RETEC

FIELD ACTIVITY LOG

PROJECT: BNSF - Skykomish
JOB NO.: 01140204-0340
DAY & DATE: Mon July 30th, 2007

COMPLETED BY: D. Kinney
APPROVED BY:
SHEET 1 OF 1

FIELD ACTIVITY SUBJECT:
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: Gauging & surveying

TIME	
0810	D. Kinney arrived, everyone else is present
0820	Safety meeting - trains, crossing tracks, vehicles in town, slip, trip & fall, chemical hazards
0850	Aaron, Cassie & Fred to start product measurements & Dean to do gauging
1050	Cassie started gauging & Dean continued
1330	Done w/ gauging & product thicknesses, lunch break
1430	Setup to survey
1645	Completed surveying, organized vehicles for gw sampling
1710	Left site

VISITORS ON SITE:	CHANGES FROM PLANS OR IMPORTANT DECISIONS:
None	None
WEATHER CONDITIONS:	**IMPORTANT TELEPHONE CALLS:**
Clear, 60-85°F	None

PERSONNEL ON SITE: Dean Kinney, Aaron Jambrosic, Cassie Smith & Fred Merrill

RETEC

FIELD ACTIVITY LOG

PROJECT BNSF-Skykomish
JOB NO. 01140204-0340
DAY & DATE Tues, July 31st 2007

COMPLETED BY D. Kinney
APPROVED BY
SHEET 1 OF 2

FIELD ACTIVITY SUBJECT:
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: Groundwater sampling

TIME	
0745	Arrived onsite & setup to sample, Calibrated Horiba multimeter & LaMotte (model 2020) turbidity meter
0755	H&S meeting
0810	Setup on MW-16
0814	Started purging MW-16
0835	Sampled MW-16, took duplicate, labeled: MW160-0707
0857	Started purging 1B-W-1
0915	Sampled 1B-W-1
0951	Started purging 2A-W-11
1010	Sampled 2A-W-11
1024	Started purging MW-4
1050	Sampled MW-4
1107	Started purging MW-3
1125	Sampled MW-3
1142	Started purging 2A-W-10
1215	Sampled 2A-W-10
1227	Started purging 2A-W-9
1245	Sampled 2A-W-9
1305	Lunch
1341	Started purging MW-38
1410	Sampled MW-38
1427	Started purging MW-39

VISITORS ON SITE:	CHANGES FROM PLANS OR IMPORTANT DECISIONS:
None	None
WEATHER CONDITIONS:	**IMPORTANT TELEPHONE CALLS:**
Clear, 60-75°F	None

PERSONNEL ON SITE: Dean Kinney, Aaron Jaimbrosk, Cassie Smith & Fred Merrill

RETEC

FIELD ACTIVITY LOG

PROJECT BNSF-Skykomish
JOB NO. 01140204-0340
DAY & DATE Tues July 31st, 2007

COMPLETED BY D. Kinney
APPROVED BY
SHEET 2 OF 2

FIELD ACTIVITY SUBJECT:
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: GW Sampling

TIME	
1440	Sampled MW-39
1500	Took equipment blank; labeled: MW-500-0707
1528	Started purging 2A-W-22
1600	Sampled 2A-W-22
1628	Started purging 2A-W-6
1655	Sampled 2A-W-6
1710	Pumped purge water
1725	Reloaded van
1800	Left site

VISITORS ON SITE: None

CHANGES FROM PLANS OR IMPORTANT DECISIONS: None

WEATHER CONDITIONS: Clear, 75-80°F

IMPORTANT TELEPHONE CALLS: None

PERSONNEL ON SITE: Same as pg 1.

RETEC

FIELD ACTIVITY LOG

PROJECT BNSF - Skykomish
JOB NO. 01140204 - 0340
DAY & DATE Weds Aug 1st 2007

COMPLETED BY D. Kinney
APPROVED BY
SHEET 1 OF 1

FIELD ACTIVITY SUBJECT: GW Sampling
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

TIME	
0805	D. Kinney arrived onsite, C. Smith already setup on 5-W-14
0810	H&S meeting
0815	D. Kinney calibrated Horiba multimeter & Oakton turbidity meter & setup to sample
0839	Started purging 5-W-18
0910	Sampled 5-W-18
0940	Started purging 5-W-19
1000	Sampled 5-W-19; took duplicate; labeled: 5-W-19D-070
1051	Started purging 5-W-20
1115	sampled 5-W-20
1147	Started purging 1C-W-2
1210	Sampled 1C-W-2
1235	Dumped purge water & put equipment away
1325	Loading extra coolers & rearranging vans
1345	Left site for lab

VISITORS ON SITE: None

CHANGES FROM PLANS OR IMPORTANT DECISIONS: None

WEATHER CONDITIONS: Clear, 60 - 75 °F

IMPORTANT TELEPHONE CALLS: None

PERSONNEL ON SITE: Dean Kinney, Cassie Smith

RETEC **Field Activity Log**

Page: of

Project Name: BNSF Skykomish
Project Number:
Field Activity: GW Monitoring + Gauging

Completed By: Aaron Jumbrosi
Date: 07/30/07
Weather: sunny ~ 78°F
Personnel on site: Aaron Jumbrosi / Fred Murrell / Dean Kinney / Cassie Smith

0530 At office loading for sampling
0600 Depart for Skykomish with Fred.
0800 Arrive at Skykomish and Cassie Arrives
0810 Dean Arrives on site meet at Depot distribute materials for sampling and Gauging. Conduct HES meeting go over on truck safety, traffic potential contact with contaminants and product and PPE.
0830 Begin Product gauging with Fred and Cassie
1030 After product gauging training Cassie goes to gauge clean wells Fred + Aaron continue gauging product wells (see gauging sheet).
1300 End product gauging begin surveying surface water locations see surface water gauging sheet
1640 Could not determine if bench mark location for SK1 was correct, shoot it as backsite and IC-W-2 so we have at least one known elevation
1645 Complete surveying
Begin setting up for GW sampling and Clean up at site.
1730 Depart Skykomish for Monroe.
1830 Arrive at Fairgrounds in in Monroe.

RETEC **Field Activity Log**

Page: of

Project Name: BNSF Skykomish
Project Number:
Field Activity: GW Sampling + Gauging

Completed By: Aaron Jambrosic
Date: 7/31/07
Weather: sunny
Personnel on site: Aaron Jambrosic / Dean Kinney / Fred Merrill / Cassie Smith

0600 Depart Monroe for Skykomish pick up ice for samples on the way
0700 Arrive at Skykomish Aaron J. Fred M. Cassie Smith
conduct H+S meeting, on track safety, traffic + train when high visibility clothing, contact with contaminants in groundwater
Calibrate water Horiba multimeter and turbidity ~~meter~~ meter. And set up for sampling.
0730 Meters calibrate OK
0745 Dean Arrives on site
0800 H+S meeting with Dean
0805 Begin GW Sampling (see Sampling Areas)
0807 Began set up on 1B-W-2
0825 begin purging 1B-W-2
0835 Excessive draw down move to new location and will return once recharged and pump at low rate
0840 set up on 1B-W-3
0848 begin purging 0848
0938 end purging / begin sampling 1B-W-3-0707 @ 0938
1000 Begin set up on 1C-W-1
1010 begin purging 1C-W-1
1040 end purging begin sampling 1C-W-1-0707
1050 end sampling 1C-W-1 0707
1055 Begin ~~sampling 1C-W-3~~ FM ~~purging~~ setting up 1C-W-3 0707
1102 Begin purging 1C-W-3
1130 Begin sampling 1C-W-3 0707
1148 end sampling 1C-W-3-0707
1150 begin set up on 1C-W-4 0707
1152 begin purging 1C-W-4-0707

RETEC **Field Activity Log**

Project Name: BNSF Skykomish
Project Number:
Field Activity: GW Sampling + Gauging

Completed By: Aaron Jumbrosic / Fred Merrill
Date: 07/31/07
Weather: sunny ~80 °F
Personnel on site: Aaron Jumbrosic / Fred Merrill / Cassie Smith
Dem Kinney

1210 end purging 1C-W-4 / begin sampling 1C-W-4-0707
1245 end sampling 1C-W-4 clean up at well
1250 break for lunch
1325 begin set up on 1B-W-2
1338 began purging 1B-W-2
~~1413~~ 1415 began SAMPLING 1B-W-2-0707 @ 1415
1438 end sampling 1B-W-2
1442 begin set up on 1A-W-1
1450 begin purging 1A-W-1
1525 end purging / begin sampling 1A-W-1-0707 @ 1525
1540 end sampling 1A-W-1
1545 set up on 2A-W-1
1552 begin purging 2A-W-1
1602 begin sampling 2A-W-1
1615 end sampling 2A-W-1-0707 and duplicate collected
2A-W-100-0707 @ 1545
1620 return to 1A-W-1 to collect addition volume for analytes
1652 end sampling of additional volume
1654 clean up at 1A-W-1 and go to pick up more ice for samples.
~~1722~~ 17:17 Begin set up 1A-W-3
17:22 Begin purging @ 17:22 1A-W-3
17:52 Begin sampling @ 1A-W-3
18:06 Complete sampling 1A-W-3
clean up at site. dump purge water into drum on site.

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: Test America
Project Manager:
Address: 11720 North Crk Pkwy N, Ste 400
Phone: (425) 420-9200
City/State/ZIP: Bothell, WA 98011
Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method: Hand delivered
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: Skykomish
BNSF Project Name: Skykomish
BNSF Contact: Bruce Sheppard
BNSF Work Order No.: TT0100E02

CONSULTANT INFORMATION

Company: ENSR
Project Number: 01140-204-0340
Project Manager: Steve Howard
Address: 1011 SW Klickitat Way, Ste 207
Email: showard@ensr.aecom.com
City/State/ZIP: Seattle WA 98011
Phone: (206) 624-9349
Fax: (206) 624-7930

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 5- to 8-day Rush
- [ ] 2-day Rush
- [x] Standard 10-Day
- [ ] 3-day Rush
- [ ] Other _____

DELIVERABLES

- [x] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables? _____
- [x] EDD Req, Format? EQUIS

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	NWTPH-Dx w/o SGCU	NWTPH-Dx w/ SGCU	Method 8270 TIC						COMMENTS	LAB USE
1	2A-W-6-0707	4	7/31/07	1655	DWK	N		W	X	X								
2	S-W-18-	6	8/1/07	0910					X	X	X							
3	S-W-19-	6		1000					X	X	X							
4	S-W-190-	6		1015					X	X	X							
5	S-W-20-	6		1115					X	X	X							
6	IC-W-2-	2		1210					X									
7	S-W-14-	6		0845	CS				X	X	X							
8	S-W-15-	6		1020					X	X	X							
9	S-W-17-	6		1150					X	X	X							
10	S-W-16-	6		1245					X	X	X							
11																		
12																		
13																		
14																		
15																		

Relinquished By: (Elise)	Date/Time: 8/1/07 14:50	Received By:	Date/Time: 8/1/07 1450
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No

Comments and Special Analytical Requirements:

Custody Seal No.:

BNSF COC No.:

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

Rev 10/02/05

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: Test America
Address: 11720 North Cpk Pkwy N, Ste 400
City/State/ZIP: Redmond, WA 98011
Project Manager:
Phone: (425) 420-9200
Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method: Hand delivered
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
BNSF Project Name: Skykomish
BNSF Contact: Bruce Sheppard
Project State of Origin: WA
Project City: Skykomish
BNSF Work Order No.: [illegible]

CONSULTANT INFORMATION

Company: ENSR
Address: 1011 SW Klickitat Way Ste 207
City/State/ZIP: Seattle, WA 98134
Project Number: 01140224-039
Project Manager: Steve Howard
Email: showard@ensr.aecom.com
Phone: 206-678-5240 Fax: (206) 694-7555

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 8-day Rush
- [x] Standard 10-Day
- [ ] Other

DELIVERABLES

- [x] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [x] EDD Req, Format? EQuIS

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	NWTPH-Dx w/o SGCU	NWTPH-Dx w/ SGCU						COMMENTS	LAB USE
1	MW-16-0707	2	7/31/07	0835	DWK	N		W	X								
2	MW-16D-	2		0845					X								
3	1B-W-1-	2		0915					X								
4	2A-W-11-	2		1010					X								
5	MW-4-	2		1050					X								
6	MW-3-	2		1125					X								
7	2A-W-10-	2		1215					X								
8	2A-W-9-	2		1245					X								
9	SW-4-	2		0950	CS				X								
10	MW-19-	2		0850					X								
11	MW-34-	2		1100					X								
12	* MW-35-	2		1200					X		See note below						
13	MW-38-	2		1410	DWK				X								
14	MW-39-	2		1440					X								
15	MW-50-	2		1500					X								

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature] (ENSR)	8/1/07 14:30	[signature]	8/1/07 14:30
[signature]			

Received by Laboratory: | Date/Time: | Lab Remarks: | Lab: Custody Intact? ☐ Yes ☐ No

Comments and Special Analytical Requirements:

*MW-35 sample, please run NWTPH-Dx with silica gel cleanup after performing NWTPH-Dx w/o SGCU analysis if result is [illegible]

Custody Seal No.: | BNSF COC No.:

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES | DUPLICATE - CONSULTANT | Rev 10/02/05

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: Test America
Address: 11720 North Creek Pkwy N, Ste 400
City/State/ZIP: Bothell, WA 98011
Project Manager:
Phone: (425) 420-9200
Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method: Hand delivered
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
BNSF Project Name: Skykomish
BNSF Contact: Bruce Sherwood
Project State of Origin: WA
Project City: Skykomish
BNSF Work Order No.: TQ00202

CONSULTANT INFORMATION

Company: ENSR
Address: 1011 SW Klickitat Way Ste 202
City/State/ZIP: Seattle WA 98134
Project Number: 01143204-0340
Project Manager: Steve Howard
Email: showard@ensr.aecom.com
Phone: (206) 624-9349
Fax: (206) 624-7822

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 5- to 8-day Rush
- [ ] 2-day Rush
- [x] Standard 10-Day
- [ ] 3-day Rush
- [ ] Other

DELIVERABLES

- [x] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [x] EDD Req, Format? Excel

SAMPLE INFORMATION / METHODS FOR ANALYSIS

	Sample identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	NWTPH-Dx w/o SGCU	NWTPH-Dx w/ SGCU	Method 8270 PIC						COMMENTS	LAB USE
1	1B-W-3-0707	2	7/31/07	0930	AJ	N		W	X									
2*	1C-W-1-	2		1040					X	(see note below)								
3	1C-W-3-	2		1130					X									
4*	1C-W-4-	2		1210					X	(see note below)								
5	1B-W-2-	2		1415					X									
6	1A-W-1-	6		1525					X	X	X							
7	2A-W-1-	2		1617					X									
8	2A-W-100-	2		1545					X									
9	1A-W-2-	2		1752					X									
10	1A-W-30-	2		1700					X									
11	1A-W-4-	6		1610	CS				X								Extra Sample Volume Include	
12	1A-W-5-	2		1505					X									
13	MW-27-	2		1605					X									
14	2B-W-4-	2		1700					X									
15	2A-W-77-	2		1600	MW				X									

Relinquished By:	Date/Time:	Received By:	Date/Time:
(ENSR)	8/1/07 14:50		8/1/07 14:50
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Received by Laboratory:	Date/Time	Lab Remarks:	Lab: Custody Intact? [ ] Yes [ ] No

Comments and Special Analytical Requirements:
*1C-W-1 & 1C-W-4 Samples: please run NWTPH-Dx w/SGCU after confirming NWTPH-Dx w/o SGCU analysis is complete.

Custody Seal No.:
BNSF COC No.:

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES
DUPLICATE - CONSULTANT
Rev 10/02/05

RETEC

Fluid Level Gauging Form

Project Name: BNSF Skykomish

Project Number: BN050-16423-711

Collected by: Cassie Smith

	Well Number	Date 2007	Time	Total Casing Depth	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness	Method	2/16/2006 DTW (ft)	2/16/2006 Prod. Thick. (ft)	11/27/2006 DTW (ft)	11/27/2006 Prod. Thick. (ft)	Sign Off	Comments
n	1A-W-1	7/30	1050		14.53	—			11.94		12.67			
n	1A-W-4	7/30	1102		9.16	—			6.86		8.03			
n	1A-W-5	7/30	1110		10.07				7.66		8.3			
n	1B-W-3	7/30	1129		14.91				10.46		11.79			
n	1B-W-2	7/30	1137		13.55				12.16		13.38			
n	1C-W-1	7/30	1153		13.20				10.49		11.87			
n	1C-W-2	7/30	1217		10.27				7.49		8.66			
n	1C-W-3	7/30	1159		10.93				8.72		9.88			
n	1C-W-4	7/30	1204		10.28				8.42		9.30			
n	2A-W-6	7/30	1224		11.90				9.30		10.18			
s	2A-W-8								12.18		13.50			
s	2A-W-9								7.38		7.87			
s	2A-W-10								7.79		8.41			
s	2B-W-4								0.80		1.52			
n	5-W-4								4.03		4.93			
n	5-W-13				NI				NI					
n	5-W-14	7/30	1247		9.44				NI					
n	5-W-15								NI					
n	5-W-16	7/30	1238		8.27				NI					

PAGE 2

RETEC

	Well Number	Date 2007	Time	Total Casing Depth	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness	Method	2/16/2006 DTW (ft)	2/16/2006 Prod. Thick. (ft)	11/27/2006 DTW (ft)	11/27/2006 Prod. Thick. (ft)	Sign Off	Comments
n	5-W-17	7/30	1303		7.60				NI					
n	5-W-18	7/30	1314		7.78				NI					
n	5-W-19	7/30	1320		7.72				NI					
n	5-W-20	7/30	1326		7.32				NI					
s	MW-1								10.29		11.21			
s	MW-2								9.38		8.57			
s	MW-3								6.80		7.93			
s	MW-4								6.62		7.32			
s	MW-12								3.03		3.85			
s	MW-14			13.5					9.59		10.18			
s	MW-16								12.75		13.65			
s	MW-18								12.55		12.98			
s	MW-19								9.32		10.31			
n	MW-26								6.12		6.95			
n	MW-32								8.10		8.69			
n	MW-34								9.37		10.38			
n	MW-35								10.30		11.01			
s	MW-37								7.05		7.75			
s	MW-38								NM		NM			Well Damaged

Dry (DS)

RETEC

RETEC

Fluid Level Gauging Form

Project Name: BNSF Skykomish

Project Number: BN050-16423-711

Collected by: Dean Kinney

	Well Number	Date	Time	Total Casing Depth	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness	Method	2/16/2006 DTW (ft)	2/16/2006 Prod. Thick. (ft)	11/27/2006 DTW (ft)	11/27/2006 Prod. Thick. (ft)	Sign Off	Comments
n	1A-W-1								11.94		12.67			
n	1A-W-4								6.86		8.03			
n	1A-W-5								7.66		8.3			
n	1B-W-2								10.46		11.79			
n	1B-W-3								12.16		13.38			
n	1C-W-1								10.49		11.87			
n	1C-W-2								7.49		8.66			
n	1C-W-3								8.72		9.88			
n	1C-W-4								8.42		9.30			
n	2A-W-6								9.30		10.18			
s	2A-W-8	7/30/07	0915		15.82				12.18		13.50		DWK	
s	2A-W-9		1142		10.99				7.38		7.87		DWK	
s	2A-W-10		1153		11.51				7.79		8.41		DWK	
s	2B-W-4		0953		4.02				0.80		1.52		DWK	
n	5-W-4		1726		6.75				4.03		4.93		DWK	
n	5-W-13		—	—	NT	—	—	—	NI					
n	5-W-14								NI					
n	5-W-15		1230		8.02				NI					
n	5-W-16		~~1230~~						NI					

RETEC

	Well Number	Date	Time	Total Casing Depth	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness	Method	2/16/2006 DTW (ft)	2/16/2006 Prod. Thick. (ft)	11/27/2006 DTW (ft)	11/27/2006 Prod. Thick. (ft)	Sign Off	Comments
n	5-W-17								NI					
n	5-W-18								NI					
n	5-W-19								NI					
n	5-W-20								NI					
s	MW-1	7/30/07	0910		13.25				10.29		11.21		DWK	
s	MW-2		0922		12.93				9.38		8.57		DWK	
s	MW-3		0926		11.32				6.80		7.93		DWK	
s	MW-4		0930		10.28				6.62		7.32		DWK	
s	MW-12		1124		6.90				3.03		3.85		DWK	
s	MW-14		0936	13.5	12.87				9.59		10.18		DWK	
s	MW-16		0958		15.62				12.75		13.65		DWK	
s	MW-18		0941		15.49				12.55		12.98		DWK	
s	MW-19		1003		12.22				9.32		10.31		DWK	
n	MW-26		1219		9.58				6.12		6.95		DWK	
n	MW-32		1023		9.48				8.10		8.69		DWK	
n	MW-34		1038		11.60				9.37		10.38		DWK	
n	MW-35		1043		12.94				10.30		11.01		DWK	
s	MW-37	7/30/07	1032		10.31				7.05		7.75		DWK	
s	MW-38		1011	19.6	5.25				NM		NM		DWK	Well Damaged & Repaired
	~~ZA~~W-22		1212		10.60				NI				DWK	Resurveyed ?

RETEC

RETEC

Well Number	Date	Time	Total Casing Depth	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness	Method	2/16/2006 DTW (ft)	2/16/2006 Prod. Thick. (ft)	11/27/2006 DTW (ft)	11/27/2006 Prod. Thick. (ft)	Sign Off	Comments
1A-W-3	7/30/07	11 04						6.27	none	9.44	hvy trace		*9.0 - 0.16 no product
1B-W-1	7/30/07	11:20						8.70	none	7.60	trace		*12.5 - .61 HEAVY TRACE
2A-W-1	7/30/07	11:14						8.10	none	8.70	trace		*12 - .49 TRACE PRODUCT
2A-W-3	7/30/07	11:33						8.38	none	11.49			*12.5 - .66 HEAVY TRACE
2A-W-11	7/30/07	11:48						5.14	trace	5.79	hvy trace		*10.1 - .41 HEAVY TRACE
MW-~~27~~21 (4)	7/30/07	12:38						9.64	none	9.66			★ 16 - 1.1 * 16.0 - 0.48
MW-28	7/30/07	1224						11.86	none	12.14			*16.0 - 1.0 no product
MW-39	7/30/07	1207						6.80	none	7.36			*11.0 - 0.88 no product
1A-W-2	7/30/07	0935						9.11	0.01	10.10	0.09		*14.3 - 1.43 *14.0 - 0.76
2A-W-4	7/30/07	1400						8.82	0.11	9.20	trace		*13 - 1.0 * 13.0 - 0.72
5-W-1	7/30/07	1044		8.40				5.12	none	6.19	trace		*9.0 - 0.6 trace
5-W-2	7/30/07	1025						4.75	trace	6.28	trace		*8.0 - 0.41 Heavy trace
5-W-3	7/30/07	1034						4.77	trace	6.18	hvy trace		*8.0 - 0.51 no product
MW-~~24~~27 (4)	7/30/07	1318						12.06	hvy trace	12.79	hvy trace		*15.0 - 1.81 no product
MW-22	7/30/07	1015						5.85	hvy trace	8.03	0.77		★ 10.0' - 1.8' *9 - .40'
MW-36	7/30/07	1050						5.09	hvy trace	6.18	hvy trace		*9.0 - 0.7 heavy trace

★ = DTP

* = DTW

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RETEC

River Gauging Form

Project Name: BNSF Skykomish

Project Number: BN050-16423-711

Measured by: Adam Jambrosic / Pete Kenney / Cassie Smith / Fred Muriel

stake ID	date	time	backsight	foresight	water level	comments
SK-1	7/30/07	16:41	~~7.03~~ 2.91	14.30		back side 3.39
SK-2		15:50	3.03	21.12		
SK-3		15:18	7.03	15.96		
SK-4		15:23	7.03	16.48		
SK-5		15:31	7.03	18.15		
ML-1		—	—	—	Dry	
ML-2		—	—	—		
ML-3		—	—	—		
ML-4		—	—	—		

stake ID: SK# = Skykomish River gauging locations, ML# = Former Maloney Creek channel gauging locations
all measurements in feet
backsight: height of level above surveyed point (staff placed at PK nail)
foresight: height of level above gauging point (staff placed in stream bed at SKx, MLx)
water level: depth of water at gauging point

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-3
Project No.	BN050-16423-710	Sampled By	DWC
Date	7/31/07	weather	Clear, 60 °F

WELL INFORMATION		
Depth to water	11.32	(ft)
Depth of well:	–	(ft)
Well diameter:	2	(in)
Feet of water:	–	(ft)
Product thickness:	–	(ft)
Screen interval:	–	
well condition:	OK	

COMMENTS
Tubing inlet at ~12.25'
Sediment pumped up into
flow cell, turbidity
was over range

PURGE DATA								
start purge time	1107							
time		1117	1120	1123				
volume purged	(gal)							
purge rate	(L/min)	0.30	→	→				
pH	(Units)	5.71	5.72	5.72				
conductivity S/m	(~~umhos/cm~~)	0.09	0.08	0.10				
temperature	(deg C)	9.8	9.9	9.9				
D.O.	(mg/L)	3.04	3.05	3.01				
ORP	(mv)	15	12	11				
turbidity	(NTU)	OR	OR	OR				
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-3-0707	1125	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-4
Project No.	BN050-16423-710	Sampled By	DMK
Date	7/31/07	weather	Clear, 60 °F

WELL INFORMATION		
Depth to water	10.28	(ft)
Depth of well:	—	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	—	(ft)
Screen interval:	—	
well condition:	ok	

COMMENTS
Tubing Inlet at ~11.25'

PURGE DATA								
start purge time	1024							
time		1034	1037	1040	1043	1046		
volume purged	(gal)							
purge rate	(L/min)	0.30	→	→	→	→		
pH	(Units)	5.52	5.52	5.38	5.40	5.44		
conductivity S/m	(~~umhos/cm~~)	0.10	0.09	0.09	0.09	0.09		
temperature	(deg C)	9.3	9.3	9.8	10.0	10.1		
D.O.	(mg/L)	4.90	4.30	4.10	3.98	3.75		
ORP	(mv)	85	79	66	62	60		
turbidity	(NTU)	2.8	2.6	2.8	2.7	2.5		
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-4-0707	1050	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-16
Project No.	BN050-16423-710	Sampled By	DWL
Date	7/31/07	weather	Clear, 55 °F

WELL INFORMATION		
Depth to water	15.62	(ft)
Depth of well:	–	(ft)
Well diameter:	2	(in)
Feet of water:	–	(ft)
Product thickness:	–	(ft)
Screen interval:	–	
well condition:	ok	

COMMENTS
Duplicate sample collected
Tubing inlet @ ~ 16.5'

PURGE DATA								
start purge time	0814							
time		0824	0827	0830				
volume purged	(gal)	–	–	–				
purge rate	(L/min)	0.20	→	→				
pH	(Units)	5.44	5.43	5.4				
conductivity	(mS/m) ~~(umhos/cm)~~	8.3	8.0	8.1				
temperature	(deg C)	10.0	9.8	9.7				
D.O.	(mg/L)	9.1	9.5	9.6				
ORP	(mv)	183	181	180				
turbidity	(NTU)	0.10	0.12	0.15				
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-16-0707	0835	NWTPH-Dx	1L Gl. Amber	2	HCl
MW-160-0707	0845	"	"	"	"

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-19
Project No.	BN050-16423-710	Sampled By	CS
Date	7/31/07	weather	Sunny, 51 °F

WELL INFORMATION		
Depth to water	12.25	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:	good	

COMMENTS
Tubing Inlet ~13.2'

PURGE DATA								
start purge time	0827							
time		0837	0840	0843				
DIW ~~volume purged~~	~~(gal) ft.~~	~~12.20~~	12.26					
purge rate	(mL/min)	250	250	250				
pH	(Units)	5.50	5.45	5.45				
conductivity	(umhos/cm)	0.095	0.095	0.093				
temperature	(deg C)	8.96	9.02	8.95				
D.O.	(mg/L)	4.04	4.00	4.03				
ORP	(mv)	237	240	239				
turbidity	(NTU)	0.14	0.31	0.20				
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-19-0707	0850	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-34
Project No.	BN050-16423-710	Sampled By	CS
Date	7/31/07	weather	Sunny 53 °F

WELL INFORMATION		
Depth to water	11.61	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:	good	

COMMENTS
Tubing Inlet (ft.) - ~12.5

PURGE DATA											
start purge time	1023										
time		1033	1036	1039	1042	1045	1048	1051	1054		
DTW ~~volume purged~~	~~(gal)~~ ft.	11.66	11.66	N.M.	11.66	N.M.	N.M.		11.67		
purge rate	(mL/min)	325	325	325	325	325	325	325	325		
pH	(Units)	6.34	6.17	6.15	6.16	6.20	6.21	6.23	6.27		
conductivity	(umhos/cm)	0.165	0.155	0.146	0.146	0.139	0.137	0.136	0.131		
temperature	(deg C)	8.89	8.94	8.85	8.86	8.94	8.94	8.89	8.90		
1048 1.73 D.O.	(mg/L)	0.60	0.92	1.30	1.41	1.55	1.87	1.90	1.90		
ORP	(mv)	9	19	33	38	44	51	56	58		
turbidity	(NTU)	4.69	4.40	3.31	2.64	1.70	1.47	0.97	0.99		
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing									

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-34-0707	1100	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-35
Project No.	BN050-16423-710	Sampled By	CS
Date	7/31/07	weather	53°F ~~[illegible]~~ (CS) Sunny

WELL INFORMATION	
Depth to water	12.98 (ft)
Depth of well:	(ft)
Well diameter:	(in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	

COMMENTS
Tubing Inlet (ft):
~13.9'

PURGE DATA								
start purge time	~~1130~~ 1140 (CS)							
time		1150	1153	1156				
~~volume purged~~	~~(gal)~~ ft	12.98	N.M.	N.M				
purge rate	(L/min)	150	150	150				
pH	(Units)	6.04	6.05	6.05				
conductivity	(umhos/cm)	0.122	0.121	0.121				
temperature	(deg C)	12.27	12.50	12.52				
D.O.	(mg/L)	0.00	0.00	0.00				
ORP	(mv)	-2	-3	-3				
turbidity	(NTU)	6.50	5.80	7.85				
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-35-0707	1200	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-37
Project No.	BN050-16423-710	Sampled By	CS
Date	7/31/07	weather	Sunny 58 °F

WELL INFORMATION		
Depth to water	10.35	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
Tubing Inlet (ft) -
~ 11.3'

PURGE DATA								
start purge time	~~1529~~ 1534 (CS)		(CS) 1550					
time		1544	1547	~~1000~~				
DTW ~~volume purged~~	~~(gal)~~ (ft.)	10.35	10.35	N.M				
purge rate	(L/min)	400	400	400				
pH	(Units)	5.83	5.73	5.71				
conductivity	(umhos/cm)	0.089	0.089	0.088				
temperature	(deg C)	9.09	9.20	9.32				
D.O.	(mg/L)	0.00	0.00	0.00				
ORP	(mv)	-39	-40	-43				
turbidity	(NTU)	1.13	0.64	0.46				
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-37-0707	1605	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-38
Project No.	BN050-16423-710	Sampled By	DWK
Date	7/31/07	weather	Clear, 75 °F

WELL INFORMATION		
Depth to water	5.25	(ft)
Depth of well:	—	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	—	(ft)
Screen interval:	—	
well condition:	ok	
	—	

COMMENTS
Tubing Inlet at ~ 6.25'

PURGE DATA								
start purge time	1341							
time		1351	1354	1357	1400			
volume purged	(gal)							
purge rate	(L/min)	0.30	→	→	→			
pH	(Units)	5.68	5.59	5.58	5.59			
conductivity mS/cm	~~(umhos/cm)~~	5.8	5.8	5.8	5.8			
temperature	(deg C)	11.4	11.8	11.6	11.5			
D.O.	(mg/L)	7.34	7.27	7.28	7.38			
ORP	(mv)	72	78	82	86			
turbidity	(NTU)	2.5	2.2	2.1	2.3			
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-38-0707	1410	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-39
Project No.	BN050-16423-710	Sampled By	DWK
Date	7/31/09	weather	Clear, 75°F

WELL INFORMATION		
Depth to water	10.12	(ft)
Depth of well:	—	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	—	
well condition:	ok	

COMMENTS
Tubing inlet at ~ 11'

PURGE DATA								
start purge time	1427							
time			Product in discharge					
volume purged	(gal)							
purge rate	(L/min)							
pH	(Units)		line – no parameters					
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-39-0707	1440	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1A-W-1
Project No.	BN050-16423-710	Sampled By	AJ / FM
Date	07/31/07	weather	sunny 80 °F

WELL INFORMATION		
Depth to water	14.56	(ft)
Depth of well:		(ft)
Well diameter:	2	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:	GOOD	

COMMENTS
tubing inlet ~ 15.56
1450 orange iron flock present in discharge
1455 iron flock clears

PURGE DATA

start purge time	1450								
time		1505	1508	1511	1514	1517	1520	1523	
volume purged	(gal)								
purge rate	(L/min)	140	140	140	140	140	140	140	
pH	(Units)	6.116	6.14	6.14	6.12	6.10	6.10	6.10	
conductivity	(umhos/cm)	0.22	0.114	0.113	0.111	0.111	0.110	0.110	
temperature	(deg C)	15.1	15.3	15.0	15.0	15.1	15.0	14.9	
D.O.	(mg/L)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
ORP	(mv)	-6	2	5	7	10	11	11	
turbidity	(NTU)	5.69	2.91	2.30	1.63	1.20	1.16	1.11	
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing							
DTW (ft bgs TOC)		14.59	14.59	14.59	14.59				

SAMPLE INFORMATION

sample number	time	analysis	container	# bottles	preservative
1A-W-1-0707	1525	NWTPH-Dx	1L Gl. Amber	4	HCl
		BTEX	1L Gl Amber	2	none

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1A-W-3
Project No.	BN050-16423-710	Sampled By	FM
Date		weather	~79° Sunny °F

WELL INFORMATION		
Depth to water	8.90	(ft)
Depth of well:		(ft)
Well diameter:	2 in	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:	good	

COMMENTS
Duplicate Sample collected

PURGE DATA								
start purge time	1722							
time		1732	1735	1738	1741	1744	1747	1750
volume purged	(gal)	~~300~~ gal						
purge rate	~~(L/min)~~ mL/min	300	300	300	300	300	300	300
pH	(Units)	5.89	5.79	5.73	5.68	5.64	5.64	5.64
conductivity	(umhos/cm)	0.077	0.077	0.077	0.079	0.080	0.081	0.082
temperature	(deg C)	12.9	12.9	12.8	12.8	12.8	12.7	12.7
D.O.	(mg/L)	4.27	3.96	3.77	3.61	3.39	3.26	3.12
ORP	(mv)	71	75	80	83	86	86	86
turbidity	(NTU)	2.25	1.31	1.19	1.06	0.92	0.88	1.00
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
1A-W-3-0707	17:52	NWTPH-Dx	1L Gl. Amber	2	HCl
1A-W-30 (Dup) ~0707	17:00				

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1A-W-4
Project No.	BN050-16423-710	Sampled By	CS
Date	7/31/07	weather	Sunny, 58 °F

WELL INFORMATION		
Depth to water	9.24	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:	good	

COMMENTS
Extra volume for Lab QC
Tubing Inlet (ft) ~10'

PURGE DATA								
start purge time	1345							
time		1355	1358	1401				
volume purged	(gal)	9.38	9.35	9.35				
purge rate	(L/min)	400	375	375				
pH	(Units)	5.65	5.60	5.67				
conductivity	(umhos/cm)	0.121	0.119	0.119				
temperature	(deg C)	8.81	9.26	8.87				
D.O.	(mg/L)	7.36	7.19	7.33				
ORP	(mv)	141	148	157				
turbidity	(NTU)	1.21	1.47	N.M.				
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
1A-W-4-0707	1410	NWTPH-Dx	1L Gl. Amber	6	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1A-W-5
Project No.	BN050-16423-710	Sampled By	CS
Date	7/31/07	weather	Sunny 58 °F

WELL INFORMATION	
Depth to water	18.10 (ft)
Depth of well:	(ft)
Well diameter:	(in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	good

COMMENTS
Tubing Inlet (ft) ~11.0'

PURGE DATA								
start purge time	1442							
time		1452	1455	1458				
DTW ~~volume purged~~	~~(gal)~~ ft.	10.11	N.M.	N.M.				
purge rate mL	~~(L/min)~~ (cs)	375	375	375				
pH	(Units)	6.25	6.12	6.11				
conductivity	(umhos/cm)	0.121	0.121	0.120				
temperature	(deg C)	8.41	8.30	8.62				
D.O.	(mg/L)	7.11	7.09	6.97				
ORP	(mv)	158	168	172				
turbidity	(NTU)	3.04	2.96	1.97				
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
1A-W-5-0707	1505	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1B-W-1
Project No.	BN050-16423-710	Sampled By	DWK
Date	7/30/07	weather	Clear, 55°F

WELL INFORMATION		
Depth to water	11.89	(ft)
Depth of well:	–	(ft)
Well diameter:	2	(in)
Feet of water:	–	(ft)
Product thickness:	Heavy Trace	(ft)
Screen interval:	–	
well condition:	ok	

COMMENTS
Tubing inlet at ~ 12.75'

PURGE DATA								
start purge time	0857							
time		0907	~~0911~~					
volume purged	(gal)							
purge rate	(L/min)	Product in discharge						
pH	(Units)							
conductivity	(umhos/cm)	line – no parameters						
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
1B-W-1-07-07	0915	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1B-W-2
Project No.	BN050-16423-710	Sampled By	AJ / FM
Date	07/31/07	weather	sunny ~80 °F

WELL INFORMATION		
Depth to water	13.55	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:	Good	

COMMENTS
tubing inlet 14.55

PURGE DATA										
start purge time	~~1275~~ 1338		1351	1354	1357	1400	1403	1407	1410	1413
time		~~1348~~	~~1352~~	~~1344~~						
volume purged	(gal)									
purge rate	(L/min)	90	90	90	90	90	90	90	90	90
pH	(Units)	6.56	6.56	6.55	6.49	6.45	6.43	6.42	6.43	6.44
conductivity	(umhos/cm)	0.238	0.240	0.234	0.225	0.223	0.223	0.203	0.202	0.202
temperature	(deg C)	15.2	~~0~~ FM 14.7	14.7	14.5	14.4	14.4	14.4	14.0	14.3
D.O.	(mg/L)	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.00	0.00
ORP	(mv)	-98	-97	-94	-84	-76	-73	-72	-74	-76
turbidity	(NTU)	7.37	7.05	10.08	12.17	9.02	5.63	5.37	4.95	4.92
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing								
DTW		14.06	14.15	14.23						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
1B-W-2-0707	~~1413~~ 1415	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1B-W-3
Project No.	BN050-16423-710	Sampled By	AD / PM
Date	07/31/07	weather	sunny ~70 °F

WELL INFORMATION		
Depth to water	14.93	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:	Good	

COMMENTS
tubing inlet 15.93

PURGE DATA

start purge time	0848													
time		0858	0901	0904	0907	0910	0913	0916	0919	0922	0925	0928	0931	0934
volume purged	(gal)													
purge rate	(L/min)	200	200	200	200	200	200	200	200	200	200	200	200	200
pH	(Units)	7.05	7.01	6.87	6.62	6.43	6.37	6.29	6.24	6.21	6.21	6.19	6.19	6.17
conductivity	(umhos/cm)	0.114	0.110	0.106	0.103	0.097	0.096	0.086	.083	.080	.078	.077	.076	0.075
temperature	(deg C)	10.6	10.7	10.7	10.7	10.8	10.8	10.9	10.9	10.9	10.8	10.9	10.8	10.9
D.O.	(mg/L)	0.00	0.00	0.30	0.70	0.99	1.03	1.11	1.18	1.26	1.26	1.28	1.30	1.31
ORP	(mv)	-99	-84	-57	-15	13	27	38	50	59	63	69	73	78
turbidity	(NTU)	24.4	15.66	16.23	8.63	4.41	2.46	2.06	1.17	1.71	1.28	1.03	.32	0.78
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing												
DTW		14.94	14.94	14.94	14.94									

0937	
purge rate	200
pH	6.17
cond	0.074
Temp	10.9
DO	1.40
ORP	80
turbidity	0.77

SAMPLE INFORMATION

sample number	time	analysis	container	# bottles	preservative
1B-W-3-0707	0938	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1C-W-1
Project No.	BN050-16423-710	Sampled By	AJ / FM
Date	07/31/07	weather	Sunny ~ 80 °F

WELL INFORMATION		
Depth to water	13.21	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:	Good	

COMMENTS
tubing inlet 14.21

PURGE DATA								
start purge time	1010							
time		1020	1023	1026	1029	1032	1035	1038
volume purged	(gal)							
purge rate	(L/min)	260	260	260	260	260	260	260
pH	(Units)	5.66	5.67	5.63	5.60	5.60	5.60	5.59
conductivity	(umhos/cm)	0.041	0.041	0.042	0.042	0.041	0.041	0.040
temperature	(deg C)	12.4	12.4	12.5	12.1	12.0	11.9	11.9
D.O.	(mg/L)	1.18	1.09	0.96	0.87	0.63	0.61	0.60
ORP	(mv)	147	148	151	154	156	157	159
turbidity	(NTU)	1.40	1.44	1.48	0.97	0.82	0.87	
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						
DTW	ft bgs	13.23	13.23	13.23	13.23	13.23	13.23	

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
1C-W-1-0707	1040	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1c-W-2
Project No.	BN050-16423-710	Sampled By	DWK
Date	8/1/07	weather	Clear, °F

WELL INFORMATION		
Depth to water	10.36	(ft)
Depth of well:	—	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	—	(ft)
Screen interval:	—	
well condition:	OK	

COMMENTS
Tubing Inlet at ~11.25'

PURGE DATA								
start purge time	1147							
time		1157	1200	1203	1206			
volume purged	(gal)							
purge rate	(L/min)	0.30 →	→	→	→			
pH	(Units)	5.58	5.50	5.46	5.47			
conductivity mS	~~(umhos~~/cm)	0.046	0.045	0.043	0.042			
temperature	(deg C)	12.5	12.5	12.7	12.5			
D.O.	(mg/L)	4.65	4.64	4.64	4.68			
ORP	(mv)	149	162	174	179			
turbidity	(NTU)	1.24	0.77	0.88	0.76			
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
1c-W-2-0707	1210	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	IC-W-3
Project No.	BN050-16423-710	Sampled By	AJ / FM
Date	07/31/07	weather	sunny ~ 80 °F

WELL INFORMATION		
Depth to water	10.95	(ft)
Depth of well:		(ft)
Well diameter:	2	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:	Good	

COMMENTS
tubing inlet 11.95

PURGE DATA

start purge time	1102								
time		1112	1115	11:18	11:21	11:24	11:27	11:30	11:33
volume purged	(gal)								
purge rate	(L/min)	100	100	100	100	100	100		
pH	(Units)	5.76	5.78	5.80	5.79	5.79	5.79		
conductivity	(umhos/cm)	0.043	0.044	0.045	0.045	0.046	0.045		
temperature	(deg C)	13.9	14.0	14.0	13.8	~~16~~ 13.6	13.6		
D.O.	(mg/L)	4.34	4.53	4.55	4.62	4.62	4.52		
ORP	(mv)	184	189	192	195	199	200		
turbidity	(NTU)	9.72	11.62	14.57	8.89	8.71	9.19		
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing							
DTW		11.38	11.38	11.38	11.40	11.42	11.44		

SAMPLE INFORMATION

sample number	time	analysis	container	# bottles	preservative
IC-W-3-0707	1130	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	IC-W-4
Project No.	BN050-16423-710	Sampled By	AJ / FM
Date	07/31/07	weather	sunny ~80 °F

WELL INFORMATION		
Depth to water	10.30	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:	GOOD	

COMMENTS
inlet of tubing 11.30

PURGE DATA								
start purge time	11:52							
time		1202	1205	1208				
volume purged	(gal)							
purge rate	(L/min)	100	100	100				
pH	(Units)	5.68	5.65	5.62				
conductivity	(umhos/cm)	0.057	0.057	0.056				
temperature	(deg C)	11.6	11.4	11.5				
D.O.	(mg/L)	0.00	0.00	0.00				
ORP	(mv)	48	48	48				
turbidity	(NTU)	3.87	3.79	3.58				
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						
DTW		10.45	10.46	10.47				

SAMPLE INFORMATION

sample number	time	analysis	container	# bottles	preservative
IC-W-4-0707	1210	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	2A-W-1
Project No.	BN050-16423-710	Sampled By	AJ / FM
Date	7/31/07	weather	sunny ~80 °F

WELL INFORMATION		
Depth to water	11.57	(ft)
Depth of well:		(ft)
Well diameter:	2	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:	GOOD	

COMMENTS
Duplicate sample collected
tubing inlet 12.57
Trace product blebs of product in discharge

PURGE DATA								
start purge time	1552							
time								
volume purged	(gal)							
purge rate	(L/min)	300						
pH	(Units)							
conductivity	(umhos/cm)		NO PARAMETERS TAKEN					
temperature	(deg C)							
D.O.	(mg/L)		PRODUCT PRESENT					
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
2A-W-1-0707	1602	NWTPH-Dx	1L Gl. Amber	2	HCl
2A-W-100(Dup)-0707	1545				

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	2A-W-6
Project No.	BN050-16423-710	Sampled By	DWK
Date	7/31/07	weather	clear, 80 °F

WELL INFORMATION		
Depth to water	11.90	(ft)
Depth of well:	—	(ft)
Well diameter:	2	(in)
Feet of water:		(ft)
Product thickness:	—	(ft)
Screen interval:	—	
well condition:	ok	

COMMENTS
Tubing inlet at ~12.75'

PURGE DATA								
start purge time	1628							
time		1638	1641	1644	1647	1650		
volume purged	(gal)							
purge rate	(L/min)	0.30	→	→	→	→		
pH	(Units)	5.55	5.51	5.43	5.45	5.45		
conductivity S/m	(~~umhos/cm~~)	0.687	4.85	5.52	5.56	5.54		
temperature	(deg C)	12.3	12.5	12.4	12.5	12.5		
D.O.	(mg/L)	3.77	3.25	3.02	2.95	2.93		
ORP	(mv)	57	55	54	53	51		
turbidity	(NTU)	11	6.7	2.9	2.7	2.6		
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
2A-W-6-0707	1655	NWTPH-Dx w/o Silica	1L Gl. Amber	2	HCl
		" w/SGCn	"	"	"

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	ZA-W-9
Project No.	BN050-16423-710	Sampled By	DWIC
Date	7/31/07	weather	Clear, 60 °F

WELL INFORMATION		
Depth to water	10.99	(ft)
Depth of well:	–	(ft)
Well diameter:	2	(in)
Feet of water:	–	(ft)
Product thickness:	–	(ft)
Screen interval:	–	
well condition:	ok	

COMMENTS
Tubing inlet at ~11'

PURGE DATA								
start purge time	1227							
time		1237	1240	1243				
volume purged	(gal)							
purge rate	(L/min)	0.30	→	→				
pH	(Units)	5.71	5.68	5.67				
conductivity mS/m ~~(umhos/cm)~~		54.9	54.6	52.8				
temperature	(deg C)	12.4	12.3	12.1				
D.O.	(mg/L)	2.75	2.64	2.59				
ORP	(mv)	22	23	23				
turbidity	(NTU)	3.2	3.1	2.9				
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
ZA-W-9-0707	1245	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	2A-W-10
Project No.	BN050-16423-710	Sampled By	DWK
Date	7/31/07	weather	Clear, 60°F

WELL INFORMATION		
Depth to water	11.51	(ft)
Depth of well:	—	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	—	(ft)
Screen interval:	—	
well condition:	ok	

COMMENTS
Tubing inlet at ~12.5'

PURGE DATA								
start purge time	1142							
time		1202	1205	1208	1211			
volume purged	(gal)							
purge rate	(L/min)	0.30 →						
pH	(Units)	5.63	5.65	5.71	5.73			
conductivity mS/cm	(~~umhos/cm~~)	~~20.7~~	7.0	7.1	7.3			
temperature	(deg C)	10.8	11.2	11.3	11.3			
D.O.	(mg/L)	2.64	2.51	2.38	2.29			
ORP	(mv)	56	53	57	56			
turbidity	(NTU)	8.00	7.81	7.64	7.75			
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
2A-W-10-0707	1215	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	ZA-W-11
Project No.	BN050-16423-710	Sampled By	DWK
Date	7/31/07	weather	Clear, 60 °F

WELL INFORMATION		
Depth to water	9.69	(ft)
Depth of well:	–	(ft)
Well diameter:	2	(in)
Feet of water:	–	(ft)
Product thickness:	Heavy Trace	(ft)
Screen interval:	–	
well condition:	ok	

COMMENTS
Tubing Inlet @ ~ 10.5'

PURGE DATA								
start purge time	0951							
time		1001						
volume purged	(gal)							
purge rate	(L/min)	No parameters –						
pH	(Units)							
conductivity	(umhos/cm)	product in discharge line						
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
ZA-W-11-0707	1010	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	2A-W-22
Project No.	BN050-16423-710	Sampled By	DWK
Date	7/31/07	weather	Clear, 80 °F

WELL INFORMATION		
Depth to water	10.60	(ft)
Depth of well:	–	(ft)
Well diameter:	2	(in)
Feet of water:	–	(ft)
Product thickness:	–	(ft)
Screen interval:	–	
well condition:	ok	

COMMENTS
Tubing Inlet at ~ 11.5'

PURGE DATA								
start purge time	1528							
time		1538	1541	1544	1547	1550		
volume purged	(gal)							
purge rate	(L/min)	0.20	→	→	→	→		
pH	(Units)	6.00	5.94	5.97	5.96	5.97		
conductivity mS/m	(~~umhos/cm~~)	10.3	10.3	10.5	10.4	10.3		
temperature	(deg C)	11.6	11.7	11.7	11.9	11.9		
D.O.	(mg/L)	6.71	6.11	6.02	5.93	5.84		
ORP	(mv)	110	114	116	115	113		
turbidity	(NTU)	27	15	15	15	15		
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
2A-W-22-~~0707~~	1600	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	2B-W-4
Project No.	BN050-16423-710	Sampled By	CS
Date	7/31/07	weather	65°F Sunny

WELL INFORMATION		
Depth to water	12.54	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
Tubing Inlet (ft): ~13.5'
* DTW - ~~[illegible]~~ inaccurate meter false. After purging 7min Read ~~4.5~~ 4.15, Pulled up Tubing to ~5.0'

PURGE DATA										
start purge time	1622									
time		1632	1635	1638	1641	1644	1647			
* DTW ~~volume purged~~	~~(gal)~~ 4									
purge rate	(L/min)	300	300	300	300	300	300			
pH	(Units)	5.87	5.96	5.98	5.99	5.99	6.00			
conductivity	(umhos/cm)	0.057	0.062	0.064	0.065	0.065	0.065			
temperature	(deg C)	12.85	11.27	11.19	11.19	11.11	10.61			
D.O.	(mg/L)	2.33	2.57	0.84	0.50	.47	.45			
ORP	(mv)	47	59	65	73	78	82			
turbidity	(NTU)	7.29	N.M.	2.22	1.32	0.54	0.41			
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing								

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
2B-W-4-0707	1700	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	5-W-4
Project No.	BN050-16423-710	Sampled By	CS
Date	7/31/07	weather	Sunny 51 °F

WELL INFORMATION	
Depth to water	6.79 (ft)
Depth of well:	(ft)
Well diameter:	(in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	good

COMMENTS
Tubing Inlet Depth ~7.5'

PURGE DATA

start purge time	0911								
time		0921	0924	0927	0930	0933	0936	0939	0942
~~volume purged~~ ~~(gal)~~ ft.		6.81	6.81					6.82	
purge rate	(L/min)	325	325	325	325	325	325	325	325
pH	(Units)	5.87	5.86	5.86	5.86	5.88	5.87	5.87	5.88
conductivity	(umhos/cm)	0.085	0.085	0.086	0.085	0.085	0.085	0.085	0.085
temperature	(deg C)	~~0.834~~	~~20.5~~	12.31	12.32	12.43	12.41	12.44	12.56
D.O.	(mg/L)	0.18	0.18	0.14	0.14	0.10	0.08	0.07	0.08
ORP	(mv)	30	25	20	16	13	14	11	10
turbidity	(NTU)	0.67	0.60	0.54	0.68	0.27	0.58	N.M.	0.25
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing							

CS

~~W~~

0921 12.24

0924 12.40

SAMPLE INFORMATION

sample number	time	analysis	container	# bottles	preservative
5-W-4-0707	0950	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	S-W-13
Project No.	BN050-16423-710	Sampled By	DWK
Date	7/30/07	weather	°F

WELL INFORMATION	
Depth to water	(ft)
Depth of well:	(ft)
Well diameter:	(in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	

COMMENTS

PURGE DATA								
start purge time								
time								
volume purged	(gal)		Well Not					
purge rate	(L/min)							
pH	(Units)		Installed					
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
S-W-13-0707	Well	NWTPH-Dx	1L Gl. Amber	2	HCl
	Not				
	Installed				

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	S-W-14
Project No.	BN050-16423-710	Sampled By	CS
Date	8/1/07	weather	Sunny 60 °F

WELL INFORMATION	
Depth to water	9.57 (ft)
Depth of well:	(ft)
Well diameter:	(in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	good

COMMENTS
Tubing Inlet (ft.) ~10.5'

PURGE DATA								
start purge time	0814							
time		0830	0833	0836	0839			
DIW ~~volume purged~~	(gal) ft.	9.57	N.M.	N.M.	N.M.			
purge rate	(L/min)	300	300	300	300			
pH	(Units)	6.03	6.12	6.19	6.25			
conductivity	(umhos/cm)	0.119	0.118	0.118	0.118			
temperature	(deg C)	8.09	8.11	8.12	8.00			
D.O.	(mg/L)	6.34	6.28	6.28	6.36			
ORP	(mv)	207	204	201	200			
turbidity	(NTU)	0.77	0.48	0.30	0.57			
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
CS ~~S-W-14-0807~~	0845	NWTPH-Dx W/SGCU	1L Gl. Amber	2	HCl
S-W-14-0707		" W/SGCU	"	"	"
"		method 8270 TIC	"	"	None

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	S-W-15
Project No.	BN050-16423-710	Sampled By	CS
Date	8/1/07	weather	70°F Sunny *

WELL INFORMATION	
Depth to water	8.11 (ft)
Depth of well:	(ft)
Well diameter:	(in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	

COMMENTS
Tubing Inlet (ft.)
~9.0'
* Very turbid Suddenly,
Purged for a while
longer. - Iron orange color
0942 - 802 NTU
0945 - 804 NTU
0947 - 154 NTU

PURGE DATA

start purge time	0929									
time		0939	* 0949	0952	0955	0958	1001	⑥ * 1006	1009	1012
D.W. ~~volume purged~~	~~(gal)~~ ft	8.16	8.16	N.M.						
purge rate	(L/min)	400	400	400	400	400	400	400	400	
pH	(Units)	6.52	6.61	6.62	6.64	6.65	6.65	6.65	6.65	6.64
conductivity	(umhos/cm)	0.160	0.158	0.157	0.157	0.158	0.158	0.158	0.157	0.157
temperature	(deg C)	8.80	8.74	8.82	9.06	8.82	8.91	8.89	8.94	8.00 ⑤
D.O.	(mg/L)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.96
ORP	(mv)	7	50	52	58	65	63	63	62	60
turbidity	(NTU)	40.2 *	33.9	10.30	17.30	46.7	103	17.8	6.36	12.58
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing								

SAMPLE INFORMATION

sample number	time	analysis	container	# bottles	preservative
S-W-15-0707	1020	NWTPH-Dx w/SGCU	1L Gl. Amber	2	HCl
		" w/SGCU	↓	↓	"
		Method 8270 TIC			None

* - Got turbid again w/ Same orange fraction; let Purge
1004 - Started clearing → 69.4 NTU

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	S-W-16
Project No.	BN050-16423-710	Sampled By	CS
Date	8/1/07	weather	80 °F Sunny

WELL INFORMATION	
Depth to water	8.34 (ft)
Depth of well:	(ft)
Well diameter:	(in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	

COMMENTS
tubing inlet (ft.) ~9.3+

PURGE DATA								
start purge time	1212							
time		1222	1225	1228	1231			
~~volume purged~~	~~(gal)~~ ft.	8.34						
purge rate	(L/min)	450	450	450	450			
pH	(Units)	7.26	7.41	7.49	7.56			
conductivity	(umhos/cm)	0.072	0.069	0.069	0.069			
temperature	(deg C)	15.13	15.10	15.06	8.93 (C)			
D.O.	(mg/L)	8.77	8.95	8.93	15.03			
ORP	(mv)	173	172	171	171			
turbidity	(NTU)	9.39	1.43	5.57	1.43			
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
S-W-16-0707	1245	NWTPH-Dx w/ SGCU	1L Gl. Amber	2	HCl
		" w/SGCU	↓	↓	"
		Method 8270 TIC			None

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	5-W-A
Project No.	BN050-16423-710	Sampled By	CS
Date	8/1/07	weather	75°F Sunny

WELL INFORMATION	
Depth to water 7.69	(ft)
Depth of well:	(ft)
Well diameter:	(in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	

COMMENTS
Tubing Inlet (ft) ~ 8.71

PURGE DATA								
start purge time	(CS) ~~1205~~	1114						
time		1128	1131	1134	1137	1140	1143	
~~volume purged~~	~~(gal)~~ (ft)	7.69	N.M.	—	—	—	—	—
purge rate	(L/min)	450	450	450	450	450	450	
pH	(Units)	6.30	6.26	6.21	6.19	6.19	6.19	
conductivity	(umhos/cm)	0.121	0.119	0.117	0.115	0.114	0.112	
temperature	(deg C)	8.92	8.85	8.66	8.67	8.76	8.76	
D.O.	(mg/L)	5.62	5.73	5.77	5.74	5.71	5.70	
ORP	(mv)	175	180	187	191	194	196	
turbidity	(NTU)	5.81	3.04	11.95	2.43	3.80	2.59	
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
5-W-A-0707	1150	NWTPH-Dx w/SGCU	1L Gl. Amber	2	HCl
		" w/SGCU	↓	↓	"
		Method 8270 TIC			None

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	5-W-18
Project No.	BN050-16423-710	Sampled By	DWK
Date	8/1/07	weather	Clear, 60 °F

WELL INFORMATION		
Depth to water	7.85	(ft)
Depth of well:	—	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	—	(ft)
Screen interval:	—	
well condition:	Ok	

COMMENTS
Tubing inlet at ~8.75'

PURGE DATA								
start purge time	0839							
time		0849	0852	0855	0858	0901	0904	
volume purged	(gal)							
purge rate	(L/min)	0.30	→	→	→	→	→	
pH	(Units)	6.08	6.11	6.14	6.20	6.23	6.26	
conductivity mS	(~~umhos~~/cm)	0.127	0.127	0.127	0.128	0.128	0.128	
temperature	(deg C)	12.2	12.3	12.2	12.3	12.3	12.4	
D.O.	(mg/L)	0.0	0.00	0.00	0.00	0.00	0.00	
ORP	(mv)	45	42	34	30	29	27	
turbidity	(NTU)	3.26	3.02	4.37	4.25	4.16	4.07	
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
5-W-18-0707	0910	NWTPH-Dx w/ SGCU	1L Gl. Amber	2	HCl
		" w/SGCU	↓	↓	"
		method 8270 TIC			None

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	S-W-19
Project No.	BN050-16423-710	Sampled By	DWG
Date	8/1/07	weather	Clear, 65°F

WELL INFORMATION		
Depth to water	7.76	(ft)
Depth of well:	–	(ft)
Well diameter:	2	(in)
Feet of water:	–	(ft)
Product thickness:	–	(ft)
Screen interval:	–	
well condition:	ok.	

COMMENTS
Tubing inlet at ~8.75'
~~Duplicate sample~~
~~Collected~~

PURGE DATA								
start purge time	0940							
time		0950	0953	0956				
volume purged	(gal)							
purge rate	(L/min)	0.30	→	→				
pH	(Units)	6.35	6.34	6.33				
conductivity mS	(~~umhos~~/cm)	0.051	0.050	0.049				
temperature	(deg C)	11.7	11.7	11.7				
D.O.	(mg/L)	5.96	5.91	5.82				
ORP	(mv)	107	114	117				
turbidity	(NTU)	0.89	0.93	1.01				
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
S-W-19-0707	1000	NWTPH-Dx w/ SGCU	1L Gl. Amber	2	HCl
~~S-W-19D-0707~~	1015	" w/SGCU	↓	↓	"
		method 8270 TIC			None

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	S-W-20
Project No.	BN050-16423-710	Sampled By	DWK
Date	8/1/07	weather	Clear, 70 °F

WELL INFORMATION		
Depth to water	7.39	(ft)
Depth of well:	—	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	—	(ft)
Screen interval:	—	
well condition:	ok	

COMMENTS
Tubing inlet at ~8.25'

PURGE DATA								
start purge time	1051							
time		1101	1104	1107	1110	1113		
volume purged	(gal)							
purge rate	(L/min)	0.30	→	→	→	→		
pH	(Units)	6.24	6.19	6.13	6.13	6.11		
conductivity mS	(~~umhos~~/cm)	0.107	0.108	0.108	0.108	0.107		
temperature	(deg C)	13.6	13.4	13.5	13.4			
D.O.	(mg/L)	1.09	0.86	0.45	0.44	0.40		
ORP	(mv)	38	35	35	34	33		
turbidity	(NTU)	13.48	5.78	3.28	3.59	3.22		
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
S-W-20-0707	1115	NWTPH-Dx w/ SGCU	1L Gl. Amber	2	HCl
		" w/SGCU	↓	↓	"
		Method 8270 TIC	↓	↓	None

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	Equipment Blank
Project No.	BN050-16423-710	Sampled By	DWK
Date	7/31/07	weather	Clear, 75°F

WELL INFORMATION	
Depth to water	(ft)
Depth of well:	(ft)
Well diameter:	(in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	

COMMENTS

PURGE DATA								
start purge time								
time								
volume purged	(gal)							
purge rate	(L/min)							
pH	(Units)							
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic Pump & Silicone/Polyethylene Tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-SOU-070731	1500	NWTPH-Dx	1L Gl. Amber	2	HCl