U.S EPA Region III Analytical Request Form

Revision 11.09

OASQA USE ONLY			
Control#		RAS #	
DAS#		NSF #	
BES #		Analytical TAT	

Date: 02/27/2012	Site Activity: Removal Site Evaluation		
Site Name: Dimock Residential Groundwater Site		Street Address: PA RT 229 @ 2024	
City: Dimock	State: PA 18847	Latitude:	Longitude:
Program: Superfund	Acct. #: 2012 T03N 303DC6 A3TA RS00	CERCLIS #: Unknown	
Site ID: N/A	Spill ID: A3TA	Operable Unit:	
Site Specific QA Plan Submitted: ☐ No ☒ Yes Title: Residential Well Sampling QA/QC Work Plan		Date Approved: January 9, 2012	
EPA Project Leader: Rich Fetzer	Phone#: 215-341-6307	Cell Phone #: 215-341-6307	E-mail: fetzer.richard@epa.gov
Request Preparer: Gene Nance	Phone#: 740-867-0968	Cell Phone #: 304-830-1442	E-mail: gnance@techlawinc.com
Site Leader: Suddha Graves	Phone#: 304-230-1230	Cell Phone #: 304-830-1441	E-mail: sgraves@techlawinc.com
Contractor: TechLaw, Inc.	EPA CO/PO: Denise T. Jones/Karen Esposito		
#Samples 10-20	Matrix: drinking water	Parameter: MBAS	Method: SM 5540C
#Samples 10-20	Matrix: drinking water	Parameter: Dissolved gases: methane,ethane,propane,butane	Method: RSK-175
#Samples 10-20	Matrix: drinking water	Parameter: DRO	Method: 8015D
#Samples 10-20	Matrix: drinking water	Parameter: GRO	Method: 8015D
Ship Date From: March 6, 2012	Ship Date To: March 15, 2012	Org. Validation Level M3	Inorg. Validation Level IM2
Unvalidated Data Requested: ☐ No ☒ Yes If Yes, TAT Needed: ☐ 24hrs ☐ 48hrs ☐ 72hrs ☒ 7days ☐ Other (Specify) **See comments for PRs/expedited TATs**			
Validated Data Package Due: ☐ 14 days ☒ 21 days ☐ 35 days ☐ 42 days ☐ Other (Specify)			
Electronic Data Deliverables Required: ☐ No ☒ Yes (EDDs will be provided in Region 3 EDD Format) if available			

DIM0200735

~~#Samples 12~~	~~Matrix: drinking water~~	~~Parameter: Alcohols~~	~~Method: SM 8015D~~
~~#Samples 12~~	~~Matrix: drinking water~~	~~Parameter: Total Phosphorus~~	~~Method: EPA 365.4 (Modified)~~
~~#Samples 12~~	~~Matrix: drinking water~~	~~Parameter: Total Mercury~~	~~Method: EPA 245.1~~
~~#Samples 12~~	~~Matrix: drinking water~~	~~Parameter: Dissolved Mercury~~	~~Method: EPA 245.1~~

Ship Date From: March 6, 2012	Ship Date To: March 15, 2012	Org. Validation Level M3	Inorg. Validation Level IM2

Unvalidated Data Requested: ☐ No ☒ Yes If Yes, TAT Needed: ☐ 24hrs ☐ 48hrs ☐ 72hrs ☒ 7days ☐ Other (Specify) **See comments for PRs/expedited TATs**

Validated Data Package Due: ☐ 14 days ☒ 21 days ☐ 35 days ☐ 42 days ☐ Other (Specify)

Electronic Data Deliverables Required: ☐ No ☒ Yes (EDDs will be provided in Region 3 EDD Format) if available

Special Instructions:
The RLs/QLs are attached (R3 Dimock RLs_Jan 19_2012)

TICs required for VOC and SVOC analysis.

Request Preliminary Results (PRs)/expedited TAT of **5 days** for the following parameters, if feasible:
(SVOCs) bis(2-ethylhexyl)phthalate
(Glycols) Triethylene glycol and Diethylene glycol and 2-Methoxyethanol
(Total Metals) Al, As, Li, Mn, Na, and Fe.

Data will be entered into SCRIBE.

FORM ARF- 11/09

U.S EPA Region III Analytical Request Form

Revision 11.09

OASQA USE ONLY			
Control #		RAS#	
DAS#		NSF #	
PES #		Analytical TAT	

Date: 02/27/2012	Site Activity: Removal Site Evaluation		
Site Name: Dimock Residential Groundwater Site		Street Address: PA RT 229 @ 2024	
City: Dimock	State: PA 18847	Latitude:	Longitude:
Program: Superfund	Acct. #: 2012 T03N 303DC6 A3TA RS00	CERCLIS #: Unknown	
Site ID: N/A	Spill ID: A3TA	Operable Unit:	
Site Specific QA Plan Submitted: ☐ No ☒ Yes	Title: Residential Well Sampling QA/QC Work Plan		Date Approved: January 9, 2012
EPA Project Leader: Rich Fetzer	Phone#: 215-341-6307	Cell Phone #: 215-341-6307	E-mail: fetzer.richard@epa.gov
Request Preparer: Gene Nance	Phone#: 740-867-0968	Cell Phone #: 304-830-1442	E-mail: gnance@techlawinc.com
Site Leader: Suddha Graves	Phone#: 304-230-1230	Cell Phone #: 304-830-1441	E-mail: sgraves@techlawinc.com
Contractor: TechLaw, Inc.	EPA CO/PO: Denise T. Jones/Karen Esposito		

#Samples 12	Matrix: drinking water	Parameter: Total Metals (ICP-AES/ICP-MS)	Method: EPA 200.7/200.8
~~#Samples 12~~	~~Matrix: drinking water~~	~~Parameter: Dissolved Metals; (ICP-AES/ICP-MS)~~	~~Method: EPA 200.7/200.8~~
#Samples 12	Matrix: drinking water	Parameter: TDS	Method: SM 2540C
#Samples 12	Matrix: drinking water	Parameter: TSS	Method: SM 2540D
#Samples 12	Matrix: drinking water	Parameter: Gylcols (plus 2-Butoxyethanol and 2-methoxyethanol)	Method: SW 8321 (Modified)
#Samples 12	Matrix: drinking water	Parameter: Anions	Method: EPA 300.0
#Samples 12	Matrix: drinking water	Parameter: Nitrate+Nitrite combined	Method: EPA 353.2 (LACHAT 10-107-04-1C)
#Samples 12	Matrix: drinking water	Parameter: Total Nitrogen	Method: EPA 353.2 (LACHAT 10-107-04-4A)
#Samples 12	Matrix: drinking water	Parameter: VOC (plus Acrylonitrile)	Method: CLP OLC03.2 includes TICs
#Samples 12	Matrix: drinking water	Parameter: SVOC (plus 1-methylnaphthalene)	Method: SW-846 3520C/8270D includes TICs

Special Instructions:
The RLs/QLs are attached (R3 Dimock RLs March 2012)

TICs required for VOC and SVOC analysis.

Request Preliminary Results (PRs)/expedited TAT of **5 days** for the following parameters, if feasible:
(SVOCs) bis(2-ethylhexyl)phthalate
(Glycols) Triethylene glycol and Diethylene glycol and 2-Methoxyethanol
(Total Metals) Al, As, Li, Mn, Na, and Fe.

Data will be entered into SCRIBE.

FORM ARF- 11/09

Methods for Surface Water Samples

Analyte Group	Matrix	Technique	Reference Method	Routine Reporting Levels
Alcohols Methanol Ethanol 1-Propanol 1-Butanol 2-Butanol	Non-potable water	GC-FID	SM 8015D	10 mg/L
Ethylene Glycol	Non-potable water	GC-FID	SM 8015B	10 mg/L
MBAS	Water			0.01 mg/L
Inorganic ions - Bromide Chloride Fluoride Ortho-phosphate as P Sulfate as SO4	Non-potable water	Ion Chromatography	EPA 300.0	 0.5 mg/L 0.25 mg/L 0.1 mg/L 0.25 mg/L 0.5 mg/ L
Mercury		Cold Vapor Spectrometry	EPA 245.1	0.2 µg/L
Nitrate/Nitrite	Non-potable water	Digestion of all forms of Nitrogen followed by automated colorimetric analysis	LACHAT 10-107-04-1C (EPA 353.2)	0.05 mg/L
Total Nitrogen			LACHAT 10-107-04-4A (EPA 353.2)	1 mg/L
Phosphorus - Total	Non-potable water	Colorimetric - automated	EPA 365.1	0.05 mg/L
Residue -TDS	Non-potable water	Gravimetric	SM 2540C	10 mg/L
Residue -TSS	Non-potable water	Gravimetric	SM 2540D	10 mg/L
Coliform	Water			<1 cfu/100ml

SM = Standard Methods
SW = SW846 method
EPA = EPA method

Region 3 Shale Gas Salient Issues

Compilation For Week Ending Jan. 20, 2012

Non-responsive

Non-responsive

Non-responsive

Draft Internal Agency Document – Do Not Release or Distribute

Region 3 Shale Gas Salient Issues

Compilation For Week Ending Jan. 20, 2012

HSCD

EPA Region 3 Performs Residential Water Sampling in Dimock - On January 19, 2012, EPA Region 3 announced that it would begin water sampling of 61 homes in the Dimock, PA area. EPA's decision to conduct sampling is based on EPA's review of data provided by residents, Cabot Oil and Gas, and the Pennsylvania Department of Environmental Protection. In addition, EPA is taking action to ensure delivery of temporary water supplies to four homes where data reviewed by EPA indicates that residents' well water contains levels of contaminants that pose a health concern. EPA will re-evaluate this decision when it completes sampling of the wells at these four homes. Current information on other wells does not support the need for alternative water at this time. Many national and local news outlets, including the Washington Post, published articles or aired segments regarding this announcement. **(J. Schafer, 4-5143)**

OSCR

Congressional Outreach on Water Sampling in Dimock, Pennsylvania -- On Thursday, January 19, 2012, the Pennsylvania Liaison contacted staff from the offices of Senator Casey and U.S. Representative Marino regarding EPA Region III plans to begin water sampling and provide water to some residences in Dimock, Pennsylvania. Dimock is located in Congressman Marino's district. Senator Casey's staff had made several inquiries requesting updates on the survey that began in the area in late December. In addition to this targeted outreach, the Region's press release was shared with staff of the rest of the Pennsylvania Congressional delegation. As of Friday morning, there have been no follow-up inquiries. **(Jennie Saxe, 215-814-5806)**

OPA

EPA Announcement on Dimock Triggers Media Blitz - A Region 3 news release announcing EPA plans to perform water sampling at 61 homes in Dimock, Pa. led to numerous media inquiries from local and national news media including Associated Press, Philadelphia Inquirer, Scranton Times-Tribune, Pittsburgh Post-Gazette, and CBS-News. EPA's decision to conduct sampling was based on EPA's review of data provided by residents, Cabot Oil and Gas, and the Pennsylvania Department of Environmental Protection. The news release also announced that EPA is taking action to ensure delivery of temporary water supplies to four homes where data indicates residents' well water contains levels of contaminants that pose a health concern. As part of the media rollout, RA Shawn Garvin provided background interviews to reporters from the Philadelphia Inquirer and the Scranton Times-Tribune. Much of the news coverage focused on how Dimock residents were pleased to see that EPA was getting more involved in assessing water quality in their community. **(Roy Seneca, 814-5567 and Terri White, 814-5523)**

WRK U.S. EPA Region 3 2/2/2012 13:44

SAMPLE	SAMPLENAME
1201013	1 FB01
1201013	2 FB01-F
1201013	3 HW19
1201013	4 HW19-F
1201013	5 HW19-P
1201013	6 HW19-PF
1201013	7 FB02
1201013	8 FB02-F
1201013	9 HW04
1201013	10 HW04-F
1201013	11 TB01
1201013	12 FB03
1201013	13 HW02
1201013	14 HW02z
1201013	15 HW01
1201013	16 HW05
1201013	17 HW06
1201013	18 HW06-F
1201013	19 FB03F
1201013	~~20 HW12~~ Conx
1201013	21 HW02z-F
1201013	22 HW01-F
1201013	23 HW02-F
1201013	24 HW05-F
1201013	25 TB02
1201013	26 TB03
1201013	27 HW08a-F
1201013	28 HW08a
1201013	29 FB04
1201013	30 FB05
1201013	31 HW24
1201013	32 HW24-P
1201013	33 HW12
1201013	34 HW17
1201013	35 HW14
1201013	36 HW14-P
1201013	37 FB04-F
1201013	38 FB05-F
1201013	39 HW12-F
1201013	40 HW17-F
1201013	41 HW14-F
1201013	42 HW24-PF
1201013	43 HW24-F
1201013	44 HW14-PF
1201013	45 TB05
1201013	46 TB07
1201013	47 TB06
1201013	48 TB04

All submitted

WRK U.S. EPA Region 3 2/2/2012 13:45

SAMPLE	SAMPLENAME
1201015	1 EB01
1201015	2 FB06
1201015	3 HW18
1201015	4 HW13
1201015	5 HW18-P
1201015	6 HW18-F
1201015	7 EB01-F
1201015	8 FB06-F
1201015	9 HW13-F
1201015	10 HW18-PF
1201015	11 HW25-P
1201015	12 HW25-PF
1201015	13 HW26-P
1201015	14 HW26-PF
1201015	15 HW26
1201015	16 HW26-F
1201015	17 HW35
1201015	18 HW35-F
1201015	19 HW20
1201015	20 HW20-F
1201015	21 HW20-P
1201015	22 HW20-PF
1201015	23 TB08
1201015	24 TB09
1201015	25 HW32
1201015	26 HW32-P
1201015	27 HW32-PF
1201015	28 TB13
1201015	29 HW32-F
1201015	30 HW33
1201015	31 HW33a-P
1201015	32 HW33a-PF
1201015	33 HW33b-P
1201015	34 HW33-F
1201015	35 TB12
1201015	36 HW33b-PF
1201015	37 HW29z
1201015	38 HW29z-F
1201015	39 HW29
1201015	40 HW29-F
1201015	41 HW52
1201015	42 HW52-F
1201015	43 FB07
1201015	44 FB07-F
1201015	45 TB10
1201015	46 TB11

Metals submitted
Glycols

Organics – Mon

Inorganics – Mon

WRK U.S. EPA Region 3 2/7/2012 15:51

SAMPLE	SAMPLENAME
1202001	1 HW42
1202001	2 HW42-F
1202001	3 HW46
1202001	4 HW46-F
1202001	5 HW46-P
1202001	6 TB15
1202001	7 FB09
1202001	8 FB08
1202001	9 FB08-F
1202001	10 HW34a
1202001	11 HW34a-F
1202001	12 FB09-F
1202001	13 HW42z
1202001	14 HW42z-F
1202001	15 TB16
1202001	16 HW46-PF
1202001	17 HW34a-P
1202001	18 HW34a-PF
1202001	19 TB14
1202001	20 HW28a
1202001	21 HW28a-F
1202001	22 HW28a-P
1202001	23 HW39
1202001	24 HW39-P
1202001	25 HW39-PF
1202001	26 HW40
1202001	27 HW40-F
1202001	28 HW40-P
1202001	29 HW40-PF
1202001	30 HW41
1202001	31 HW41-F
1202001	32 HW41-P
1202001	33 HW41-PF
1202001	34 TB17
1202001	35 TB18
1202001	36 TB19
1202001	37 HW28b-PF
1202001	38 HW28a-PF
1202001	39 HW39-F
1202001	40 HW09-PF
1202001	41 FB10-F
1202001	42 HW09-F
1202001	43 HW28b-P
1202001	44 HW09
1202001	45 HW09-P
1202001	46 FB10
1202001	47 TB20
1202001	48 HW39-P - VOA only
1202001	49 TB21
1202001	50 TB22
1202001	51 HW39-RO

Metals/Glycols –

Organics

Inorganics

WRK U.S. EPA Region 3 2/9/2012 13:35

SAMPLE	SAMPLENAME
1202003	1 HW45
1202003	2 HW45-P
1202003	3 HW43-P
1202003	4 HW43
1202003	5 EB02
1202003	6 HW45-F
1202003	7 HW45-PF
1202003	8 HW43-F
1202003	9 EB02-F
1202003	10 HW43-PF
1202003	11 TB23
1202003	12 TB24
1202003	13 HW15a-P
1202003	14 HW31-P
1202003	15 HW30
1202003	16 HW30-P
1202003	17 HW31
1202003	18 FB11
1202003	19 HW31z
1202003	20 HW15a
1202003	21 TB25
1202003	22 TB26
1202003	23 TB28
1202003	24 HW30-PF
1202003	25 HW15a-F
1202003	26 HW31-F
1202003	27 HW31z-F
1202003	28 HW30-F
1202003	29 HW31-PF
1202003	30 HW15a-PF
1202003	31 FB11-F
1202003	32 HW38-P
1202003	33 FB13
1202003	34 FB12
1202003	35 HW47
1202003	36 HW51
1202003	37 HW38
1202003	38 HW51-P
1202003	39 HW47-P
1202003	40 HW51-PF
1202003	41 HW38-F
1202003	42 HW47-PF
1202003	43 HW38-PF
1202003	44 FB13-F
1202003	45 FB12-F
1202003	46 HW51-F
1202003	47 HW47-F
1202003	48 TB30
1202003	49 TB27
1202003	50 TB29

Metals/~~Glycols~~ submitted

Organics/Glycols

Inorganics

WRK U.S. EPA Region 3 2/13/2012 16:21

SAMPLE	SAMPLENAME
1202004	1 HW48
1202004	2 HW48-F
1202004	3 HW48z
1202004	4 HW48z-F
1202004	5 TB31
1202004	6 HW21
1202004	7 HW21-F
1202004	8 HW21z
1202004	9 HW21z-F
1202004	10 TB33
1202004	11 HW23-P
1202004	12 TB32
1202004	13 HW22
1202004	14 HW22-F
1202004	15 HW23
1202004	16 HW23-F
1202004	17 HW22-P
1202004	18 TB34
1202004	19 HW23-PF
1202004	20 HW22-PF
1202004	21 HW36n
1202004	22 HW49
1202004	23 HW16-P
1202004	24 HW54-P
1202004	25 FB14
1202004	26 HW16z
1202004	27 HW16
1202004	28 HW44
1202004	29 HW49-P
1202004	30 HW36n-P
1202004	31 FB15
1202004	32 HW54
1202004	33 HW36n-F
1202004	34 HW49-F
1202004	35 HW54-PF
1202004	36 HW16-PF
1202004	37 FB14-F
1202004	38 HW16z-F
1202004	39 HW16-F
1202004	40 HW44-F
1202004	41 HW54-F
1202004	42 HW36n-PF
1202004	43 HW49-PF
1202004	44 FB15-F
1202004	45 TB35
1202004	46 TB39
1202004	47 TB37
1202004	48 TB38
1202004	49 TB36

Metals/Glycols

Organics

Inorganics

DIMOCK MATRIX

Team Members

HSCD:
Ron Borsellino
Kathy Hodgkiss
Dennis Carney
Gerald Heston
Fran Burns
Walter Wilkie
Helen Duteau
John Butler

OPA:
Mick Kulik
Joan Schafer
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WATER DIVISION:
Victoria Binetti
Karen Johnson
Bill Arguto
Ellen Schmitt

State & Congressional Liaison:
Jennie Saxe

EAID:
John Krakowiak
Cindy Caporale
Cindy Metzger
Fred Foreman

	OUTSTANDING ITEMS	STATUS: As of February 16, 2012	DATE COMPLETED
1	Ex. 5 - Deliberative		
2			
3			
4			
5			

Ex. 5 - Deliberative

6

7

8

9

10

11

Ex. 5 - Deliberative

Ex. 5 - Deliberative

1

2

3

Ex. 5 - Deliberative

Method Link

Proprietary method, SOP R3QA102
http://www.epa.gov/osw/hazard/testmethods/pdfs/8015d_r4.pdf, SOP R3QA203
https://www.nemi.gov/apex/f?p=237:45:1026167619929406::NO:::, SOP R3QA108
https://www.nemi.gov/apex/f?p=237:45:1026167619929406::NO:::, ASTM7731-11 Proprietary method

http://www.epa.gov/osw/hazard/testmethods/sw846/pdfs/8321b.pdf, http://www.epa.gov/superfund/programs/clp/download/olc/olc32fs1.pdf

www.nemi.gov/apex/f?p=237:45:1026167619929406::NO:45::, https://www.nemi.gov/apex/f?p=237:45:1026167619929406::NO:::, SOP R3QA116, SOP R
www.nemi.gov/apex/f?p=237:45:1026167619929406::NO:45::, https://www.nemi.gov/apex/f?p=237:45:1026167619929406::NO:::, SOP R3QA116, SOP R
http://www.epa.gov/osw/hazard/testmethods/sw846/pdfs/9040c.pdf
365.4, https://www.nemi.gov/apex/f?p=237:45:1026167619929406::NO:::
http://www.epa.gov/region6/6lab/methods/353_2.pdf
http://www.epa.gov/superfund/programs/clp/download/olc/olc32fs1.pdf, SOP R3QA201
http://www.epa.gov/osw/hazard/testmethods/sw846/pdfs/8270d.pdf, SOP R3QA201
http://www.epa.gov/superfund/programs/clp/download/olc/olc32fs1.pdf, SOP R3QA210
http://water.epa.gov/scitech/methods/cwa/oil/1664.cfm, SOP R3QA163
Proprietary method, SOP R3QA105
Proprietary method, SOP R3QA106

Parameter	Laboratory	SAP Method
Alcohols: Ethanol, methanol, 1-propanol, 1-butanol, 2-butanol (8015D)	R3	EPA SW-846 8015D
Anions, Chloride, Bromide, Fluoride, Nitrate/Nitrite as N, Orthophosphorus as P, Sulfate as SO4 (300.0)	R3	EPA 300
Glycols incl. 2-Butoxyethanol (8321 Modified)	R3	EPA SW-846 8321Modified
2-Methoxyethanol (8321 and OLC03.2)	R3	EPA SW-846 8321Modified
Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, Sr, Ba, Sn, Sb, Be, Cd, Co, Tl, U, V, K, Li, Hg (200.8/245.1)	R3	EPA 245.1/200.8/200.7
Hg (245.1)	R3	EPA 245.1
Phosphorus, Total (365.1)	R3	EPA 365.1
Nitrate/Nitrite (353.2)	R3	EPA 353.2
Total Nitrogen	R3	
Semi-Volatiles (TCL plus TICs) (CLP Trace plus TICS) (OLC03.2)	R3	PA CLP OLC03.2 (similar to SW-846 8270D)
1-methylnapthalene (8270 or equivalent)	R3	PA CLP OLC03.2 (similar to SW-846 8270D)
Volatiles Incl. Acrylonitrile (TCL plus TICs) (CLP Trace - 0.5 ug/L QL) (OLC03.2)	R3	PA CLP OLC03.2 (similar to SW-846 8260B)
Oil & Grease (HEM) (1664A)	R3	EPA 1664A
Solids, Total Dissolved (TDS) (2540C)	R3	SM 2540C
Solids, Total Suspended (TSS) (2540D)	R3	SM 2540D

http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/disclaim.pdf

Parameter	SAP Method
Alcohols: Ethanol, methanol, 1-propanol, 1-butanol, 2-butanol (8015D)	EPA SW-846 8015D
Anions, Chloride, Bromide, Fluoride, Nitrate/Nitrite as N, Orthophosphorus as P, Sulfate as SO4 (300.0)	EPA 300
Glycols incl. 2-Butoxyethanol (8321 Modified)	EPA SW-846 8321Modified
2-Methoxyethanol (8321 and OLC03.2)	EPA SW-846 8321Modified
Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, Sr, Ba, Sn, Sb, Be, Cd, Co, Tl, U, V, K, Li, (200.8)	EPA 245.1/200.8/200.7
Hg (245.1)	EPA 245.1
Phosphorus, Total (365.1)	EPA 365.1
Nitrate/Nitrite ; Total Nitrogen (353.2)	EPA 353.2
Semi-Volatiles (TCL plus TICs) (CLP Trace plus TICS) (OLC03.2)	P OLC03.2 (similar to SW-846 8270D)
1-methylnapthalene (8270 or equivalent)	P OLC03.2 (similar to SW-846 8270D)
Volatiles Incl. Acrylonitrile (TCL plus TICs) (CLP Trace - 0.5 ug/L QL) (OLC03.2)	P OLC03.2 (similar to SW-846 8260B)
Oil & Grease (HEM) (1664A)	EPA 1664A
Solids, Total Dissolved (TDS) (2540C)	SM 2540C

Solids, Total Suspended (TSS) (2540D)	SM 2540D
Ethylene Glycol (8015)	SW-846 8015B
Dissolved Gases, Methane, Ethane, & Ethene (RSK-175)	RSK-17
DRO (8015M)	EPA SW-846 8015
GRO (8015M)	EPA SW-846 8015
Methylene Blue Active Substances (MBAS) (SM 5540C)	SM 5540C
$d^{13}C$ and $d^{2}H$ of methane (isotech)	Isotech Methods
$d^{13}C$ of inorganic carbon (isotech)	Isotech Methods
Stable isotopes of water (O,H) (isotech)	Isotech Methods
Complete compositional analysis of headspace gas (isotech)	Isotech Methods
Diss. gases methane, ethane, ethene (isotech)	Isotech Methods
Gamma Spec (K-40, Ra-226, Ra-228, Th-232, Th-234, U-234, U-235, U-238) (901.1)	EPA Method 901.1
Ra-226 (903.1)	EPA Method 903.1
Ra-228 (904.0)	EPA Method 904.0
Gross Alpha/Beta (900.0)	EPA Method 900.0
Bacteria (total coliform, HPC)	

Method List for TABLE 1
Prepared on 2/1/2012 by US EPA Region 3
DIMOCK RESIDENTIAL GROUNDWATER SITE
DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA

Web URL or SOP
http://www.epa.gov/epawaste/hazard/testmethods/pdfs/8015d_r4.pdf
https://www.nemi.gov/apex/f?p=237:38:1067486194907761::::P38_METHOD_ID:4680
Method Description Glycol; ASTM D7731-11; http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8321b.pdf
Method Description Glycol; ASTM D7731-11; http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8321b.pdf
https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38_METHOD_ID:4665, ,
https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38_METHOD_ID:4690
https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38_METHOD_ID:4821
https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38_METHOD_ID:4823
Quik Chem 10-107-04-1-C Nitrate + Nitrate.pdf, https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38_METHOD_ID:4702
Method Description SVOC; http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8270d.pdf; http://www.epa.gov/superfund/programs/clp/download/olc/olc32fs1.pdf
Method Description SVOC (new standard added to calibration); http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8270d.pdf; http://www.epa.gov/superfund/programs/clp/download/olc/olc32fs1.pdf
SOP filename R3QA210 VOC.pdf; http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8270d.pdf; http://www.epa.gov/superfund/programs/clp/download/olc/olc32fs1.pdf
http://water.epa.gov/scitech/methods/cwa/oil/index.cfm
Standard Methods 2540C
Standard Methods 2540D

Draft Method List for TABLE 1
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DIMOCK RESIDENTIAL GROUNDWATER SITE
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Web URL or SOP
http://www.epa.gov/epawaste/hazard/testmethods/pdfs/8015d_r4.pdf
https://www.nemi.gov/apex/f?p=237:38:1067486194907761::::P38_METHOD_ID:4680
Method Description Glycol; ASTM D7731-11; http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8321b.pdf
Method Description Glycol; ASTM D7731-11; http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8321b.pdf
https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38_METHOD_ID:4665, , https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38_METHOD_ID:4690
https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38_METHOD_ID:4821
https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38_METHOD_ID:4823
Quik Chem 10-107-04-1-C Nitrate + Nitrate.pdf, https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38_METHOD_ID:4702
Method Description SVOC; http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8270d.pdf; http://www.epa.gov/superfund/programs/clp/download/olc/olc32fs1.pdf
Method Description SVOC (new standard added to calibration); http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8270d.pdf; http://www.epa.gov/superfund/programs/clp/download/olc/olc32fs1.pdf
SOP filename R3QA210 VOC.pdf; http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8270d.pdf; http://www.epa.gov/superfund/programs/clp/download/olc/olc32fs1.pdf
http://water.epa.gov/scitech/methods/cwa/oil/index.cfm
Standard Methods 2540C

Standard Methods 2540D
R9 SOP 325
Modified EPA 8015; R9 SOP 275; R9 SOP 385
Modified EPA 8015; R9 SOP 380
Standard Methods 5540C
Proprietary Method
Proprietary Method
Proprietary Method
Proprietary Method
Proprietary Method

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Draft Method List for TABLE 1
Revised on 2/17/2012 by US EPA Region 3
DIMOCK RESIDENTIAL GROUNDWATER SITE
DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA

Parameter	SAP Method	Web URL or SOP
Alcohols: Ethanol, methanol, 1-propanol, 1-butanol, 2-butanol (8015D)	EPA SW-846 8015D	SOP File name R3QA203; http://www.epa.gov/epawaste/hazard/testmethods/pdfs/8015d_r4.pdf
Anions, Chloride, Bromide, Fluoride, Nitrate/Nitrite as N, Orthophosphorus as P, Sulfate as SO4 (300.0)	EPA 300	SOP File name R3QA108; https://www.nemi.gov/apex/f?p=237:38:106748619490776l::::P38_METHOD_ID:4680
Glycols incl. 2-Butoxyethanol (8321 Modified)	EPA SW-846 8321Modified	Method Description Glycol; ASTM D7731-11; http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8321b.pdf
2-Methoxyethanol (8321 and OLC03.2)	EPA SW-846 8321Modified	Method Description Glycol; ASTM D7731-11; http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8321b.pdf
Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, Sr, Ba, Sn, Sb, Be, Cd, Co, Tl, U, V, K, Li, (200.8)	EPA 245.1/200.8/200.7	SOP File name R3QA155, R3QA116, R3QA159; https//www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38 METHOD ID:4665;
Hg (245.1)	EPA 245.1	SOP File name R3QA131; https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38_METHOD_ID:4821
Phosphorus, Total (365.1)	EPA 365.1	https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38_METHOD_ID:4823
Nitrate/Nitrite ; Total Nitrogen (353.2)	EPA 353.2	Quik Chem 10-107-04-1-C Nitrate + Nitrate.pdf, https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38_METHOD_ID:4702
Semi-Volatiles (TCL plus TICs) (CLP Trace plus TICS) (OLC03.2)	2 (similar to SW-846 3520 and 8270D)	SOP File name R3QA201; http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8270d.pdf; http://www.epa.gov/superfund/programs/clp/download/olc/olc32fs1.pdf
1-methylnapthalene (8270 or equivalent)	LP OLC03.2 (similar to SW-846 8270D)	SOP File name R3QA201; (new standard added to calibration); http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8270d.pdf;
Volatiles Incl. Acrylonitrile (TCL plus TICs) (CLP Trace - 0.5 ug/L QL) (OLC03.2)	EPA CLP OLC03.2 (similar to SW-846 5030 and 8260B)	SOP File name R3QA210 VOC.pdf; http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8270d.pdf;
Oil & Grease (HEM) (1664A)	EPA 1664A	SOP File name R3QA163 (using micro extraction); http://water.epa.gov/scitech/methods/cwa/oil/index.cfm
Solids, Total Dissolved (TDS) (2540C)	SM 2540C	Standard Methods 2540C (link not provided; subscription required)
Solids, Total Suspended (TSS) (2540D)	SM 2540D	Standard Methods 2540D (link not provided; subscription required)

Draft Method List for TABLE 1
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DIMOCK RESIDENTIAL GROUNDWATER SITE
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Parameter	SAP Method	Web URL or SOP
Ethylene Glycol (8015)	SW-846 8015B	Link to referenced method not found
Dissolved Gases, Methane, Ethane, & Ethene (RSK-175)	RSK-17	SOP File name R9 SOP 325
DRO (8015M)	EPA SW-846 8015	Modified EPA 8015; www.epa.gov/region9/qa/pdfs/8015.pdf; SOP File names R9 SOP 275; R9 SOP 385
GRO (8015M)	EPA SW-846 8015	Modified EPA 8015; www.epa.gov/region9/qa/pdfs/8015.pdf; SOP File name R9 SOP 380
Methylene Blue Active Substances (MBAS) (SM 5540C)	SM 5540C	Standard Methods 5540C (link not provided; subscription required)
$d^{13}C$ and $d^{2}H$ of methane (isotech)	Isotech Methods	Proprietary Method
$d^{13}C$ of inorganic carbon (isotech)	Isotech Methods	Proprietary Method
Stable isotopes of water (O,H) (isotech)	Isotech Methods	Proprietary Method
Complete compositional analysis of headspace gas (isotech)	Isotech Methods	Proprietary Method
Diss. gases methane, ethane, ethene (isotech)	Isotech Methods	Proprietary Method
Gamma Spec (K-40, Ra-226, Ra-228, Th-232, Th-234, U-234, U-235, U-238) (901.1)	EPA Method 901.1	https://www.nemi.gov/apex/f?p=237:38:998830156539868::::P38_METHOD_ID:7391
Ra-226 (903.1)	EPA Method 903.1	https://www.nemi.gov/apex/f?p=237:38:998830156539868::::P38_METHOD_ID:4732
Ra-228 (904.0)	EPA Method 904.0	File name EPA_Method_904.0.pdf
Gross Alpha/Beta (900.0)	EPA Method 900.0	https://www.nemi.gov/apex/f?p=237:38:998830156539868::::P38_METHOD_ID:4730
Bacteria (total coliform, HPC)		

Draft Method List for TABLE 1
Revised on 2/17/2012 by US EPA Region 3
DIMOCK RESIDENTIAL GROUNDWATER SITE
DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA

DISCLAIMER: This document is a preliminary draft. It has not been formally released by the U.S. Environmental Protection Agency (EPA) and should not at this stage be construed to represent Agency policy and does not necessarily represent final EPA decisions or positions. It is intended to present technical information concerning method development. The purpose in the release of such reports is to facilitate the exchange of technical information and to inform the public of technical developments.

Parameter	SAP Method	Web URL or SOP
Alcohols: Ethanol, methanol, 1-propanol, 1-butanol, 2-butanol (8015D)	EPA SW-846 8015D	http://www.epa.gov/epawaste/hazard/testmethods/pdfs/8015d_r4.pdf
Anions, Chloride, Bromide, Fluoride, Nitrate/Nitrite as N, Orthophosphorus as P, Sulfate as SO4 (300.0)	EPA 300	https://www.nemi.gov/apex/f?p=237:38:106748619490776l::::P38_METHOD_ID:4680
Glycols incl. 2-Butoxyethanol (8321 Modified)	EPA SW-846 8321Modified	Method Description Glycol; ASTM D7731-11; http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8321b.pdf
2-Methoxyethanol (8321 and OLC03.2)	EPA SW-846 8321Modified	Method Description Glycol; ASTM D7731-11; http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8321b.pdf
Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, Sr, Ba, Sn, Sb, Be, Cd, Co, Tl, U, V, K, Li, (200.8)	EPA 245.1/200.8/200.7	https//www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38 METHOD ID:4665; https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38 METHOD ID:4690
Hg (245.1)	EPA 245.1	https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38_METHOD_ID:4821
Phosphorus, Total (365.1)	EPA 365.1	https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38_METHOD_ID:4823
Nitrate/Nitrite ; Total Nitrogen (353.2)	EPA 353.2	Quik Chem 10-107-04-1-C Nitrate + Nitrate.pdf, https://www.nemi.gov/apex/f?p=237:38:1882017519080211::::P38_METHOD_ID:4702
Semi-Volatiles (TCL plus TICs) (CLP Trace plus TICS) (OLC03.2)	2 (similar to SW-846 3520 and 8270D)	http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8270d.pdf; http://www.epa.gov/superfund/programs/clp/download/olc/olc32fs1.pdf
1-methylnapthalene (8270 or equivalent)	LP OLC03.2 (similar to SW-846 8270D)	http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8270d.pdf; http://www.epa.gov/superfund/programs/clp/download/olc/olc32fs1.pdf
Volatiles Incl. Acrylonitrile (TCL plus TICs) (CLP Trace - 0.5 ug/L QL) (OLC03.2)	EPA CLP OLC03.2 (similar to SW-846 5030 and 8260B)	http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/8270d.pdf; http://www.epa.gov/superfund/programs/clp/download/olc/olc32fs1.pdf

Oil & Grease (HEM) (1664A)	EPA 1664A	http://water.epa.gov/scitech/methods/cwa/oil/index.cfm
Solids, Total Dissolved (TDS) (2540C)	SM 2540C	Standard Methods 2540C (link not provided; subscription required)
Solids, Total Suspended (TSS) (2540D)	SM 2540D	Standard Methods 2540D (link not provided; subscription required)

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DIMOCK RESIDENTIAL GROUNDWATER SITE
DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA

released by the U.S. Environmental Protection Agency (EPA) and should not at this stage be construed to represent Agency policy and does not necessarily

Parameter	SAP Method	Web URL or SOP
Ethylene Glycol (8015)	SW-846 8015B	Link to referenced method not found
Dissolved Gases, Methane, Ethane, & Ethene (RSK-175)	RSK-175	http://www.epa.gov/region1/info/testmethods/pdfs/RSKsop175v2.pdf
DRO (8015M)	EPA SW-846 8015	Modified EPA 8015; www.epa.gov/region9/qa/pdfs/8015.pdf;
GRO (8015M)	EPA SW-846 8015	Modified EPA 8015; www.epa.gov/region9/qa/pdfs/8015.pdf;
Methylene Blue Active Substances (MBAS) (SM 5540C)	SM 5540C	Standard Methods 5540C (link not provided; subscription required)
$d^{13}C$ and $d^{2}H$ of methane (isotech)	Isotech Methods	Proprietary Method
$d^{13}C$ of inorganic carbon (isotech)	Isotech Methods	Proprietary Method
Stable isotopes of water (O,H) (isotech)	Isotech Methods	Proprietary Method
Complete compositional analysis of headspace gas (isotech)	Isotech Methods	Proprietary Method
Diss. gases methane, ethane, ethene (isotech)	Isotech Methods	Proprietary Method

Gamma Spec (K-40, Ra-226, Ra-228, Th-232, Th-234, U-234, U-235, U-238) (901.1)	EPA Method 901.1	https://www.nemi.gov/apex/f?p=237:38:998830156539868::::P38_METHOD_ID:7391
Ra-226 (903.1)	EPA Method 903.1	https://www.nemi.gov/apex/f?p=237:38:998830156539868::::P38_METHOD_ID:4732
Ra-228 (904.0)	EPA Method 904.0	File name EPA_Method_904.0.pdf
Gross Alpha/Beta (900.0)	EPA Method 900.0	https://www.nemi.gov/apex/f?p=237:38:998830156539868::::P38_METHOD_ID:4730
Bacteria (total coliform, HPC)		

Ex. 5 - Deliberative

Ex. 5 - Deliberative

Ex. 5 - Deliberative

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WRK	SAMPLE	SAMPLENAME
1201013	1	FB01
1201013	2	FB01-F
1201013	3	HW19
1201013	4	HW19-F
1201013	5	HW19-P
1201013	6	HW19-PF
1201013	7	FB02
1201013	8	FB02-F
1201013	9	HW04
1201013	10	HW04-F
1201013	11	TB01
1201013	12	FB03
1201013	13	HW02
1201013	14	HW02z
1201013	15	HW01
1201013	16	HW05
1201013	17	HW06
1201013	18	HW06-F
1201013	19	FB03F
1201013	20	HW12
1201013	21	HW02z-F
1201013	22	HW01-F
1201013	23	HW02-F
1201013	24	HW05-F
1201013	25	TB02
1201013	26	TB03
1201013	27	HW08a-F
1201013	28	HW08a
1201013	29	FB04
1201013	30	FB05
1201013	31	HW24
1201013	32	HW24-P
1201013	33	HW12
1201013	34	HW17
1201013	35	HW14
1201013	36	HW14-P
1201013	37	FB04-F
1201013	38	FB05-F
1201013	39	HW12-F
1201013	40	HW17-F
1201013	41	HW14-F
1201013	42	HW24-PF
1201013	43	HW24-F
1201013	44	HW14-PF
1201013	45	TB05
1201013	46	TB07
1201013	47	TB06
1201013	48	TB04

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WRK	SAMPLE	SAMPLENAME
1201015	1	EB01
1201015	2	FB06
1201015	3	HW18
1201015	4	HW13
1201015	5	HW18-P
1201015	6	HW18-F
1201015	7	EB01-F
1201015	8	FB06-F
1201015	9	HW13-F
1201015	10	HW18-PF
1201015	11	HW25-P
1201015	12	HW25-PF
1201015	13	HW26-P
1201015	14	HW26-PF
1201015	15	HW26
1201015	16	HW26-F
1201015	17	HW35
1201015	18	HW35-F
1201015	19	HW20
1201015	20	HW20-F
1201015	21	HW20-P
1201015	22	HW20-PF
1201015	23	TB08
1201015	24	TB09
1201015	25	HW32
1201015	26	HW32-P
1201015	27	HW32-PF
1201015	28	TB13
1201015	29	HW32-F
1201015	30	HW33
1201015	31	HW33a-P
1201015	32	HW33a-PF
1201015	33	HW33b-P
1201015	34	HW33-F
1201015	35	TB12
1201015	36	HW33b-PF
1201015	37	HW29z
1201015	38	HW29z-F
1201015	39	HW29
1201015	40	HW29-F
1201015	41	HW52
1201015	42	HW52-F
1201015	43	FB07
1201015	44	FB07-F
1201015	45	TB10
1201015	46	TB11

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WRK	SAMPLE	SAMPLENAME
1202001	1	HW42
1202001	2	HW42-F
1202001	3	HW46
1202001	4	HW46-F
1202001	5	HW46-P
1202001	6	TB15
1202001	7	FB09
1202001	8	FB08
1202001	9	FB08-F
1202001	10	HW34a
1202001	11	HW34a-F
1202001	12	FB09-F
1202001	13	HW42z
1202001	14	HW42z-F
1202001	15	TB16
1202001	16	HW46-PF
1202001	17	HW34a-P
1202001	18	HW34a-PF
1202001	19	TB14
1202001	20	HW28a
1202001	21	HW28a-F
1202001	22	HW28a-P
1202001	23	HW39
1202001	24	HW39-P
1202001	25	HW39-PF
1202001	26	HW40
1202001	27	HW40-F
1202001	28	HW40-P
1202001	29	HW40-PF
1202001	30	HW41
1202001	31	HW41-F
1202001	32	HW41-P
1202001	33	HW41-PF
1202001	34	TB17
1202001	35	TB18
1202001	36	TB19
1202001	37	HW28b-PF
1202001	38	HW28a-PF
1202001	39	HW39-F
1202001	40	HW09-PF
1202001	41	FB10-F
1202001	42	HW09-F
1202001	43	HW28b-P
1202001	44	HW09
1202001	45	HW09-P
1202001	46	FB10
1202001	47	TB20
1202001	48	HW39-P
1202001	49	TB21
1202001	50	TB22
1202001	51	HW39-RO

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WRK	SAMPLE	SAMPLENAME
1202003	1	HW45
1202003	2	HW45-P
1202003	3	HW43-P
1202003	4	HW43
1202003	5	EB02
1202003	6	HW45-F
1202003	7	HW45-PF
1202003	8	HW43-F
1202003	9	EB02-F
1202003	10	HW43-PF
1202003	11	TB23
1202003	12	TB24
1202003	13	HW15a-P
1202003	14	HW31-P
1202003	15	HW30
1202003	16	HW30-P
1202003	17	HW31
1202003	18	FB11
1202003	19	HW31z
1202003	20	HW15a
1202003	21	TB25
1202003	22	TB26
1202003	23	TB28
1202003	24	HW30-PF
1202003	25	HW15a-F
1202003	26	HW31-F
1202003	27	HW31z-F
1202003	28	HW30-F
1202003	29	HW31-PF
1202003	30	HW15a-PF
1202003	31	FB11-F
1202003	32	HW38-P
1202003	33	FB13
1202003	34	FB12
1202003	35	HW47
1202003	36	HW51
1202003	37	HW38
1202003	38	HW51-P
1202003	39	HW47-P
1202003	40	HW51-PF
1202003	41	HW38-F
1202003	42	HW47-PF
1202003	43	HW38-PF
1202003	44	FB13-F
1202003	45	FB12-F
1202003	46	HW51-F
1202003	47	HW47-F
1202003	48	TB30
1202003	49	TB27
1202003	50	TB29

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WRK	SAMPLE	SAMPLENAME
1201013	1	FB01
1201013	2	FB01-F
1201013	3	HW19
1201013	4	HW19-F
1201013	5	HW19-P
1201013	6	HW19-PF
1201013	7	FB02
1201013	8	FB02-F
1201013	9	HW04
1201013	10	HW04-F
1201013	11	TB01
1201013	12	FB03
1201013	13	HW02
1201013	14	HW02z
1201013	15	HW01
1201013	16	HW05
1201013	17	HW06
1201013	18	HW06-F
1201013	19	FB03F
1201013	20	HW12 Carry
1201013	21	HW02z-F
1201013	22	HW01-F
1201013	23	HW02-F
1201013	24	HW05-F
1201013	25	TB02
1201013	26	TB03
1201013	27	HW08a-F
1201013	28	HW08a
1201013	29	FB04
1201013	30	FB05
1201013	31	HW24
1201013	32	HW24-P
1201013	33	HW12
1201013	34	HW17
1201013	35	HW14
1201013	36	HW14-P
1201013	37	FB04-F
1201013	38	FB05-F
1201013	39	HW12-F
1201013	40	HW17-F
1201013	41	HW14-F
1201013	42	HW24-PF
1201013	43	HW24-F
1201013	44	HW14-PF
1201013	45	TB05
1201013	46	TB07
1201013	47	TB06
1201013	48	TB04
Total	195	

HW04
HW06
HW08
HW12
HW25

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WRK	SAMPLE	SAMPLENAME
1201015	1	EB01
1201015	2	FB06
1201015	3	HW18
1201015	4	HW13
1201015	5	HW18-P
1201015	6	HW18-F
1201015	7	EB01-F
1201015	8	FB06-F
1201015	9	HW13-F
1201015	10	HW18-PF
1201015	11	HW25-P
1201015	12	HW25-PF
1201015	13	HW26-P
1201015	14	HW26-PF
1201015	15	HW26
1201015	16	HW26-F
1201015	17	HW35
1201015	18	HW35-F
1201015	19	HW20
1201015	20	HW20-F
1201015	21	HW20-P
1201015	22	HW20-PF
1201015	23	TB08
1201015	24	TB09
1201015	25	HW32
1201015	26	HW32-P
1201015	27	HW32-PF
1201015	28	TB13
1201015	29	HW32-F
1201015	30	HW33
1201015	31	HW33a-P
1201015	32	HW33a-PF
1201015	33	HW33b-P
1201015	34	HW33-F
1201015	35	TB12
1201015	36	HW33b-PF
1201015	37	HW29z
1201015	38	HW29z-F
1201015	39	HW29
1201015	40	HW29-F
1201015	41	HW52
1201015	42	HW52-F
1201015	43	FB07
1201015	44	FB07-F
1201015	45	TB10
1201015	46	TB11

Hw 29
Hw 32
HW07

U.S. EPA Region 3

2/7/2012 15:51

WRK	SAMPLE	SAMPLENAME
1202001	1	HW42
1202001	2	HW42-F
1202001	3	HW46
1202001	4	HW46-F
1202001	5	HW46-P
1202001	6	TB15
1202001	7	FB09
1202001	8	FB08
1202001	9	FB08-F
1202001	10	HW34a
1202001	11	HW34a-F
1202001	12	FB09-F
1202001	13	HW42z
1202001	14	HW42z-F
1202001	15	TB16
1202001	16	HW46-PF
1202001	17	HW34a-P
1202001	18	HW34a-PF
1202001	19	TB14
1202001	20	HW28a
1202001	21	HW28a-F
1202001	22	HW28a-P
1202001	23	HW39
1202001	24	HW39-P
1202001	25	HW39-PF
1202001	26	HW40
1202001	27	HW40-F
1202001	28	HW40-P
1202001	29	HW40-PF
1202001	30	HW41
1202001	31	HW41-F
1202001	32	HW41-P
1202001	33	HW41-PF
1202001	34	TB17
1202001	35	TB18
1202001	36	TB19
1202001	37	HW28b-PF
1202001	38	HW28a-PF
1202001	39	HW39-F
1202001	40	HW09-PF
1202001	41	FB10-F
1202001	42	HW09-F
1202001	43	HW28b-P
1202001	44	HW09
1202001	45	HW09-P
1202001	46	FB10
1202001	47	TB20
1202001	48	HW39-P
1202001	49	TB21
1202001	50	TB22
1202001	51	HW39-RO

U.S. EPA Region 3

2/9/2012 13:35

WRK	SAMPLE	SAMPLENAME
1202003	1	HW45
1202003	2	HW45-P
1202003	3	HW43-P
1202003	4	HW43
1202003	5	EB02
1202003	6	HW45-F
1202003	7	HW45-PF
1202003	8	HW43-F
1202003	9	EB02-F
1202003	10	HW43-PF
1202003	11	TB23
1202003	12	TB24
1202003	13	HW15a-P
1202003	14	HW31-P
1202003	15	HW30
1202003	16	HW30-P
1202003	17	HW31
1202003	18	FB11
1202003	19	HW31z
1202003	20	HW15a
1202003	21	TB25
1202003	22	TB26
1202003	23	TB28
1202003	24	HW30-PF
1202003	25	HW15a-F
1202003	26	HW31-F
1202003	27	HW31z-F
1202003	28	HW30-F
1202003	29	HW31-PF
1202003	30	HW15a-PF
1202003	31	FB11-F
1202003	32	HW38-P
1202003	33	FB13
1202003	34	FB12
1202003	35	HW47
1202003	36	HW51
1202003	37	HW38
1202003	38	HW51-P
1202003	39	HW47-P
1202003	40	HW51-PF
1202003	41	HW38-F
1202003	42	HW47-PF
1202003	43	HW38-PF
1202003	44	FB13-F
1202003	45	FB12-F
1202003	46	HW51-F
1202003	47	HW47-F
1202003	48	TB30
1202003	49	TB27
1202003	50	TB29

FYI....for ELement narratives
Robin Costas to: R3 ESC-LB 02/14/2012 10:59 AM

Ex. 5 - Deliberative

Non-responsive

Non-responsive

Non-responsive

External Validation of Regional Laboratory Data
John Bourbon to: Cynthia Caporale 02/07/2012 10:05 AM

From: John Bourbon/R2/USEPA/US
To: Cynthia Caporale/ESC/R3/USEPA/US@EPA

----- Forwarded by John Bourbon/R2/USEPA/US on 02/07/2012 10:05 AM -----

From: John Bourbon/R2/USEPA/US
To: Ildefonso Acosta/R2/USEPA/US@EPA
Cc: Sumy Cherukara/R2/USEPA/US@EPA, Ness Tirol/R2/USEPA/US@EPA, Phil Cocuzza/R2/USEPA/US@EPA
Date: 12/22/2011 06:32 PM
Subject: St. Croix Alumina document review

Non-responsive

Ildefonso Acosta Hi John, Thanks for making the lab backup docu... 12/22/2011 11:34:37 AM

From: Ildefonso Acosta/R2/USEPA/US
To: John Bourbon/R2/USEPA/US@EPA
Date: 12/22/2011 11:34 AM
Subject: Fw: St. Croix Alumina document review

Hi John,

Non-responsive

Ildefonso Acosta
Region 2 NPL Coordinator
U.S. EPA
290 Broadway, NY, NY 10007
212-637-4344 (office)
212-637-3256 (fax)
acosta.ildefonso@epa.gov
----- Forwarded by Ildefonso Acosta/R2/USEPA/US on 12/22/2011 11:28 AM -----

Non-responsive

Non-responsive

Non-responsive

From: Richard Fetzer [mailto:Fetzer.Richard@epamail.epa.gov]
Sent: Wednesday, February 08, 2012 11:49 AM
To: Kelley Chase; gilbert.john@epa.gov
Cc: foreman.fred@epa.gov; Cynthia Caporale; Ex. 4 - CBI Stephanie Wenning; Ex. 4 - CBI
Richard Rupert; heston.gerald@epa.gov
Subject: EXTERNAL: Dimock Data Meeting/Call Summary

Kelley/John

Here's my summary of today's conference call on Data:

1. We need to confirm that the EPA-staffed lab data will result in a Level 4 QA review as requested - Check with Cindy C.
2. We need to set up the process we agreed upon to get the "Final to Scribe" sub directory set up in the FTP site. We discussed that Cindy C. would upload this data in to this newly created subdirectory after the Blank Review process is completed. Only this subdirectory will be used by SERAS and START to move the data into Scribe. Fred Foreman will upload the Techlaw subcontracted data after the ESAT review is completed to this same directory.
3. Kelley, John, Cindy C., Fred, & Ex. 4 - CBI SERAS) need to have a conference call to define Project Level QA Review. (does 4pm EST work for all today????)
4. John and Steph (working with SERAS) will pick one the preferred EDD format and only that format will go in the subdirectory specified in #2 above.
5. We will need to know how quickly Cindy C. expect to get the Blank Review Process completed. Obviously the quicker the better so the other process can begin.

thanks to all for your continued support and help.

Rich

Richard M. Fetzer
Federal On-Scene Coordinator
100 Gypsum Road
Stroudsburg, PA 18360
(215) 341-6307

Non-responsive

Non-responsive

Non-responsive

Dimock Data Meeting/Call Summary - Scheduled for 5PM EST Today

Kelley Chase to Ex. 4 - CBI Cynthia Caporale, Fred Foreman, John Gilbert 02/08/2012 02:58 PM

From: Kelley Chase/R3/USEPA/US

To: Ex. 4 - CBI @lmco.com>, Cynthia Caporale/ESC/R3/USEPA/US@EPA, Fred Foreman/ESC/R3/USEPA/US@EPA, John Gilbert/CI/USEPA/US@EPA

If you are available - please call in to Ex. 6 - Personal Privacy

Thanks - Kelley

Non-responsive

Non-responsive

Dimock Data Meeting/Call Summary

Richard Fetzer to: Kelley Chase, gilbert.john 02/08/2012 11:49 AM

Cc: foreman.fred, Cynthia Caporale, Ex. 4 - CBI Stephanie Wenning, Ex. 4 - CBI Richard Rupert, heston.gerald

From: Richard Fetzer/R3/USEPA/US

To: Kelley Chase/R3/USEPA/US@EPA, gilbert.john@epa.gov

Cc: foreman.fred@epa.gov, Cynthia Caporale/ESC/R3/USEPA/US@EPA, Ex. 4 - CBI Stephanie Wenning/R3/USEPA/US@EPA, Ex. 4 - CBI Richard Rupert/ESC/R3/USEPA/US, heston.gerald@epa.gov

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thanks to all for your continued support and help.

Rich

Richard M. Fetzer
Federal On-Scene Coordinator
100 Gypsum Road
Stroudsburg, PA 18360
(215) 341-6307

Dimock Data Meeting/Call Summary

Richard Fetzer to: Kelley Chase, gilbert.john 02/08/2012 11:49 AM
Cc: foreman.fred, Cynthia Caporale, Ex. 4 - CBI Stephanie Wenning, Ex. 4 - CBI Richard Rupert, heston.gerald

From: Richard Fetzer/R3/USEPA/US
To: Kelley Chase/R3/USEPA/US@EPA, gilbert.john@epa.gov
Cc: foreman.fred@epa.gov, Cynthia Caporale/ESC/R3/USEPA/US@EPA, [illegible] Stephanie Wenning/R3/USEPA/US@EPA, Ex. 4 - CBI [illegible]chard Rupert/ESC/R3/USEPA/US, heston.gerald@epa.gov

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Rich

Richard M. Fetzer
Federal On-Scene Coordinator
100 Gypsum Road
Stroudsburg, PA 18360
(215) 341-6307

RE: EXTERNAL: Dimock Data Meeting/Call Summary

Ex. 4 - CBI

to:
Cynthia Caporale
02/08/2012 01:33 PM
Cc:
Ex. 4 - CBI Fred Foreman, Gerald Heston, John Gilbert, Kelley Chase, Richard Fetzer, Richard Rupert, " Ex. 4 - CBI Stephanie Wenning
Hide Details
From: Ex. 4 - CBI lmco.com> Sort List...

To: Cynthia Caporale/ESC/R3/USEPA/US@EPA

Cc: Ex. 4 - CBI @lmco.com>, Fred Foreman/ESC/R3/USEPA/US@EPA, Gerald Heston/R3/USEPA/US@EPA, John Gilbert/CI/USEPA/US@EPA, Kelley Chase/R3/USEPA/US@EPA, Richard Fetzer/R3/USEPA/US@EPA, Richard Rupert/R3/USEPA/US, Ex. 4 - CBI Ex. 4 - CBI nco.com>, Ex. 4 - CBI US@EPA, Stephanie Wenning/R3/USEPA/US@EPA

Cynthia,

EPA Level IV data is defined below. It is a full data package that can be validated using the National Functional Guidelines, which is analogous to Stage 4 validation in the guidance you cited for labeling externally validated data in the Superfund program.
Level IV is laboratory analysis using EPA's contract laboratory program protocols. This data level is characterized by rigorous quality assurance and quality control protocols and specific documentation requirements. Level IV data packages contain information on initial and continuing calibration, gas chromatography/mass spectrometry tuning, surrogate recovery percentages, matrix spike duplications, internal chain of custody, and holding times. Level IV documentation is needed for data validation by EPA national functional guidelines.

Without Level IV documentation, it is not possible to (1) evaluate many aspects of laboratory analysis, such as the effect of interferences; (2) confirm the accuracy of quality control summaries provided by the laboratory; or (3) verify that the analyses were actually performed.

This level of analytical data is relatively expensive and is commonly used for confirming low levels of

contamination, making public health risk assessments, and obtaining highly documented data.

Ex. 4 - CBI

Lockheed Martin
Scientific, Engineering, Response and Analytical Services (SERAS)

Ex. 4 - CBI

From: Cynthia Caporale [mailto:Caporale.Cynthia@epamail.epa.gov]
Sent: Wednesday, February 08, 2012 1:08 PM
To: Ex. 4 - CBI
Cc: Ex. 4 - CBI Fred Foreman; Gerald Heston; John Gilbert; Kelley Chase; Richard Fetzer; Richard Rupert; Ex. 4 - CBI Stephanie Wenning
Subject: RE: EXTERNAL: Dimock Data Meeting/Call Summary

I have another conference call at 4-5. It is with the other regions but if 4pm is the agreed upon time I will be on this call (data meeting call).

Is the Level 4 QA review the same as the terminology in the *Guidance for Labeling Eternally Validated Laboratory Analytical Data for Superfund Use* (Jan 2009)?
Cynthia Caporale, Chief

OASQA Laboratory Branch
U.S. EPA Region III
Environmental Science Center
Fort Meade, MD
(410) 305-2732
Fax: (410) 305-3095

From: Ex. 4 - CBI n@lmco.com>
To: Richard Fetzer/R3/USEPA/US@EPA, Kelley Chase/R3/USEPA/US@EPA, John Gilbert/CI/USEPA/US@EPA
Cc: Fred Foreman/ESC/R3/USEPA/US@EPA, Cynthia Caporale/ESC/R3/USEPA/US@EPA, Ex. 4 - CBI @lmco.com>, Stephanie Wenning/R3/USEPA/US@EPA, Richard Rupert/R3/USEPA/US, Gerald Heston/R3/USE
Ex. 4 - CBI
Date: 02/08/2012 11:59 AM
Subject: RE: EXTERNAL: Dimock Data Meeting/Call Summary

I am available at 4pm EST. I am going to invite the SERAS Program Manager and ERT Project Officer so they are aware of our final consensus decision.

Environmental Protection Agency Office of Emergency and Remedial Response **TECHNICAL DIRECTION FORM** **Region 3 - ESAT**	Contract No.: EP-W-06-016
	Contractor: Lockheed/Martin Srvcs Inc.
	Task Order No.: 0036
	Sub-Task No.:
	Techn[redacted]01076

Ex. 4 - CBI

Task Order Project Officer: Colleen K. Walling Phon[redacted]763

Description of Task: **Provide Sample Log-in and other ancillary tasks support for the Dimock Site fast turn-around-time analyses**

Account Number: **2012TO3N303DC6A3TARS00**

Deliverable Due Date: **for 2/1/2012 – 2/10/2012 or as long as the task order is extended**

TASK DESCRIPTION: **DIMOCK Site**

ESAT shall perform sample log-in, sample processing support, and perform ancillary tasks (e.g., glassware washing, reagent prep, etc.) to support the analytical tasks for this Superfund site.

In addition, ESAT **may be required** to provide sample preparation support. ESAT will be notified if this support is needed.

The Technical Monitors: John Curry, Kevin Martin, Stevie Wilding, Cynthia Caporale.

I CERTIFY THAT THIS TECHNICAL DIRECTIVE DOES NOT REQUEST SERVICES THAT ARE INHERENTLY GOVERNMENTAL FUNCTIONS AND THAT IT DOES NOT ALTER THE (1) STATEMENT OF WORK, (2) LEVEL OF EFFORT, (3) COST OF PERFORMING THE AUTHORIZED WORK, (4) NUMBER OF DELIVERABLES, OR (5) THE DUE DATES OF DELIVERABLES FOR THE ABOVE REFERENCED TASK ORDER.

TOPO Signature Colleen K. Walling Date 1/31/2012

Original to Contractor
cc: TOPO file Project Officer Contracting Officer

* Table I + II
* Screening levels
Mich - Northeast

Dimock GW Site – Daily Lab Updates

1/30/2012

21 Homes —

Jeff Dodd - access
extend hours -

Status of Samples recv'd to-date 8

48 samples
sample volumes
O&G - 1 bottle need 3
Missing HW - 12
pH ?

What's missing?

HT issues?

Status for R9

Supplies
rails
Storage - in walk in
ESAT login W-T-F-S

Did they receive all of the samples for the week?

Any HT issues?

When you talk to field folks see if we can get a complete list of what was sampled last week. Fred had requested this but we have not received that information yet. Also see if there is a schedule for this week.

call — Rich Fetzer
· call

Status of Analysis

Glycols for Day 1 and Day 2 done

SVOCs – when will we have prelim data for 2-methoxyethanol and phthalate?

Metals – status of prelim data?

Total P (remove O, thiophosp)
O&G

SOPs
CC: Hermanez for SOP comments to Rich R.

Communication
emails
weekend data

ESAT contact - Ex. 4 - CBI

Temp blanks

>6° – at receipt on Sat. – qualify samples for VGAs

FB03 – no glycols + alcohols on COC

COC – ~~AF33~~ A3TA

No CT #

SAP
Richard Rupert to: Cynthia Caporale 02/10/2012 07:57 AM

Cindy, with all the recent changes on QAQC stuff we have revised the SAP. I am not sure about the revised passage below and hope you will be able to review it for correctness.

thanks
Rich

- With exceptions listed above, preliminary unvalidated data will be provided to the EPA OSC within 7 calendar days after receipt of the samples at the laboratory. The final data reports from EPA laboratories and the Level IV (CLP-equivalent) data packages from Tier IV laboratories (except Isotech analyses and bacteria tests) will be due within 21 calendar days (15 business days) of receipt of the final samples for each sample delivery group (SDG) at the laboratory. The final data package for the Isotech analyses will be due in 28 days. Final reports/documentation for bacteria testing will be provided within 7 days (documentation for all testing completed during a week will be reported by the end of the following week.

- Data validation will be performed by EPA/ESAT. Tier IV Data Validation Reports will be provided to the EPA OSC as follows: Bacteria testing – 14 days; ethylene glycol – 35 days; glycols – 35 days; and compositional analysis of headspace gas, methane isotopes, and water isotopes – 35 days; The TAT begins upon receipt of the laboratory analytical data package by EPA/ESAT.

Richard Rupert,
On-Scene Coordinator
U.S. EPA
1650 Arch Street - 3HS31
Philadelphia, PA 19103
(215) 814-3463 - office
215 514-8773 - mobile
rupert.richard@epa.gov

Cabot QA/QC

Terry Simpson to: KarenD Johnson 02/02/2012 06:16 PM
Cc: Cynthia Metzger, Fred Foreman
Bcc: Cynthia Caporale

From: Terry Simpson/ESC/R3/USEPA/US
To: KarenD Johnson/R3/USEPA/US@EPA
Cc: Cynthia Metzger/ESC/R3/USEPA/US@EPA, Fred Foreman/ESC/R3/USEPA/US@EPA
Bcc: Cynthia Caporale/ESC/R3/USEPA/US

Send to Dennis
Rich Rupert

Hi, Karen -

Just wanted to update you on Ft. Meade's QA/QC review of the existing data from Cabot's initial 104e response. I'm attaching a table and two checklists. We are using the checklists to inventory the amount of QC in each data file. This will serve two purposes: 1) to make a determination whether there is enough QC present to validate the data; and 2) to document exactly which QC information is missing and/or needed, should we want to specifically request it from Cabot and their labs. The table documents each file by report title, date, and analyses. It also provides a recommendation on the limited use of the data and cross-references the affected samples.

QA_QC Review of Cabot provided data 03Feb2012.docx Inorganic_Inventory of QC Measures.docx

Organic_Inventory of QC Measures.docx

Please take a look at these and let me know your thoughts. Is there anything that you were expecting to see that isn't in here? Thanks!

Terry

****

Terry Simpson, Regional QA Manager
US EPA Region 3
Environmental Science Center
701 Mapes Road
Ft. Meade, MD 20755-5350

Voice: 410.305.2739
Fax: 410.305.3095
email: simpson.terry@epa.gov

Region 3 QA Website:
http://www.epa.gov/region03/esc/qa/index.htm

Only four types of organizations need to worry about data quality:
Those that care about their customers,
Those that care about profit and loss,
Those that care about their employees, and
Those that care about their futures.
- Thomas C. Redman (2006)

***DRAFT ***

QA/QC Evaluation of Cabot Provided Data

Data Source						
Filename	**Report Title; Date**	**Generator (Originating Organization; Sample Collection Dates)**	**Analyses**	**Affected Samples**	**Adequacy of Quality Control Data (See attached inventories for specifics)**	**Recommendations for Limited Use of the Data**
CABOT-EPA 000001 Brickhouse February 16 2010.pdf	TestAmerica letter/lab report to Brickhouse Environmental; 16 Feb 2010;	Brickhouse Environmental; 20 Jan 2010	Glycols, Alcohols, MBAS	Sautner RW Ex. 6 - Personal Privacy	Inadequate	1. Data quality is unknown 2. Positive results may be used to scope future sampling efforts
CABOT-EPA 000008 Brickhouse February 16 2010 (2).pdf	TestAmerica letter/lab report to Brickhouse Environmental; 16 Feb 2010;	Brickhouse Environmental; 20-21 Jan 2010	Glycols, Alcohols, MBAS	Sautner Ex. 6 - Personal Privacy	Inadequate	1. Data quality is unknown 2. Positive results may be used to scope future sampling efforts
CABOT-EPA 000020 Brickhouse February 17 2010.pdf	TestAmerica letter/lab report to Brickhouse Environmental; 17 Feb 2010;	Brickhouse Environmental; 19-21 Jan 2010	Selected Metals, Organochlorine Pesticides, PCBs, VOCs, SVOCs, TICs, Alkalinity, TDS, Radiological, HEM, Sulfate, Bromide,	Sautner Ex. 6 - Personal Privacy	Inadequate	1. Data quality is unknown 2. Positive results may be used to scope future sampling efforts

*** DRAFT *** QA/QC Evaluation of Cabot Provided Data						
Data Source						
Filename	Report Title; Date	Generator (Originating Organization; Sample Collection Dates)	Analyses	Affected Samples	Adequacy of Quality Control Data (See attached inventories for specifics)	Recommendations for Limited Use of the Data
			Chloride, [illegible] Phenols, Tot[illegible] Cyanide, TOC, [illegible]issolved gases, [illegible]te	TB-Day 1 Ex. 6 - Personal Privacy		
CABOT-EPA 000176 TestAmerica Results August 4 2011.pdf	TestAmerica ; Analytical Report; 09/13/2011;	URS Corporation; Focused Site Assessment; 08/04/2011	VOA, SVOA, Glycols, Dissolved gases, GRO, DRO, Metals, Ammonia, Acidity, HEM, Chloride, Alkalinity, TDS, TSS, pH, MBAS	TC-1 AW-2	Sufficient QC data present to perform validation	1. Data validation can be performed 2. Positive results may be used to scope future sampling efforts 3. Extent of further use should be based on validated results
CABOT-EPA 001621 TestAmerica Results September 1 2011.pdf	TestAmer[illegible] Analytical Re[illegible] 10/05/2011;	URS Corp[illegible]ion; Focused Sit[illegible] Assessment; [illegible]9/01/2011	[illegible]A, SVOA, [illegible]ls, Dissolved gases, GRO, DRO, Metals, Ammonia, Acidity, HEM, Chloride, Alkalinity, TDS, TSS, pH, MBAS	H-1 FH-1 FPT-1 S-1 R-1 R-2 RD-1 RU-1 KDE-1 N-1	Sufficient QC data present to perform validation	1. Data validation can be performed 2. Positive results may be used to scope future sampling efforts 3. Extent of further use should be based on validated results

*** DRAFT *** QA/QC Evaluation of Cabot Provided Data						
Data Source						
Filename	Report Title; Date	Generator (Originating Organization; Sample Collection Dates)	Analyses	Affected Samples	Adequacy of Quality Control Data (See attached inventories for specifics)	Recommendations for Limited Use of the Data
				D-1 Trip Blank		
CABOT-EPA 003758 URS December 2011 - Wellsite Evaluations Ar.pdf						
CABOT-EPA 004346 URS December 2011 - Wellsite Evaluations Ar.pdf						

DRAFT