APPENDIX B
SAMPLE INTEGRITY DATA SHEETS

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-MW5-090309

Sampling Location Golder Monitoring Wells – ~~West~~ East Side of Property - Bentic house

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic

Date 9/2/09 & 9/3/09 **Time** 1200

Media Water **Station** MW-05

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 10.99 @ 1254 9/1/09

LNAPL Thickness = none

Screened Interval = ? Bottom of well @ 12.9' btoc

Pump Intake = 12.7' btoc → to pump the well dry

Sample Description Turbid, Opaque, no odor.

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(1)- 1Liter diesel	Glass	HCL
~~(1)- 1Liter~~	~~Glass~~	~~HCL~~
1(~~3~~) – 1 Liter PAH	Glass	None
~~(3) – 40 mL~~	~~VOA~~	~~HCL~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
(1) – 500 mL	Poly/HDPE	Nitric
(1) – 500 mL	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/3/09

Supervisor (signature) [signature] **Date** 10/2/2009

MW-5

Golder Associates Inc.

FIELD PARAMETERS SHEET

Well ID MW-5
Date 9/2/09
Time Begin Purge 635 - 645 9/3/09
Time Collect Sample 1200

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	Turbidity NTU	DO mg/L	eH rel mV
11.04	1630							
				N/A				

Comments: only 1.9 feet of water in well. Pumped the well dry on 9/2/09 @ 1520. Let the well recharge. Can't do water quality parameters. Filled sample bottles during three purging events on 9/3/09 in order to have enough water in the well.

Purge Rate: —

Sampler's Initials ML

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-HC1R-090409

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic

Date 9/4/09 **Time** 900

Media Water **Station** HC-1R

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 13.23' btoc @ 1438 9/1/09

LNAPL Thickness = Ø

Screened Interval = ? bottom of well @ 18.00' btoc

Pump Intake = 15.5' btoc

Sample Description Clear, petroleum odor

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(1)- 1Liter Diesel	Glass	HCL
~~(1)- 1Liter~~	~~Glass~~	~~HCL~~
(2) – 1 Liter PAH	Glass	None
~~(3) – 40 mL~~	~~VOA~~	~~HCL~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
(1) – 500 mL Total metals	Poly/HDPE	Nitric
(1) – 500 mL Diss. metals	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/4/09

Supervisor (signature) [signature] **Date** 10/2/2009

FIELD PARAMETERS SHEET

Well ID HC-1R
Date 9/4/09
Time Begin Purge 800
Time Collect Sample 900

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C (cond. meter)	Turbidity NTU	DO mg/L	eH rel mV
13.28	746							
13.29	815		6.28	288.6	10.3	58.6	0.11	N/A
13.29	820		6.39	289.6	10.3	33.3	0.10	
13.29	825		6.43	288.8	10.2	29.6	0.10	
13.29	830		6.43	288.1	10.3	21.7	0.09	
13.30	835		6.45	288.5	10.3	12.1	0.07	
13.30	840		6.45	288.6	10.3	6.91	0.07	
13.30	845		6.45	288.5	10.3	4.34	0.07	
13.30	850		6.45	287.8	10.3	3.51	0.06	

4 gallons

Comments: Water has a petroleum odor.

(4.72' water) × 0.17 = .802 + (4.72' water × 2.55 gal/ft) × 0.25 = 3.81 gallons / 1 well volume

When the pump was turned some orange, organic material was purged.

Purge Rate: 420 mL/min

Sampler's Initials M

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-EW3-090409

Sampling Location Golder Monitoring Wells – Bentic Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic

Date 9/4/09 **Time** 1120

Media Water **Station** EW-3

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 12.18' btoc (silver pipe NW side) @ 1339 9/4/09

LNAPL Thickness = Ø

Screened Interval = ? bottom of well @ 15.75' btoc

Pump Intake = 13.50' btoc

Sample Description Clear, no odor

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
3 (1) - 1Liter Diesel	Glass	HCL
~~(1) 1Liter~~	~~Glass~~	~~HCL~~
6 (2) – 1 Liter PAH	Glass	None
~~(3) – 40 mL~~	~~VOA~~	~~HCL~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
3 (1) – 500 mL Total Metals	Poly/HDPE	Nitric
3 (1) – 500 mL Diss. Metals	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/4/09

Supervisor (signature) [signature] **Date** 10/2/2009

Golder Associates Inc.

FIELD PARAMETERS SHEET

Well ID EW-3
Date 9/4/09
Time Begin Purge 955
Time Collect Sample 1120

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C (cond meter)	Turbidity NTU	DO mg/L	eH rel mV
12.23	927							
12.23	1005	6.04	6.04	166.3	12.3	6.61	0.20	
12.23	1010		6.11	166.4	12.3	6.82	0.17	
12.23	1015		6.08	166.2	12.3	6.92	0.14	
12.23	1020		6.12	166.4	12.3	6.24	0.11	
12.23	1025		6.14	166.1	12.3	6.75	0.09	
12.23	1030		6.13	166.1	12.3	7.19	0.09	4 gal.
12.23	1035		6.16	165.6	12.4	6.98	0.07	
12.23	1040		6.17	165.4	12.4	6.80	0.08	
12.23	1045		6.18	165.5	12.4	6.83	0.08	
12.23	1050		6.17	165.4	12.4	7.08	0.09	
12.23	1055		6.17	164.9	12.5	7.02	0.08	

Comments: no sheen observed on water surface.
Collected extra volume for ms/msD.
Left drop tube in well. Bottom of drop tube = ~12.5' btoc.

Purge Rate: 380 mL/min turned down @1019

Sampler's Initials KL

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-EW4-090409

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic

Date 9/4/09 **Time** 1340

Media Water **Station** EW-4

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 12.85' btoc (green) @ 1346 9/1/09

LNAPL Thickness = Ø sheen on water

Screened Interval = ? bottom @ 15.5' btoc

Pump Intake = 14' btoc

Sample Description Clear, no odor

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(1)- 1Liter Diesel	Glass	HCL
~~(1)- 1Liter~~	~~Glass~~	~~HCL~~
(2) – 1 Liter PAH	Glass	None
~~(3) – 40 mL~~	~~VOA~~	~~HCL~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
(1) – 500 mL Total metals	Poly/HDPE	Nitric
(1) – 500 mL Diss. metals	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/4/09

Supervisor (signature) [signature] **Date** 10/2/2009

FIELD PARAMETERS SHEET

Well ID EW-4
Date 9/4/09
Time Begin Purge 1232
Time Collect Sample 1320

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C (cond. meter)	Turbidity NTU	DO mg/L	eH rel mV
13.00	1200							
13.00	1242		6.21	166.6	13.6	4.63	0.14	N/A
13.00	1247		6.27	165.8	13.4	4.98	0.09	
13.00	1252		6.27	165.7	13.4	4.48	0.08	
13.00	1257		6.28	165.0	13.5	4.44	0.07	
13.00	1302		6.27	164.3	13.5	4.20	0.06	
13.00	1307		6.28	163.9	13.7	4.45	0.06	
	1312							

Comments: purged approx 3.5 gal
Drop tube installed (& left in place) down to 13.5' btoc.

Purge Rate: 340 mL/min

Sampler's Initials MA

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-EMW04-090409

Sampling Location Golder Monitoring Wells – ~~West Side~~ Center of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic

Date 9/4/09 **Time** 1535

Media Water **Station** EMW-04

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 13.63' btoc @1046 9/1/09

LNAPL Thickness = Thin layer -installed drop tube to 14.5' btoc

Screened Interval = 10-17' bgs

Pump Intake = 15.5' btoc

Sample Description petroleum odor, clear

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(1)- 1 Liter Diesel	Glass	HCL
~~(1)- 1 Liter~~	~~Glass~~	~~HCL~~
(2) – 1 Liter PAH	Glass	None
~~(3) – 40 mL~~	~~Glass~~	~~HCL~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
(1) – 500 mL Total Metals	Poly/HDPE	Nitric
(1) – 500 mL Diss. Metals	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/4/09

Supervisor (signature) [signature] **Date** 10/2/2009

Golder Associates Inc.

FIELD PARAMETERS SHEET

Well ID EMW-04
Date 9/4/09
Time Begin Purge 1450
Time Collect Sample 1555

cond. meter.

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	Turbidity NTU	DO mg/L	eH rel mV
13.68	1500		6.49	306	12.1	4.00	0.11	N/A
	1505		6.62	298	12.1	2.26	0.08	
	1510		6.65	292	12.0	1.57	0.07	
	1515		6.67	288.9	12.0	1.67	0.07	
	1520		6.69	287.1	11.8	1.28	0.06	
	1525		6.69	285.6	11.9	0.76	0.06	
	1530							

Comments: Water level readings not collected during the purge because the drop tube was in place within the casing → not enough room for the water level meter.

$(3.32 \times 0.17) + (2.55 \times 3.32) \times 0.25 =$ **2.7 gallons = 1 well volume**

.5644

Sheen on water purged from the well. Petroleum odor.

- no PID readings

Purge Rate: 340 mL/min

17.
- 13.68
3.32

Sampler's Initials KL

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-EMW05-090509

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic

Date 9/5/09 **Time** 1125

Media Water **Station** ~~MW-11~~ EMW-05

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 14.68 @ 1102 9/1/09

LNAPL Thickness = Ø

Screened Interval = 9.5' – 19.5' bgs / bottom @ 19.5'

Pump Intake = 16' btoc

Sample Description Clear with a medium strength petroleum odor

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(1)- 1Liter	Glass	HCL
(1)- 1Liter	Glass	HCL
(2) – 1 Liter	Glass	None
(3) – 40 mL	VOA	HCL
(1) – 1 Liter	Glass	None
(1) – 1 Liter	Glass	None
(1) – 500 mL	Poly/HDPE	Nitric
(1) – 500 mL	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/5/09

Supervisor (signature) [signature] **Date** 10/2/2009

FIELD PARAMETERS SHEET

Well ID EMW-05
Date 9/5/09
Time Begin Purge 1023
Time Collect Sample 1125

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	Turbidity NTU	DO mg/L	eH rel mV
14.78	1018							
14.88	1033		6.50	229.2	11.1	1.67	0.77	N/A
14.88	1038		6.59	229.7	10.8	0.73	0.13	
14.89	1043		6.65	229.3	10.7	0.67	0.17	
14.88	1048		6.69	229.0	10.7	0.55	0.17	
14.88	1053		6.71	228.8	10.8	0.54	0.17	
14.88	1058		6.73	229.0	10.8	0.50	0.16	
14.89	1103		6.74	228.7	10.8	0.53	0.11	
14.89	1108		6.75	229.2	10.7	0.54	0.09	
14.89	1113		6.76	228.8	10.8	0.18	0.08	

Comments: - This well was sampled in replace of MW-11 which did not have water.
- Drop tube was not installed because no floating product was observed

- Water had a medium strength petroleum odor

Volume = 19.5 - 14.78 = (4.72)(0.17) = 0.80
(2.55)(4.72) = (12.04)(0.25) = 3.0
= 3.80 gal

Purge Rate: 260 mL/min

Sampler's Initials M

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-EMW06-090509

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic

Date 9/5/09 **Time** 1325

Media Water **Station** EMW-06

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 13.89' btoc 1209 9/1/09

LNAPL Thickness = 0.24'

Screened Interval = 8.5' – 18.5' bgs bottom 18.5' bgs

Pump Intake = 16' btoc drop tube to 15' btoc

Sample Description Clear, slight petroleum odor

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(1)- 1 Liter Diesel	Glass	HCL
~~(1)- 1 Liter~~	Glass	HCL
(2) – 1 Liter PAH	Glass	None
~~(3) – 40 mL~~	VOA	HCL
~~(1) – 1 Liter~~	Glass	None
(1) – 1 Liter	Glass	None
(1) – 500 mL Total Metals	Poly/HDPE	Nitric
(1) – 500 mL Diss. Metals	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/5/09

Supervisor (signature) [signature] **Date** 10/2/2009

FIELD PARAMETERS SHEET

Well ID EMW-06
Date 9/5/09
Time Begin Purge 1228
Time Collect Sample 1325

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C (cond. meter)	Turbidity NTU	DO mg/L	eH rel mV
13.89	1209			213.8	12.6		0.12	
	1238		6.48	213.8	12.6	1.23	0.12	N/A
	1243		6.54	213.4	12.5	0.33	0.09	
	1248		6.58	213.9	12.4	0.32	0.07	
	1253		6.61	213.8	12.5	0.25	0.07	
	1258		6.62	212.9	12.6	0.25	0.07	
	1303		6.64	213.4	12.6	0.27	0.07	
	1308		6.65	213.6	12.6	0.28	0.07	
	1318		6.66	213.0	12.6		0.06	

Comments: Could not get water level reading on 9/5/09 because water probe covered in oil preventing water alarm to go off. Drop tube prevented from getting water level readings during purge

- Drop tube down to 15' btoc. Pump intake @ 16' btoc

- 13.89 - 18.5 = 4.61' wet screen (4.61)(0.17) = 0.784
(4.61)(2.55)(0.25) = 2.94 + 0.78 = 3.7 gallons of water

- Oil sheen on discharge bucket surface

Purge Rate: 320 mL/min

Sampler's Initials Kh

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-DW01-090209

Sampling Location Golder Monitoring Wells – ~~West Side~~ Center of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic

Date 9/2/09 **Time** 1850

Media Water **Station** DW-01

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 11.54' btoc @ 954 9/1/09

Screened Interval = ? bottom @ 68' btoc?

Pump Intake = 25' btoc

Sample Description slightly turbid (v. light brown hue), no odor. Filtered sample was clear

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(1)- 1Liter TPH-Dx	Glass	HCL
(2)- 1Liter PAH,	Glass	~~HCL~~ Unpreserved
~~(2)- 1Liter~~	~~Glass~~	~~None~~
~~(3)- 40 mL~~	~~VOA~~	~~HCL~~
~~(1)- 1 Liter~~	~~Glass~~	~~None~~
~~(1)- 1 Liter~~	~~Glass~~	~~None~~
(1) – 500 mL Total metals	Poly/HDPE	Nitric
(1) – 500 mL Dissolved metals	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/2/09

Supervisor (signature) [signature] **Date** 10/2/2009

DW-01

Golder Associates Inc.

FIELD PARAMETERS SHEET

Well ID DW-01
Date 9/2/09
Time Begin Purge 1654
Time Collect Sample 1850

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C (cond. meter)	Turbidity NTU	DO mg/L	eH rel mV
11.58	1650							
11.58	1704		6.69	245.9	9.3	219	0.35	N/A
11.58	1709		6.76	245.2	9.3	192	0.35	
11.58	1714		6.84	245.3	9.3	174	0.18	
11.58	1719		6.88	245.2	9.1	158	0.16	
11.58	1724		6.93	245.1	9.2	161	0.15	
11.58	1729		6.94	244.3	9.1	135	0.16	
11.58	1734		6.95	244.3	9.1	138	0.24	
11.58	1739		6.96	244.0	9.1	134	0.12	
11.58	1744		6.97	243.8	9.0	124	0.13	
11.58	1749		6.98	243.6	9.0	119	0.13	
11.58	1759		7.00	242.8	9.0	115	0.14	
11.58	1809		7.01	241.7	9.0	103	0.14	
11.58	1819		7.01	242.1	9.0	109	0.14	
11.58	1829		6.99	241.5	9.0	99.3	0.15	
11.58	1839		6.99	240.7	9.1	97.0	0.16	

Comments: Orange water (rusty-iron floc) being purged from well. Slowly decreasing over time, but eventually stabilizing around 100 NTU (~~97~~-109). All other parameters have stabilized. Water is fairly clear w/ some floating particles. Not orange anymore.
Possibly high in iron due to rusting screen?

Purge Rate: 460 mL/min

Sampler's Initials KL

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-GA1-090509

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic

Date 9/5/09 **Time** 940

Media Water **Station** GA-1

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 13.60' btoc @ 10:04 9/1/09

LNAPL Thickness = <0.01" on 9/1/09 → none on 9/5/09

Screened Interval = 6-21' bgs bottom @ 21' bgs

Pump Intake = 16' btoc drop tube @ 15' btoc

Sample Description Clear, light petroleum odor.

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(1)- 1Liter Diesel	Glass	HCL
(2)- 1Liter PCB	Glass	~~HCL~~ None
(2) – 1 Liter PAH	Glass	None
~~(3) – 40 mL VOA~~	~~VOA~~	~~HCL~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
(1) – 500 mL Total Metals	Poly/HDPE	Nitric
(1) – 500 mL Diss. Metals	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/5/09

Supervisor (signature) [signature] **Date** 10/2/2009

FIELD PARAMETERS SHEET

Well ID GA-1
Date 9/5/09
Time Begin Purge 806
Time Collect Sample 940

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C (cond. meter)	Turbidity NTU	DO mg/L	eH rel mV
13.67	738							
	816		6.56	352	10.8	126	0.18	N/A
	821		6.61	353	10.6	62.1	0.12	
	826		6.65	351	10.9	32.7	0.10	
	831		6.66	352	10.6	21.0	0.08	
	836		6.67	351	10.6	13.6	0.06	
	841		6.68	349	10.7	10.4	0.06	
	846		6.68	349	10.6	7.82	0.05	
	851		6.69	347	10.8	5.46	0.04	
	856		6.69	349	10.7	4.74	0.04	
	901		6.68	348	10.7	4.48	0.05	
	906		6.69	348	10.7	3.19	0.05	
	911		6.69	347	10.8	2.70	0.05	
	916		6.69	348	10.7	2.21	0.04	
	921		6.67	348	10.7	1.73	0.04	

Comments: * Could not do water levels during the purge because of the presence of the drop tube.
* Water has petroleum odor & a sheen was observed in the purge bucket.

13.67 − 21 = 7.33(0.17) = 1.25 gal
(2.55)(7.33) = (18.69)(0.25)
= 4.67 + 1.25 = 5.9 gallons

Ø on PID

Purge Rate: 300 mL/min

Sampler's Initials KL

(1)

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-GA2-090209

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic

Date 9/2/09 **Time** 1215

Media Water **Station** GA-2

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 8.62' btoc @ 935 9/1/09

LNAPL Thickness = Ø

Screened Interval = 5.1' bgs – 20.1' bgs

Pump Intake = 13' btoc

7.46 gal = 1 well volume

Sample Description clear, no odor

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount		Container	Preservation / Amount
(1)- 1Liter	Diesel	Glass	HCL
(2)- 1Liter	PCBs	Glass	~~HCL~~ None
(2) – 1 Liter	PAHs	Glass	None
~~(3) – 40 mL~~		~~VOA~~	~~HCL~~
~~(1) – 1 Liter~~		~~Glass~~	~~None~~
(1) – 1 Liter		Glass	None
(1) – 500 mL	metals	Poly/HDPE	Nitric
(1) – 500 mL	filtered metals	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/2/09

Supervisor (signature) [signature] **Date** 10/2/2009

Golder Associates Inc.

2

FIELD PARAMETERS SHEET

Well ID GA-2
Date 9/2/09
Time Begin Purge 1000
Time Collect Sample 1215

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C (cond.)	Turbidity NTU	DO mg/L	eH rel mV	
8.64	950								
8.70	1010		6.75	190.7	11.3	29.9	2.53	N/A	
8.70	1015		6.85	185.1	11.3	41.6	1.17		
8.70	1020		6.84	180.6	11.5	60	0.43		
8.70	1025		6.84	179.7	11.5	56.3	0.48		
8.70	1030		6.86	176.4	11.5	59.7	0.45		
8.70	1035		6.88	174.5	11.5	48.6	0.51		4 gallons purged
8.70	1040		6.89	174.1	11.5	42.2	0.42		
8.70	1045		6.91	172.1	11.5	39.2	0.36		
8.70	1050		6.93	170.5	11.5	26.0	0.31		
8.70	1055		6.94	169.1	11.4	20.2	0.27		
8.70	1100		6.95	170.0	11.5	29.5	0.25		
8.70	1105		6.95	169.0	11.5	31.4	0.23		
8.70	1110		6.95	170.2	11.5	26.2	0.21		8 gallons purge
8.70	1123		6.95	168.4	11.5	17.2	0.13		
8.70	1132		6.98	167.2	11.4	11.7 (9.25)	0.13		
8.70	1146		6.98	167.1	11.4	7.53	0.11		

Comments: Turbidity decreased to 20 NTU & then started increasing slightly.

Purge Rate: 300 mL/min up to 380 mL/min 9/2/09

Sampler's Initials JL

FIELD PARAMETERS SHEET

Well ID GA-2
Date 9/2/09
Time Begin Purge 1000
Time Collect Sample

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	Turbidity NTU	DO mg/L	eH rel mV
8.70	1156		6.98	166.7	11.4	5.12	0.08	N/A
8.70	1201		6.98	167.9	11.4	4.69	0.09	

Comments:

Purge Rate:

Sampler's Initials ll

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-GA3-090309 Time 940

G-GA3D-090309 (Duplicate) 945

Sampling Location Golder Monitoring Wells – West Side of Property ~~G-GA3S-090309~~ (split) 950

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic

Date 9/3/09 **Time** ~~GA3 GA3D GA3S~~ 940 : 945 : 950

Media Water **Station** GA-3

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 15.92' btoc 9/1/09 @ 945

LNAPL Thickness = Ø

Screened Interval = 11.5-26.5' bgs bottom @ 26.5'

Pump Intake = 19' btoc

Sample Description Clear, no odor

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

	Aliquot Amount	Container	Preservation / Amount
X	(3) 1 L	Glass Amber	HCL
-B	(6) 1 L	" "	None
TH	(6) 1 L	" "	None
tal	(3) 500 mL	Poly	Nitric
dissolved	(3) 500 mL	"	"

Sampler (signature) [signature] **Date** 9/3/09

Supervisor (signature) [signature] **Date** 10/2/2007

FIELD PARAMETERS SHEET

Well ID GA-3
Date 9/3/09
Time Begin Purge 733
Time Collect Sample

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm (cond. meter)	Temp. °C	Turbidity NTU	DO mg/L	eH rel mV
15.94	720							
15.98	743		6.81	105.2	13.8	48	0.22	N/A
15.98	748		6.87	105.6	13.7	34.8	0.18	
15.98	753		6.93	104.6	13.7	27.2	0.16	
15.98	758		6.93	104.4	13.7	22.6	0.15	
15.98	803		6.96	104.6	13.7	15.6	0.10	
15.99	808		6.99	105.4	13.6	7.52	0.10	
15.99	813		7.00	105.5	13.6	5.05	0.09	
15.99	818		7.01	105.3	13.7	3.56	0.10	
15.99	823		7.02	105.0	13.6	2.91	0.08	
15.99	828		7.03	105.2	13.7	2.57	0.08	4 gallons
15.99	833		7.04	104.2	14.0	2.31	0.08	
15.99	838		7.05	104.5	13.7	1.97	0.06	
15.99	843		7.05	103.7	13.6	1.62	0.05	
15.99	848		7.06	103.4	13.7	1.47	0.05	
15.99	913		7.06	102.6	14.2	1.38	0.08	
15.99	923		7.06	101.7	14.0	1.89	0.06	

Comments: 10.56 ft water x 0.17 gal/ft = 1.79 + (10.56 x 2.55) x 0.25 = 8.5 gal → 1 well volume

collected duplicate & split samples.

Purge Rate: 290 mL/min → 300 mL/min

Sampler's Initials JU

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-GA4-090209

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic

Date 9/2/09 **Time** 1430

Media Water **Station** GA-4

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 9.81' btoc @ 924 9/1/09

LNAPL Thickness = Ø

Screened Interval = 6' – 21' bgs

Pump Intake = 14' btoc

Sample Description clear, no odor

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(1)- 1Liter	Glass	HCL
(2)- 1Liter	Glass	~~HCL~~ none
(2) – 1 Liter	Glass	None
~~(3) – 40 mL~~	~~VOA~~	~~HCL~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
(1) – 500 mL	Poly/HDPE	Nitric
(1) – 500 mL	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/2/09

Supervisor (signature) [signature] **Date** 10/2/2009

FIELD PARAMETERS SHEET

Well ID GA-4
Date 9/2/09
Time Begin Purge 1300
Time Collect Sample 1430

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C (one meter)	Turbidity NTU	DO mg/L	eH rel mV
9.86	1300							
9.86	1320		6.72	214.8	11.2	76.8	1.49	N/A
9.86	1325		6.74	212.9	11.3	52.1	1.53	
9.86	1330		6.74	212.1	11.3	33.8	1.61	
9.86	1335		6.76	210.4	11.3	26.7	1.71	
9.86	1340		6.75	209.2	11.4	13.1	1.69	
9.86	1345		6.76	206.7	11.4	6.63	1.81	
9.86	1350		6.75	208.4	11.1	4.62	1.80	
9.86	1355		6.75	207.5	11.3	3.84	1.80	
9.86	1400		6.75	205.9	11.4	3.12	1.89	
9.86	1405		6.75	203.4	11.4	3.09	1.94	
9.86	1410		6.74	203.7	11.5	2.16	1.99	
9.86	1415		6.74	203.1	11.6	1.31	1.94	
9.86	1420		6.74	201.9	11.6	1.75	1.96	
	1425							

4 gal

Comments: 1.7 + 6.375 = 8.075 galons 1 well volume

Purge Rate: 360 mL/min

Sampler's Initials M

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS1SED-4-090709

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler ~~Peristaltic~~ shovels, spoons

Date 9/7/09 **Time** 1350

Media Sediment **Station** RS-1 off shore

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level =

Screened Interval =

Pump Intake =

Sample Description silt to gravel + cobbles. no sheen, no odor, no other visual indications of impact

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(3) – 40 mL	VOA	Methanol ~~½ Na2S2O3~~ Sodium Bisulfate
(1) – 8 ounce	Glass	None
1-4oz	glass	–

Sampler (signature) [signature] **Date** 9/7/09

Supervisor (signature) [signature] **Date** 10/2/2009

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS1SED-0-090709

Sampling Location Golder Monitoring Wells – ~~West Side of~~ Bennett Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic

Date 9/7/09 **Time** 1355

Media Sediment **Station** RS-1 nearshore

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level =

Screened Interval =

Pump Intake =

Sample Description silt + sand, ~~some~~ little organic material. no sheen, no odor, no visual indications of impact

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(3) – 40 mL	VOA	Methanol / $NaHSO_4H_2O$
(1) – 8 ounce	Glass	None
1 - 4oz		

Sampler (signature) [signature] **Date** 9/7/09

Supervisor (signature) [signature] **Date** 10/2/2009

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS2SED-3-090709

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler ~~Peristaltic~~ trowel

Date 9/7/09 **Time** 1615

Media Sediment **Station** RS-2 off-shore

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 2 1/2'

Screened Interval =

Pump Intake =

Sample Description Sand & gravel overlain by cobbles, sheen on surface water, sheen in sample jar, and small flecks of oil in sample jar. Petroleum odor.

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(3) – 40 mL	VOA	Methanol / sodium bisulfate
1 (2) – 8 ounce	Glass	None
1- 4oz.	"	—

Sampler (signature) [signature] **Date** 9/07/09

Supervisor (signature) [signature] **Date** 10/2/2009

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS2SED-0-090709

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler ~~Peristaltic~~ trowel

Date 9/7/09 **Time** 1620

Media Sediment **Station** RS-2 nearshore

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 0-6"

Screened Interval =

Pump Intake =

Sample Description silt to sand with fine gravel. Pieces of asphalt & charred wood & organic debris. Occassional sheen on water in vicinity of sample & petroleum odor in air.

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(3) – 40 mL	VOA	Methanol / sodium bisulfate
(2) – 8 ounce	Glass	None
1 - 4oz	"	—

Sampler (signature) [signature] **Date** 9/7/09

Supervisor (signature) **Date**

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS3SED-0-090807

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler ~~Peristaltic~~ trowel

Date 9/8/09 **Time** 1110

Media Sediment **Station** RS-3 nearshore

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 1/2 - 1'

Screened Interval =

Pump Intake =

Sample Description sand w/some gravel, strong petroleum odor, free product released from sediment & fabric during sample excavation, sheen in sample. collected from between 2 boulders @ shoreline

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(3) – 40 mL	VOA	Methanol / sodium bisulfate
(1) – 8 ounce	Glass	None
1 - 4 oz	"	—

Sampler (signature) [signature] **Date** 9/8/09

Supervisor (signature) [signature] **Date** 10/2/2009

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS3SED-4-090809

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler ~~Peristaltic~~ trowel

Date 9/8/09 **Time** 11:15

Media Sediment **Station** RS-3 offshore

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 2'

Screened Interval =

Pump Intake =

Sample Description sampled sand + gravel sediment below cobbles on riverbed. Some of the sediment covered in free product. Strong petrol odor, sheen & free product in sample.

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(3) – 40 mL	VOA	Methanol / sodium bisulfate
(1) – 8 ounce	Glass	None
1-4oz	"	—

Sampler (signature) [signature] **Date** 9/8/09

Supervisor (signature) [signature] **Date** 10/2/2009

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS4SED-0-090809

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler ~~Peristaltic~~ trowel

Date 9/8/09 **Time** 1220

Media Sediment **Station** RS-4 nearshore

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = Ø

Screened Interval =

Pump Intake =

Sample Description Sand with gravel, product seeping from soil during sample excavation. Strong petroleum odor, sheen on soil. collected sediment between two boulders adj. to grass. w/in spill boom area. surface of sediment prior to sampling had a layer of the orange organic material.

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(3) – 40 mL	VOA	Methanol
(1) – 8 ounce	Glass	None
1-4oz	—	"

Sampler (signature) [signature] **Date** 9/8/09

Supervisor (signature) [signature] **Date** 10/2/2009

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS4SED-4-090809

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic

Date 9/8/09 **Time** 1225

Media ~~Sediment~~ trowel **Station** RS-4 offshore

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 2'

Screened Interval =

Pump Intake =

Sample Description sandy gravel. Sample collected 5' downstream of jetty 4' offshore, outside (downstream) of the spill boom. Sed. had slight petrol odor, sheen in sample, and occassional floating product blebs

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(3) – 40 mL	VOA	Methanol / sodium bisulfate
(1) – 8 ounce	Glass	None
1 - 4oz	"	—

Sampler (signature) **Date** 9/8/09

Supervisor (signature) **Date** 10/2/2009

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS5SED-0-090809 G-RS5DSED-0-090809 (dup) G-RS5SSED-0-090809 (split)

Sampling Location Golder Monitoring Wells – ~~West Side~~ Lower of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler ~~Peristaltic~~ trowel

Date 9/8/09 **Time** 830; 835; 840

Media Sediment **Station** RS-5 nearshore

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 0-3"

Screened Interval =

Pump Intake =

Sample Description sand with little silt & fine gravel. mild petroleum odor. sheen on sand, in sample jar, and on surface water. slight orange hue to surface of sediment.

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(3) – 40 mL	VOA	Methanol / sodium bisulfate
(1) – 8 ounce	Glass	None
1 - 4oz	"	—

Sampler (signature) [signature] **Date** 9/8/09

Supervisor (signature) [signature] **Date** 10/2/2009

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS5SED-4-090809

Sampling Location Golder Monitoring Wells – ~~West~~ Center Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler ~~Peristaltic~~ trowel

Date 9/8/09 **Time** 845

Media Sediment **Station** RS- 5 offshore

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 6"-9"

Screened Interval =

Pump Intake =

Sample Description surface of sediment & rocks covered by thick orange organic growth. Some of the orange organics were put into sample. silty coarse sand & gravel overlain by cobbles. strong petroleum odor to sediment & in air. sheen in sample jars & on surface water as soil was excavated.

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(3) – 40 mL	VOA	Methanol / Sodium bisulfate
(1) – 8 ounce	Glass	None
1 – 4oz	"	—

Sampler (signature) [signature] **Date** 9/8/09

Supervisor (signature) [signature] **Date** 10/2/2009

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS6SED-0-090809

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler ~~Peristaltic~~ trowel

Date 9/8/09 **Time** 740

Media Sediment **Station** RS- 6 nearshore

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = ϕ

Screened Interval =

Pump Intake =

Sample Description sheen on soil on beach, sheen on water during soil excavation. no odor. silty sand.

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
9 (3) – 40 mL	VOA	Methanol / Sodium bisulfate
3 (1) – 8 ounce	Glass	None
3 - 4oz	"	—

Sampler (signature) [signature] **Date** 9/8/09

Supervisor (signature) [signature] **Date** 10/2/2009

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS6SED-3-090509

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler ~~Peristaltic~~ trowel

Date 9/8/09 **Time** 735

Media Sediment **Station** RS-6 offshore

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 1.5'

Screened Interval =

Pump Intake =

Sample Description sheen on surface water, sheen in sample jar. silty sand with some organic debris. no odor. Lots of deposited sediment underwater on top of the cobbles. Flat water

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(3) – 40 mL	VOA	Methanol / sodium bisulfate
(2) – 8 ounce	Glass	None
1 - 4oz	"	—

Sampler (signature) [signature] **Date** 9/8/09

Supervisor (signature) [signature] **Date** 10/2/2009

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS7SED-0-090709

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler ~~Peristaltic~~ trowel

Date 9/7/09 **Time** 1530

Media Sediment **Station** RS-7 nearshore

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 0

Screened Interval =

Pump Intake =

Sample Description silty sand with orange colored surface sediment underlain by gray silty sand. no odors, no sheen.

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(3) – 40 mL	VOA	Methanol & Sodium bisulfate
1 (2) – 8 ounce	Glass	None
1 - 4oz	glass	—

Sampler (signature) [signature] **Date** 9/7/09

Supervisor (signature) [signature] **Date** 10/2/2009

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS7SED-4-090709

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic

Date 9/7/09 **Time** 1525

Media Sediment **Station** RS- 7 offshore

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 1½'

Screened Interval =

Pump Intake =

Sample Description trace silt, gravel coarse sand, no sheen, no odor. pink sediment/sand
↑ overlain by cobbles

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(3) – 40 mL	VOA	Methanol ½ sodium bisulfate
(2) – 8 ounce	Glass	None
1 4 oz	glass	—

Sampler (signature) [signature] **Date** 9/7/09

Supervisor (signature) [signature] **Date** 10/2/2009

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS8SED-0-090709

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler ~~Peristaltic~~ trowel

Date 9/7/09 **Time** 1450

Media Sediment **Station** RS-8 nearshore

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = Ø

Screened Interval =

Pump Intake =

Sample Description silty sand w/ roots. no odor, no sheen, no visual observations of impacted material.

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(3) – 40 mL	VOA	Methanol & sodium bisulfate
~~(2)~~ – 8 ounce	Glass	None
1 4oz	glass	–

Sampler (signature) [signature] **Date** 9/07/09

Supervisor (signature) [signature] **Date** 10/2/2009

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** Q-RS8SED-3-090709

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler ~~Peristaltic~~ trowel/spoon

Date 9/7/09 **Time** 1445

Media Sediment **Station** RS- 8 offshore

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 1'

Screened Interval =

Pump Intake =

Sample Description silty sand & gravel overlayed by cobbles, no odor, no sheen, no visual observations of impacted material

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(3) – 40 mL	VOA	Methanol & sodium bisulfate
(~~2~~) – 8 ounce	Glass	None
1-~~4~~ oz	glass	-

Sampler (signature) [signature] **Date** 9/7/09

Supervisor (signature) [signature] **Date** 10/2/2009

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS1SW-090609

Sampling Location Golder Monitoring Wells – ~~West~~ East Side of Property (Bentik)

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic/grab

Date 9/6/09 **Time** 945

Media Surface Water **Station** RS-1

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 9"-1'

Screened Interval =

Pump Intake =

Sample Description clear, no odor
no petroleum seepage @ this point.

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(1)- 1Liter Diesel	Glass	HCL
~~(1)~~- 1Liter PAH	Glass	~~HCL~~ None
(2) – 1 Liter PCB	Glass	None
~~(2) – 40 mL~~	~~VOA~~	~~HCL~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
(1) – 500 mL Total Metals	Poly/HDPE	Nitric
(1) – 500 mL Diss Metals	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/6/09

Supervisor (signature) [signature] **Date** 10/2/2009

River Station - Surface Water

Golder Associates Inc.

FIELD PARAMETERS SHEET

Well ID RS-1
Date 9/6/09
Time Begin Purge
Time Collect Sample

cond meter

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	Turbidity NTU	DO mg/L	eH rel mV
	1031		7.68	61.8	12.5	0.74	9.64	

Comments:

Purge Rate:

Sampler's Initials

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS2GW2 090609

Sampling Location Golder Monitoring Wells – ~~West~~ East Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic / grab

Date 9/6/09 **Time** 1045

Media Surface Water **Station** RS- 2

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 9'' - 1'

Screened Interval =

Pump Intake =

Sample Description Clear, Slight petroleum odor

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(1)- 1Liter Diesel	Glass	HCL
(2)- 1Liter PAH	Glass	~~HCL~~ None
(2) – 1 Liter PCB	Glass	None
(3) – 40 mL	VOA	HCL
(1) – 1 Liter	Glass	None
(1) – 1 Liter	Glass	None
(1) – 500 mL Total Metals	Poly/HDPE	Nitric
(1) – 500 mL Dissolved Metals	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/6/09

Supervisor (signature) [signature] **Date** 10/2/2009

FIELD PARAMETERS SHEET

Well ID RS72
Date 9/6/09
Time Begin Purge
Time Collect Sample 1045

cond meter

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	Turbidity NTU	DO mg/L	eH rel mV
	10.45	NA	7.33	58.7	14.3	0.46	9.75	

Comments: Black oil stained rocks, slight petroleum sheen on water & petroleum odor

Purge Rate:

Sampler's Initials ML

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS3SW-090609
G-RS3DSW-090609 (dup)
G-RS3SSW-090609 (split)

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic / grab

Date 9/6/09 **Time** D 11:40 ; S 1145 ; 1200

Media Surface Water **Station** RS- 3

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 1.5'

Screened Interval =

Pump Intake =

Sample Description clear, petroleum odor

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
~~(2)~~ - 1Liter Diesel	Glass	HCL
6 ~~(2)~~ - 1Liter PAH	Glass	~~HCL~~ None
6 ~~(2)~~ – 1 Liter PCB	Glass	None
~~(3) – 40 mL~~	~~VOA~~	~~HCL~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
3 ~~(1)~~ – 500 mL Total Metals	Poly/HDPE	Nitric
3 ~~(1)~~ – 500 mL Diss. Metals	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/06/09

Supervisor (signature) [signature] **Date** 10/2/2009

FIELD PARAMETERS SHEET

Well ID RS-3
Date 9/6/09
Time Begin Purge
Time Collect Sample 1140; 1145; 1200

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C (cond. meter)	Turbidity NTU	DO mg/L	eH rel mV
	1130	NA	7.79	698	15.0	0.54	9.92	

Comments: Sample collected from upstream end of spill boom. Large petroleum sheen on water. Strong petroleum odor. Small Globs of thin, brown product observed seeping from out from under the boulders @ this location.

Purge Rate:

Sampler's Initials M

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G- RS4SW-090609

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic/grab

Date 9/6/09 **Time** 1330

Media Surface Water **Station** RS-4

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 1'

Screened Interval =

Pump Intake =

Sample Description petroleum odor, clear

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(1)- 1Liter Diesel	Glass	HCL
(1)- 1Liter PAH	Glass	~~HCL~~ None
(2) – 1 Liter PCB	Glass	None
~~(3) – 40 mL~~	~~VOA~~	~~HCL~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
(1) – 1 Liter	Glass	None
(1) – 500 mL Total metals	Poly/HDPE	Nitric
(1) – 500 mL Diss. metals	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/6/09

Supervisor (signature) [signature] **Date** 10/2/2009

River Station - Surface Water **Golder Associates Inc.**

FIELD PARAMETERS SHEET

Well ID RS-4
Date 9/6/09
Time Begin Purge
Time Collect Sample 1330

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	Turbidity NTU	DO mg/L	eH rel mV
	1319	—	7.35	75.3	14.7	4.52	8.48	—

Comments: Sample collected from downstream end of spill booms where larges oil seep is located. Moved free oil out of the way when sample was collected, but oil sheen was present on the water.

Purge Rate:

Sampler's Initials RL

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS5SW-090609

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic / grab

Date 9/6/09 **Time** 1400

Media Surface Water **Station** RS-5

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 5"

Screened Interval =

Pump Intake =

Sample Description Clear with some orange organic matter. no odor.

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount		Container	Preservation / Amount
(1)- 1Liter	Diesel	Glass	HCL
~~2(1)~~- 1Liter	PAH	Glass	~~HCL~~ None
(2) – 1 Liter	PCB	Glass	None
~~(3) – 40 mL~~		~~VOA~~	~~HCL~~
~~(1) – 1 Liter~~		~~Glass~~	~~None~~
~~(1) – 1 Liter~~		~~Glass~~	~~None~~
(1) – 500 mL	Total metals	Poly/HDPE	Nitric
(1) – 500 mL	Dissolved metals	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/6/09

Supervisor (signature) [signature] **Date** 10/2/2009

River Station - Surface Water

Golder Associates Inc.

FIELD PARAMETERS SHEET

Well ID RST5
Date 9/6/09
Time Begin Purge
Time Collect Sample 1400

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	Turbidity NTU	DO mg/L	eH rel mV
	1357	—	7.15	85.2		1.32	8.65	

Comments: Sample collected at northwest corner of the wooden dock - in an area where all of the rocks are covered by orange organic material. A small sheen was located upstream of the sampling location.

Purge Rate: —

Sampler's Initials KL

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS6SW-090609

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic/grab

Date 9/6/09 **Time** 1450

Media Surface Water **Station** RS-6

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 1'

Screened Interval =

Pump Intake =

Sample Description clear, no odor

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
(1)- 1Liter Diesel	Glass	HCL
2(~~1~~)- 1Liter PAH	Glass	~~HCL~~ None
(2) – 1 Liter PCB	Glass	None
~~(3) – 40 mL~~	~~VOA~~	~~HCL~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
~~(1) – 1 Liter~~	~~Glass~~	~~None~~
(1) – 500 mL Total Metals	Poly/HDPE	Nitric
(1) – 500 mL Diss. Metals	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/6/09

Supervisor (signature) [signature] **Date** 10/2/2009

River Station - Surface Water **Golder Associates Inc.**

FIELD PARAMETERS SHEET

Well ID RS-6
Date 9/6/09
Time Begin Purge
Time Collect Sample 1450

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	Turbidity NTU	DO mg/L	eH rel mV
	1446	—	7.04	83.8	15.9	—	8.00	

Comments: Sample collected approximately 50' upstream of the sewer line that crosses over the river. A small sheen on the water and product coated pine needles/leaves were observed along the shoreline.

Purge Rate: —

Sampler's Initials KL

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G- RS7SW-090609

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic/grab

Date 9/ **Time** 1520

Media Surface Water **Station** RS- 7

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 9" - 1'

Screened Interval =

Pump Intake =

Sample Description clear, no odor

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount	Container	Preservation / Amount
3)- 1Liter Diesel	Glass	HCL
3)- 1Liter PAH	Glass	~~HCL~~ none
3) – 1 Liter PCB	Glass	None
(3) – 40 mL	VOA	HCL
(1) – 1 Liter	Glass	None
(1) – 1 Liter	Glass	None
3) – 500 mL Total metals	Poly/HDPE	Nitric
3) – 500 mL Diss. Metals	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/6/09

Supervisor (signature) [signature] **Date** 10/2/2009

River Station - Surface Water

Golder Associates Inc.

FIELD PARAMETERS SHEET

Well ID RS-7
Date 9/6/09
Time Begin Purge
Time Collect Sample 1520

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	Turbidity NTU	DO mg/L	eH rel mV
	1520	—	7.45	81.8	16.7	1.32	7.04	

Comments: Sample collected approximately 200' west of the above river sewer line where the river bank is low & the shoreline is not armored. no sheen or other impacts observed.

Collected extra volume for MS/MSD

Purge Rate:

Sampler's Initials YL

SAMPLE INTEGRITY DATA SHEET

Plant/Site Avery Landing Site **Project No.** 073-93312-03.5

Site Location Avery, Idaho **Sample ID** G-RS8SW-090609

Sampling Location Golder Monitoring Wells – West Side of Property

Technical Procedure Reference(s) TP-1.4-6a; TP-1.2-18; TP-1.2-20; TP-1.2-23; Golder QAPP

Type of Sampler Peristaltic / grab

Date 9/6/09 **Time** 1625

Media Surface Water **Station** RS-8

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level = 9"-1'

Screened Interval =

Pump Intake =

Sample Description clear, no odor

Field Measurements on Sample (pH, conductivity, etc.) See reverse side of document.

Aliquot Amount		Container	Preservation / Amount
(1)- 1Liter	Diesel	Glass	HCL
2 ~~(4)~~- 1Liter	PAH	Glass	~~HCL~~ None
(2) – 1 Liter	PCB	Glass	None
~~(3) – 40 mL~~	~~VOA~~	~~Glass~~	~~HCL~~
~~(1) – 1 Liter~~	~~Glass~~	~~Glass~~	~~None~~
~~(1) – 1 Liter~~	~~Glass~~	~~Glass~~	~~None~~
(1) – 500 mL	Total Metals	Poly/HDPE	Nitric
(1) – 500 mL	Diss. Metals	Poly/HDPE	Nitric

Sampler (signature) [signature] **Date** 9/6/09

Supervisor (signature) [signature] **Date** 10/2/2009

River Station - Surface Water **Golder Associates Inc.**

FIELD PARAMETERS SHEET

Well ID RS-8
Date 9/6/09
Time Begin Purge
Time Collect Sample 1625

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	Turbidity NTU	DO mg/L	eH rel mV
	1619		7.67	16.9	16.3	1.32	8.33	

Comments: Sample collected adj. to GA-3 along the brushy shoreline. No odor, sheen, or other visual indications of impacted water.

Purge Rate: –

Sampler's Initials KL