

Appendix E –
BGA 2 COC Field Copies

Page: _____ of _____	<h2 style="text-align: center;">GEL Chain of Custody and Analytical Request</h2> <p style="text-align: center;">**See www.gel.com for GEL's Sample Acceptance SOP**</p>	GEL Laboratories, LLC
Project #:		2040 Savage Road
GEL Quote #:		Charleston, SC 29407
COC Number (1):		Phone: (843) 556-8171
PO Number:	GEL Work Order Number:	Fax: (843) 766-1178

Client Name:		Phone #:		Sample Analysis Requested (5) (Fill in the number of containers for each test)																		
Project/Site Name:		Fax #:		Should this sample be considered																	Preservative Type (6)	
Address:																						
Collected by:		Send Results To:		TSC A Required per 65																	Comments Note: extra sample is required for sample specific QC	
Sample ID <small>* For composites - indicate start and stop date/time</small>	Date Collected (mm-dd-yy)	*Time Collected (Military) (hh:mm)	QC Code (2)	Field Filtered (9)	Sample Matrix (1)	Rad. active																
BGA 1.4.2	12/21/15																					
BGA 1.5.1	12/21/15																					
BGA 1.5.2	12/21/15																					
BGA 2.1.1	12/21/15																					
BGA 2.1.2	12/21/15																					
BGA 2.1.3	12/21/15																					
BGA 2.1.4	12/21/15																					
BGA 2.1.5	12/21/15																					
BGA 2.2.1	12/21/15																					
BGA 2.2.2	12/21/15																					

TAT Requested: Normal: _____ Rush: _____ Specify: _____ (Subject to Surcharge)	Fast Results: Yes / No	Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards		Sample Collection Time Zone Eastern Pacific Central Other Mountain

Chain of Custody Signatures				Sample Shipping and Delivery Details	
Relinquished By (Signed):	Date	Time	Received by (signed):	Date	Time
1			1		
2			2		
3			3		
			GEL PM:		
			Method of Shipment:		Date Shipped:
			Airbill #:		
			Airbill #:		

1.) Chain of Custody Number - Client Determined		For Lab Receiving Use Only Custody Seal Intact? YES NO Cooler Temp. C
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite		
3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or - N - for sample was not field filtered		
4.) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Misc Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N =		
5.) Sample Analysis Requested: Analytical method requested (i.e. 8160B, 6010B/7470A) and number of containers provided for each (i.e. 8160B - 3, 6010B/7470A - 1)		
6.) Preservative Type: HA = Hydrochloric Acid, NA = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate; If no preservative is added - leave field blank		
WHITE = LABORATORY YELLOW = FILE PINK = CLIENT		

Appendix E-
BGA 2 Sample Data Sheets

SAMPLE LOCATION DATA SHEET

Date: 12/21/15 Project: NYSERDA Name: J. Brown

Weather: windy, rainy, low 30's

1. Sample Area (SA):

SA Designation: BGA2 Description: _____
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: BGA2.1 Matrix: Soil
Location Coord: 42°25'33.95" N 78°38'02.89" W

Alternate Location Measurements (distance from SA origin and Local Coord.)
X Dist. from Origin (0.0) _____ Y Dist. from Origin: _____

Site Sketch Attached (Yes) (NO)

Sample Location Description: flat, open, ≈ 3" wet snow (cleared), tall grass (cleared) ground

Canopy Type: open Land Use: hiking, etc Soil Moisture (Wet, dry, etc.): damp

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	7114	6862	5	4	Bicron Micro-Ram #A22416 cal due 8/4/16 Ludlum 2241-2 #262737 with 44-10 probe #PR11123 cal due 7/2/16
1	7002	6787			

4. Sample Information:

Sample Area ID: BGA2.1.1-5

Description by Depth:

Depth Interval (cm)	Soil Type (Org; clay; sand, etc.)	Soil Color	Sample ID	Sampling Description (Surface litter type/depth, sample depth retention, refusal, stone or rock, topography, erosion features)
0-15			BGA2.1.1	Not Sampled
15-30			BGA2.1.2	
30-60			BGA2.1.3	
60-100			BGA2.1.4	
0-15			BGA2.1.5	

Sample Recorded on Laboratory COC form and Container Labeled: (Y) (N)

SAMPLE LOCATION DATA SHEET

Date: 12/21/15 Project: NYSEERDA Name: J. Brown

Weather: windy, rainy, low 30's

1. Sample Area (SA): new location for this sample only

SA Designation: BGA 2 Description: mostly open field, off access road S of
SA Origin Location: _____ Coord. System: _____ B56
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: BGA 2.1 Matrix: Soil ★ New sample location ★
Location Coord: 42° 26' 34.31" N 78° 38' 02.25" W

Alternate Location Measurements (distance from SA origin and Local Coord.)

X Dist. from Origin (0,0) _____ Y Dist. from Origin: _____

Site Sketch Attached (Yes) (NO)

Sample Location Description: flat, open, ~3" wet snow (cleared), grass (cleared), top of

Canopy Type: open Land Use: hiking, etc Soil Moisture (Wet, dry, small hill, middle of
etc.): damp group of trees

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	5874	5753	4	3	Bicron MicroRad#4224U cal due 8/4/16 Ludlum 2241-Z# 262737 with 44-10 probe # PR111127 cal due 9/2/16
1	5913	5645			

4. Sample Information:

Sample Area ID: BGA 2.1.1-5

Description by Depth:

Depth Interval (cm)	Soil Type (Org; clay; sand, etc.)	Soil Color	Sample ID	Sampling Description (Surface litter type/depth, sample depth retention, refusal, stone or rock, topography, erosion features)
0-15	topsoil	dk brown	BGA 2.1.1	roots
15-30	topsoil	dk brown	BGA 2.1.2	roots
30-40	topsoil, clay	dk brown	BGA 2.1.3	roots
40-100	topsoil, clay	dk brown	BGA 2.1.4	some water
0-15	topsoil	dk brown	BGA 2.1.5	roots

Sample Recorded on Laboratory COC form and Container Labeled: (Y) (N)

SAMPLE LOCATION DATA SHEET

Date: 12/21/15 Project: NYSERDA Name: J. Brown

Weather: windy, rainy, low 30's

1. Sample Area (SA):

SA Designation: BGA2 Description: open field off access road, S of BSW
 SA Origin Location: _____ Coord. System: _____
 SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: BGA2.2 Matrix: Soil
 Location Coord: 42° 26' 33.79" N 78° 38' 02.87" W

Alternate Location Measurements (distance from SA origin and Local Coord.)

X Dist. from Origin (0.0) _____ Y Dist. from Origin: _____

Site Sketch Attached (Yes) (NO)

Sample Location Description: flat, open, ~3" wet snow (cleared) tall grass (cleared)

Canopy Type: open Land Use: hiking, etc Soil Moisture (Wet, dry, etc.): damp

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1 m	1 cm	1 m	
1	7618	6845	5	4	Bicron MicroRem #42246 cal due 8/4/16 Ludlum 2241-2 # 262737 with 44-10 probe # PR 11127 cal due 9/2/16
1	7516	6717			

4. Sample Information:

Sample Area ID: BGA2.2.1.2

Description by Depth:

Depth Interval (cm)	Soil Type (Org; clay; sand, etc.)	Soil Color	Sample ID	Sampling Description (Surface litter type/depth, sample depth retention, refusal, stone or rock, topography, erosion features)
0-15	topsoil	dk brown	BGA2.2.1	
15-30	topsoil	dk brown	BGA2.2.2	water

Sample Recorded on Laboratory COC form and Container Labeled: (Y) (N)

SAMPLE LOCATION DATA SHEET

Date: 12/21/15 Project: NYSERDA Name: J. Brown

Weather: windy, rainy, low 30's

1. Sample Area (SA):

SA Designation: BGA2 Description: open field, off access road, S of BSW
 SA Origin Location: _____ Coord. System: _____
 SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: BGA2.3 Matrix: Soil
 Location Coord: 42°26'33.71" N 78°38.03.06" W

Alternate Location Measurements (distance from SA origin and Local Coord.)

X Dist. from Origin (0,0) _____ Y Dist. from Origin: _____

Site Sketch Attached (Yes) (NO)

Sample Location Description: flat, open, ~3" wet snow (cleared) tall grass (cleared)

Canopy Type: open Land Use: hiking, etc Soil Moisture (Wet, dry, etc.): damp

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	6778	6266	5	4	Bicron MicroRem #A2246 cal due 8/4/16 Ludlum 2241-Z #262737 with 44-10 probe # PR111127 cal due 7/2/16
1	6559	6202			

4. Sample Information:

Sample Area ID: BGA2.31-2

Description by Depth:

Depth Interval (cm)	Soil Type (Org; clay; sand, etc.)	Soil Color	Sample ID	Sampling Description (Surface litter type/depth, sample depth retention, refusal, stone or rock, topography, erosion features)
0-15	topsoil	dk brown	BGA2.3.1	
15-30	topsoil	dk brown	BGA2.3.2	water

Sample Recorded on Laboratory COC form and Container Labeled: (Y) (N)



NEW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 12/21/15Project: NYSERDAName: J. BrownWeather: windy, rainy, low 30's

1. Sample Area (SA):

SA Designation: BGA2Description: open field off road, wet, Sat BSL

SA Origin Location: _____

Coord. System: _____

SA Land Mark Description: _____

Coord: _____

2. Sample Location Data:

Sample Area ID: BGA2-4 Matrix: SoilLocation Coord: 42° 26' 33.85" N 78° 38' 03.24" W

Alternate Location Measurements (distance from SA origin and Local Coord.)

X Dist. from Origin (0.0) _____

Y Dist. from Origin: _____

Site Sketch Attached (Yes) (NO)Sample Location Description: flat, open, ~3" wet snow (cleared), tall grass (cleared)Canopy Type: open Land Use: hiking, etc Soil Moisture (Wet, dry, etc.): damp

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	6330	6195	5	4	Bicron Micro Rem # A224U cal due 8/4/16 Ludlum 2241-Z # 262737 with 44-10 probe # PR111127 cal due 7/2/16
1	6283	6132			

4. Sample Information:

Sample Area ID: BGA2.4.1-2

Description by Depth:

Depth Interval (cm)	Soil Type (Org; clay; sand, etc.)	Soil Color	Sample ID	Sampling Description (Surface litter type/depth, sample depth retention, refusal, stone or rock, topography, erosion features)
0-15	topsoil	dk brown	BGA2.4.1	
15-30	topsoil	dk brown	BGA2.4.2	water

Sample Recorded on Laboratory COC form and Container Labeled: (Y) (N)

10/20/15



SAMPLE LOCATION DATA SHEET

Date: 12/21/15 Project: NYSEERDA Name: J. Brown

Weather: windy, rainy, low 30's

1. Sample Area (SA):

SA Designation: BGA2 Description: open field off access road, S of BSW
 SA Origin Location: _____ Coord. System: _____
 SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: BGA 2.5 Matrix: Soil

Location Coord: 43° 26' 34.02" N 78° 38' 03.1" W

Alternate Location Measurements (distance from SA origin and Local Coord.)

X Dist. from Origin (0,0) _____ Y Dist. from Origin: _____

Site Sketch Attached (Yes) (NO)

Sample Location Description: flat, open ~ 3" wet snow (cleared) tall grass (cleared)

Canopy Type: open Land Use: hiking, etc Soil Moisture (Wet, dry, etc.): damp

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	7143	6486	5	4	Bicron MicroRem # A2244 cal due 8/4/16 Ludlum 2241-Z # 262737 with 44-10 probe # PR 111123 cal due 9/2/16
1	7385	6542			

4. Sample Information:

Sample Area ID: BGA 2.5.1-2

Description by Depth:

Depth Interval (cm)	Soil Type (Org; clay; sand, etc.)	Soil Color	Sample ID	Sampling Description (Surface litter type/depth, sample depth retention, refusal, stone or rock, topography, erosion features)
0-15	top soil	dk brown	BGA 2.5.1	
15-30	top soil	dk brown	BGA 2.5.2	water

Sample Recorded on Laboratory COC form and Container Labeled: (Y) (N)

Appendix E-
BGA 2 Static Survey Tables

Background Area 2 Sampling Table

Date		Elevation					
Collected	Sample	0-15 cm	15-30 cm	30-60 cm	60-100c cm	Location	Coordinates
12/21/15	BGA2.1.1	X				open field East of access Road - due South of BSW	42° 26' 34.31" N 78° 38' 02.25" W
12/21/15	BGA2.1.2		X				
12/21/15	BGA2.1.3			X			
12/21/15	BGA2.1.4				X		
12/21/15	BGA2.1.5	X					
12/21/15	BGA2.2.1	X					42° 26' 33.79" N 78° 38' 02.87" W
12/21/15	BGA2.2.2		X				
12/21/15	BGA2.3.1	X					42° 26' 33.71" N 78° 38' 03.06" W
12/21/15	BGA2.3.2		X				
12/21/15	BGA2.4.1	X					42° 26' 33.85" N 78° 38' 03.24" W
12/21/15	BGA2.4.2		X				
12/21/15	BGA2.5.1	X					42° 26' 34.02" N 78° 38' 03.1" W
12/21/15	BGA2.5.2		X				

Access Road

