIN OF CUSTODY RECORD

Case #: CT5928

No: 3-030812-165546-0262
Lab: EPA R6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB21	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	18980 (-NA- / 40ml/Glass/Vial), 18981 (-NA- / 40ml/Glass/Vial) (2)	FB21	03/06/2012 13:38	
HW50	Drinking Water/ Mike Ferner	Grab	Ethylene Glycol, Ethylene Glycol	18999 (-NA- / 40ml/Glass/Vial), 19000 (-NA- / 40ml/Glass/Vial) (2)	HW50	03/06/2012 15:09	

Special Instructions

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4	[illegible]	3/8/12	[illegible] Hearns	3/9/12	9:30						

Sample Temp: 4°C

DIM0122263
DIM0122356

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Notes and Definitions

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

LIMS Final Report Checklist

Project Name:	Dimock Residential Groundwater
Project Number:	12SF073
Work Order Numbers:	1203005, 1203007, 1203012
Report Format:	R6Chem (29).rpt

	Yes	No	N/A
1. Is the site name correct on the printed report?	✓		
2. Is the Project Number correct on the printed report?	✓		
3. Are the sample collection dates correctly printed on the report?	✓		
4. Is the correct contact person printed on the report?	✓		
5. Are the Work Order Number(s) correct on the printed report?	✓		
6. Are the correct Work Orders included in the report?	✓		
7. Are the Station IDs correct on the printed report?	✓		
8. Is all appropriate sample data printing on the report?	✓		
9. Is all of the case narrative printing on the report?	✓		
10. Did all of the pages of the report print? Are they all numbered? P16 of 16	✓		
11. If TCEQ parameters were requested has the transfer file been stored in the LIMS and is the data printing correctly on the final report?			✓
12. Has the EDD been created and saved?	✓		
13. Has the PDF of the final report been created and saved?	✓		

Reviewed By: Chrotz Warner Date: 3/29/12

U.S. EPA Region 6 Laboratory
Lab Manager Review Checklist

SITE NAME: Dimock Residential GW	Project #: 12SF073
	Work Order #: 1203005, 07, & 12 Date Review Started: 3/30/12

Items Reviewed	N/A	Yes	No	Fixed	Comments
1. FINAL REPORT					
A. Cover Page Narrative					
1. Electronically Reviewed?		✓			
2. Format / structure OK?		✓			
3. Consistency / Readability OK?		✓			
4. Content OK?		✓			
5. Quality issues addressed OK?		✓			
6. Narrative issues have data Qualifiers?		✓			
7. Other OK?	✓				
B. Sample Listing Page					
1. Number of Sample reports match?		✓			
2. Match the COC request OK?		✓			
2. Station ID's present for all samples?		✓			
3. Dates / matrix appear OK?		✓			
C. Analytical Results					
1. Format / Readability OK?		✓			
2. Sample size / dilutions make sense?		✓			N/A except MS/MSD
3. Reporting limits OK and match result?		✓			
4. Unusual results addressed in narrative?		✓			
5. Qualifiers OK / addressed in narrative?		✓			
6. Other OK?	✓				
D. Quality Control					
1. Surrogate Problems addressed / OK?					
Organic - Air					
Organic - VOA					
Organic - ABN					
Organic - Pest/PCB					
Organic - Herbicide					
2. Lab Blank Issues addressed / OK?					
Organic - Air					
Organic - VOA					
Organic - ABN – DI Glycols		✓			
Organic - Pest/PCB					

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SITE NAME:				Project #:	
				Work Order #: Date Review Started:	
Organic - Herbicide					
Inorganic - GFAA					
Inorganic - ICP					
Inorganic - ICP/MS					
Inorganic - Hg					
EPA Wet Chems					
Other?					
3. LCS Problems addressed / OK?					
Organic - Air					
Organic - VOA					
Organic - ABN - DI Glycols		✓			MS/MSD ok.
Organic - Pest/PCB					
Organic - Herbicide					
Inorganic - GFAA					
Inorganic - ICP					
Inorganic - ICP/MS					
Inorganic - Hg					
EPA Wet Chems					
Other?					
4. Matrix Spike Problems addressed / OK?					
Organic - Air					
Organic - VOA					
Organic - ABN - DI Glycols		✓			
Organic - Pest/PCB					
Organic - Herbicide					
Inorganic - GFAA					
Inorganic - ICP					
Inorganic - ICP/MS					
Inorganic - Hg					
EPA Wet Chems					
Other?					
5. Other Control Issues addressed / OK?					
Biology					
t-test criteria ok?					
Wilcoxon criteria ok?					
mortality matches?					
wet chems ok?					
Other					

Version 2.7

SITE NAME:	Project #:
	Work Order #: Date Review Started:

E. Project Manager Review Issues					
Prep Holding times addressed / OK?		✓			
Analytic Hold Times addressed / OK?		✓			
Dates make sense?		✓			
Important Issues addressed / OK?		✓			
F. Comments Section					
Important Comments addressed / OK?		✓			
G. LIMS Issues					
LIMS functions OK?		✓			
2. COC Cursory Review OK?		✓			
3. Work Order Cursory Review OK?		✓			
4. Bench Sheets/Work Sheets Cursory Review OK?		✓			
5. Check Lists Cursory Review OK?		✓			
6. Log Book Copies Cursory Review OK?		✓			
7. CORRECTIVE ACTION INITIATED?	✓		✓		
8. LIMS Sign-off?		✓			

GENERAL COMMENTS:

SIGNATURE : Richard McMillin	**DATE Completed:** 3/30/12

NA = Not applicable

*Grey shaded areas indicate action is needed.

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Sample Log-In Peer Review Checklist

Site Name: Dimock Residential Groundwater	Project Number: 12SF073			
	Work Order Numbers: 1203005, 1203007, 1203012			
Are the following items in the report folder?	Yes	No	N/A	Comments
Chain of Custody	✓			
Shipping Airbill	✓			
Work Order	✓			
Sample Log In/Corrective Action Form	✓			
Is the Chain of Custody Signed to accept custody of samples?	✓			
Did the Chain of Custody reflect samples which were scheduled?	✓			
Were any discrepancies noted on the Sample Log In/Corrective Action Form?		✓		
Are the samples logged into the LIMS correctly?	✓			
Are the samples on the Status Report?	✓			
Are the samples deleted from the sample expected list on the Status Report?	✓			
Is the Site Information on the Work Order correct?	✓			
Are the samples logged into the Project and Sample Log In Logbooks?	✓			

Narrative/Comments:

SCC-POC Signature: Christy Warner Date: 3/15/12