

ExxonMobil Pipeline Company

**SCAT Area Transition Report for
B30**

Silvertip Pipeline Incident
Laurel, Montana

October 28, 2011



SCAT Area Transition Report for B30

Silvertip Pipeline Incident
Laurel, Montana

Prepared for:
ExxonMobil Pipeline Company

Prepared by:
ARCADIS G&M of North Carolina, Inc.
11000 Regency Parkway
West Tower, Suite 205
Cary, North Carolina 27518-8518
Tel 919.469.1952
Fax 919.469.5676

Our Ref.:
B0085883.1103

Date:
October 28, 2011

The observations described in this Report were made exclusively under the conditions at the time and subject to the limitations stated therein. It is understood by Client that ARCADIS has relied on the accuracy of documents, oral information, and other material and information provided by sources documented in this report, including but not limited to information provided by Client and Client's other contractors. ARCADIS has not independently verified any such information. The conclusions presented in the Report are based solely upon the observations and representations made by others.

1. Executive Summary of Oil Removal Activities	1
1.1 Land Ownership and Access Issues	1
1.2 Cultural, Historic, and Natural Resource Constraints	1
1.3 Summary of Environmental Sampling	1
1.4 Summary of Initial SCAT Surveys	2
1.5 Applicable Compiled Treatment Recommendations	2
1.6 Oil Removal Activities	2
1.7 Pre-Inspection Survey Transmittal	2
1.8 Post-Inspection Survey Transmittal	3
1.9 Summary of Final SCAT Surveys	3
1.10 SCAT Area Conclusions	3
2. Transition Sign-Off Form	4
Tables	
Table 1 Environmental Sampling Summary	2
Figures	
Figure 1 Aerial Map with Parcel Boundaries	
Figure 2 Wildlife Resources	
Figure 3 Sample Location Map	
Figure 4 Maximum SCAT Observations	
Figure 5 Final SCAT Observations	
Appendices	
A Sample Detection Summary	
B Initial SCAT Survey Forms and Sketches	
C Pre-Inspection Survey Transmittal	
D Post-Inspection Survey Transmittal	
E Final SCAT Survey Forms and Sketches	
F Completed SCAT Segment Sign-Off Forms	

1. Executive Summary of Oil Removal Activities

This Shoreline Cleanup Assessment Technique (SCAT) Area Transition Report provides a summary of the SCAT surveys conducted to determine the extent of oiling along the riverbanks and floodplain within SCAT Area B30, as well as the oil remediation activities completed in this area based on the SCAT Team recommendations. This report also summarizes the environmental samples collected in SCAT Area B30. This report is intended to be read and used in conjunction with the Summary of Assessment and Oil Removal Activities report.

1.1 Land Ownership and Access Issues

Figure 1 provides an aerial map of SCAT Area B30, along with the (a) SCAT Area boundary, (b) parcel boundaries and respective property owners, and (c) access constraints identified during the oil cleanup process. The acreage surveyed in Area B30 is 40. There were access issues for the left and right bank.

1.2 Cultural, Historic, and Natural Resource Constraints

No historic properties or cultural resources have been identified within this area that would affect oil removal activities.

Figure 2 summarizes the natural resources identified in this segment. International Bird Rescue and Resource Advisors from U.S. Fish and Wildlife Service conducted regular inspections of Area B30. No oiled wildlife was observed or recovered. No Wildlife Priority Cleanup Areas were identified. A portion of a bald eagle (*Haliaeetus leucocephalus*) nesting buffer zone extends into Area B30 and was provided to Operations.

1.3 Summary of Environmental Sampling

Table 1 (below) summarizes samples collected within Area B30. The analytical results for the samples collected can be accessed through a publicly accessible database on the United States Environmental Protection Agency's (USEPA's) website. The approximate locations of samples collected within Area B30 are provided on Figure 3.

Table 1 Environmental Sampling Summary

Area	Agency	Sample Num	Date	Matrix	Location	Latitude	Longitude
B30		No Samples Collected*					

Appendix A contains a summary of sample results with detections for this sample set. Detections with a result above the screening level are highlighted; for this set, there were no samples collected.

1.4 Summary of Initial SCAT Surveys

The SCAT teams used systematic evaluation criteria and treatment method tables approved by the National Oceanic and Atmospheric Administration to provide a standard approach for data collection and conducting field surveys. The forms and sketches from the initial SCAT surveys performed along the river bank (water edge) and floodplain within Area B30 are included in Appendix B. Figure 4 provides the maximum oiling zones observed by the SCAT team during the initial surveys of Area B30.

1.5 Applicable Compiled Treatment Recommendations

The SCAT team developed compiled treatment recommendations (CTRs) providing approved treatment methods (ATMs) for each oiling zone identified during the initial SCAT surveys ([CTR No. 37](#) and [CTR No. 38](#)).

1.6 Oil Removal Activities

Oil removal activities were conducted within Area B30 in accordance with the ATMs identified in the CTRs. [Appendix I](#) of the Summary of Assessment and Oil Removal Activities report presents this data including: date range/days worked, average number of people working per day, equipment used, and various types of bags removed: oily debris, personal protective equipment, plastic, trash, super sacks, wood chips, and contaminated wood.

1.7 Pre-Inspection Survey Transmittal

SCAT Operations liaisons performed an inspection of the remediated areas of SCAT Area B30 and developed a Pre-Inspection Survey Transmittal (PIST) associated with the right bank(s) within Area B30, which is presented in Appendix C.

1.8 Post-Inspection Survey Transmittal

A Post-Inspection Survey Transmittal (POST) was not conducted for this area.

1.9 Summary of Final SCAT Surveys

Figure 5 shows the oiling conditions within Area B30 following completion of oil removal activities. The SCAT team performed final surveys of the left and right bank(s) within SCAT Area B30 to confirm the agreed-upon cleanup endpoints identified in the applicable CTRs had been achieved. The final SCAT survey documentation is presented in Appendix E.

1.10 SCAT Area Conclusions

Based on the final SCAT surveys performed on the left and right bank(s), excluding areas where access was not granted, within Area B30, no further treatment is recommended for these segments. SCAT Segment Sign-Off Forms are included as Appendix F.



**SCAT Area Transition
Report for B30**

Silvertip Pipeline Incident
Laurel, Montana

2. Transition Sign-Off Form

SCAT Area Transition Report for B30

Prepared for:

Unified Command

Date

Unified Command – RP



**SCAT Area Transition
Report for B30**

Silvertip Pipeline Incident
Laurel, Montana

SCAT Area Transition Report for B30

Prepared for:

Unified Command

Date

Unified Command – FOSC



**SCAT Area Transition
Report for B30**

Silvertip Pipeline Incident
Laurel, Montana

SCAT Area Transition Report for B30

Prepared for:

Unified Command

Date

Unified Command – MDEQ

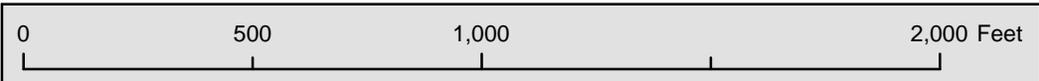
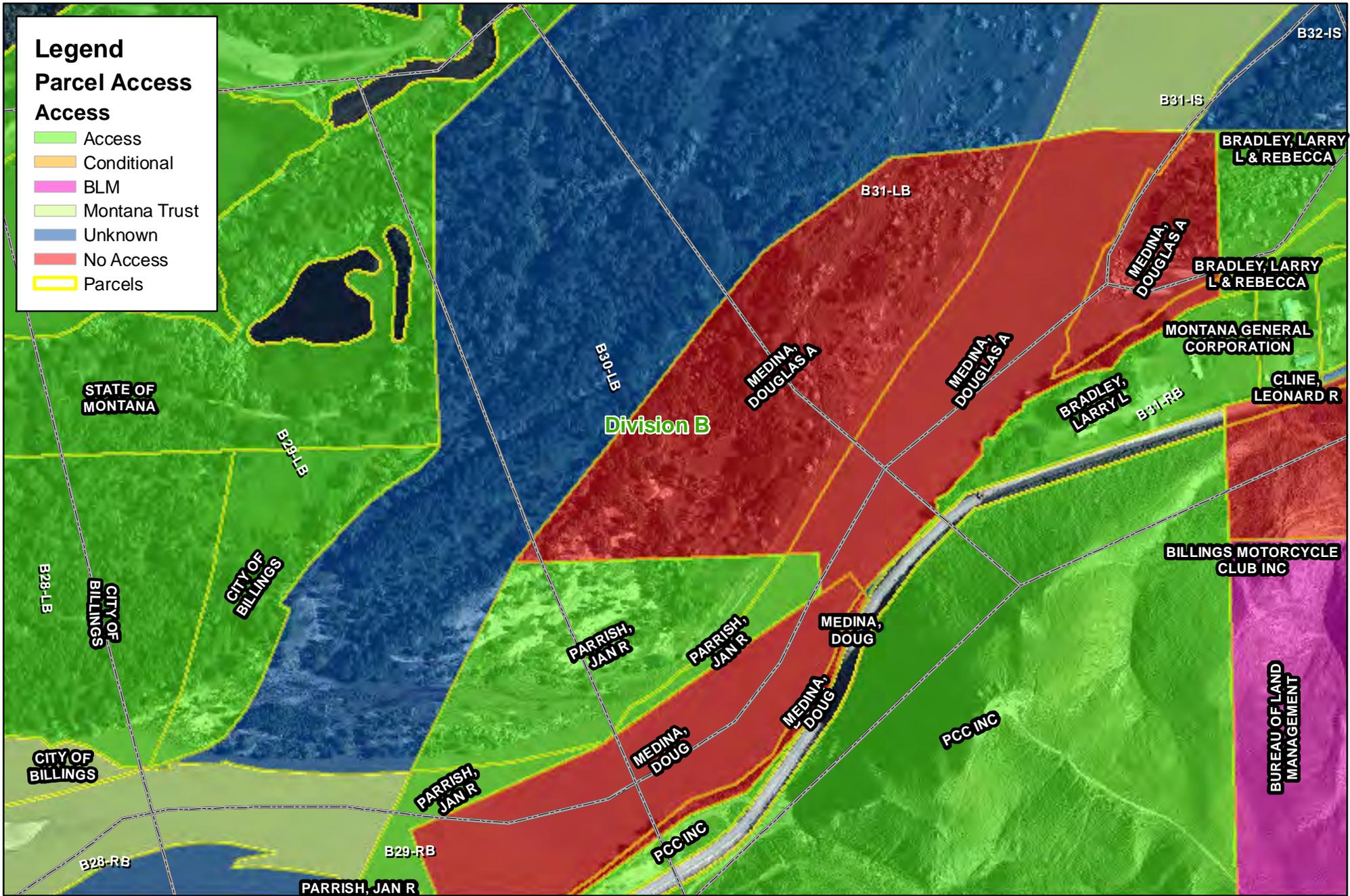
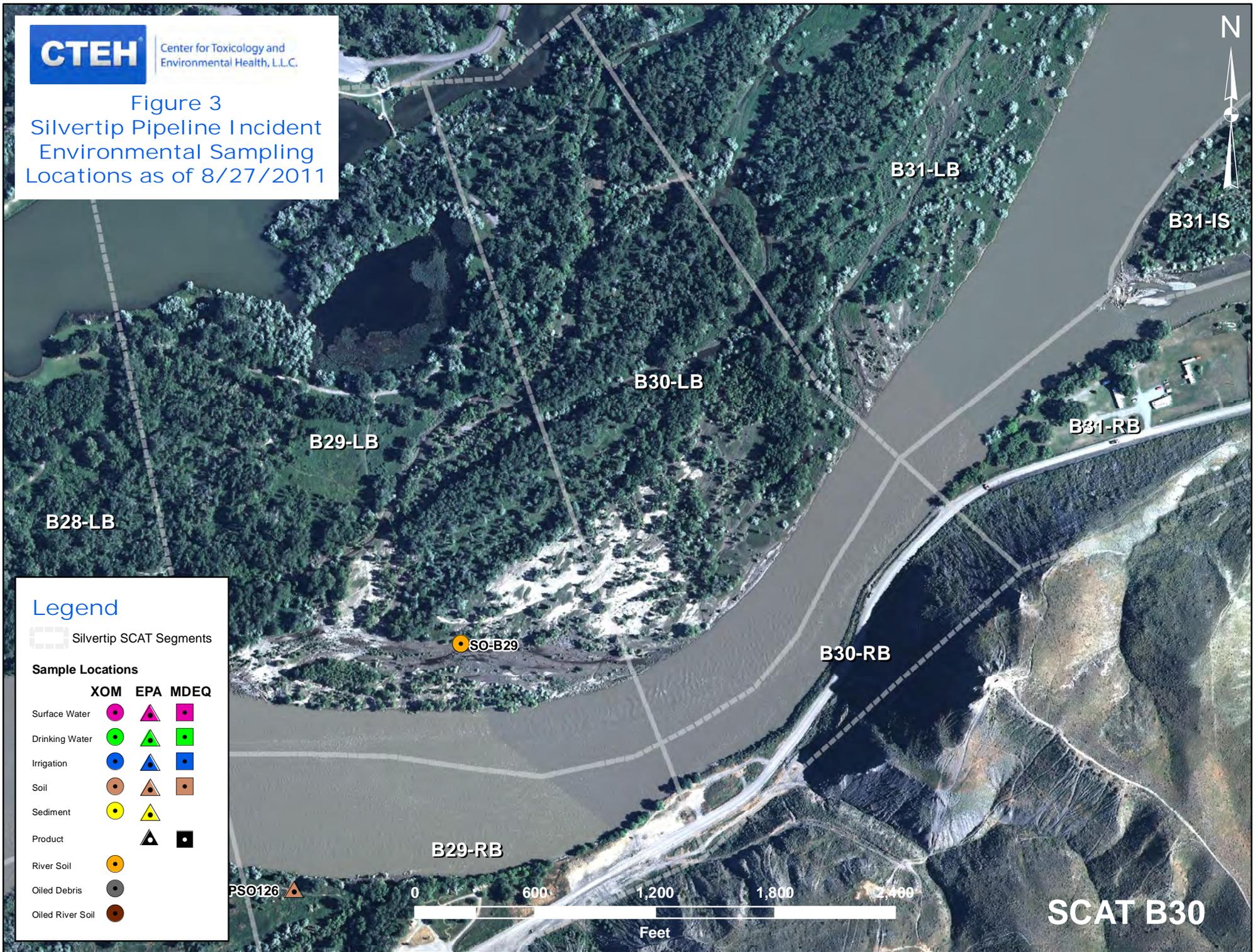


Figure 1



Center for Toxicology and Environmental Health, L.L.C.

Figure 3
Silvertip Pipeline Incident
Environmental Sampling
Locations as of 8/27/2011



Legend

Silvertip SCAT Segments

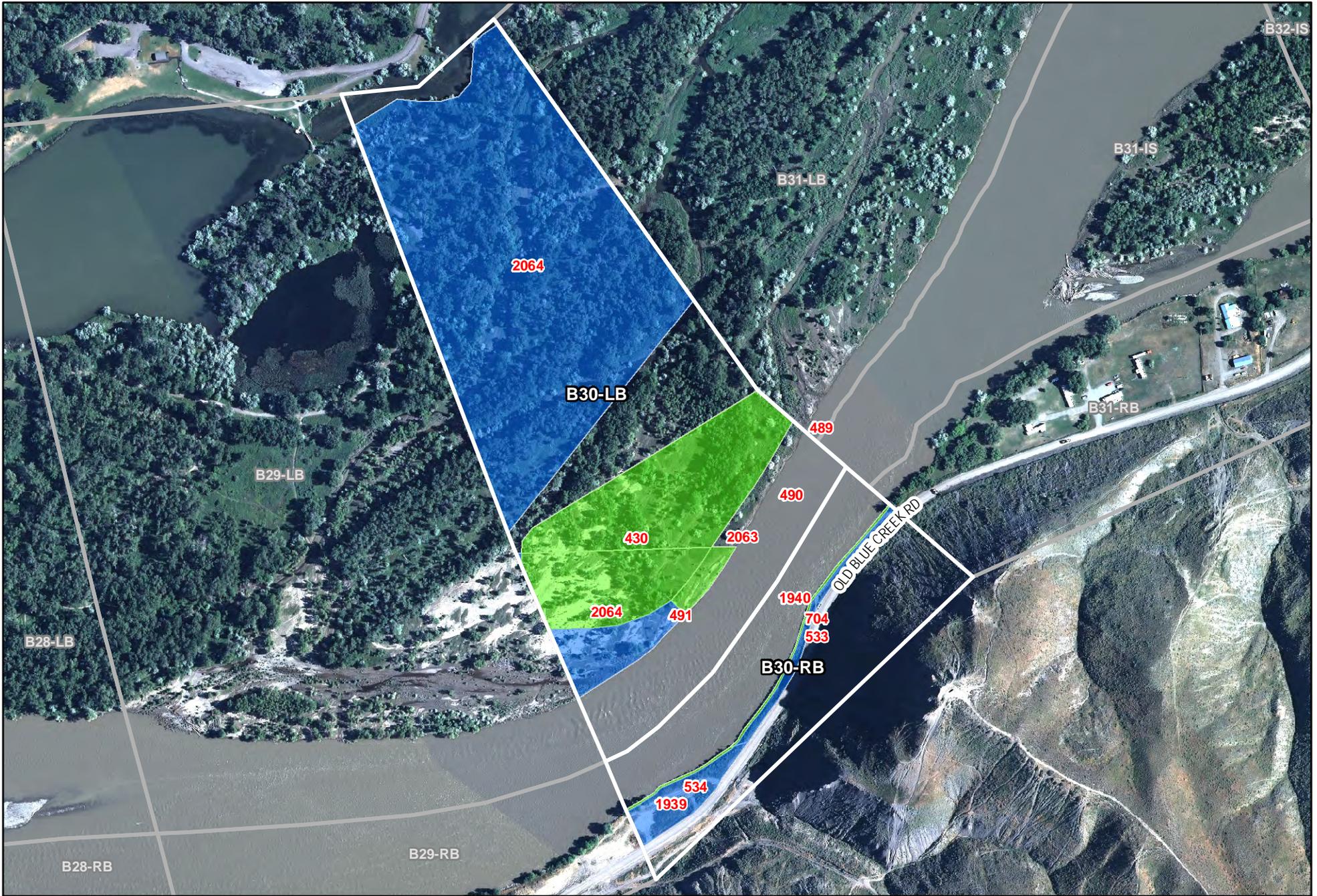
Sample Locations

	XOM	EPA	MDEQ
Surface Water			
Drinking Water			
Irrigation			
Soil			
Sediment			
Product			
River Soil			
Oiled Debris			
Oiled River Soil			

PSO126



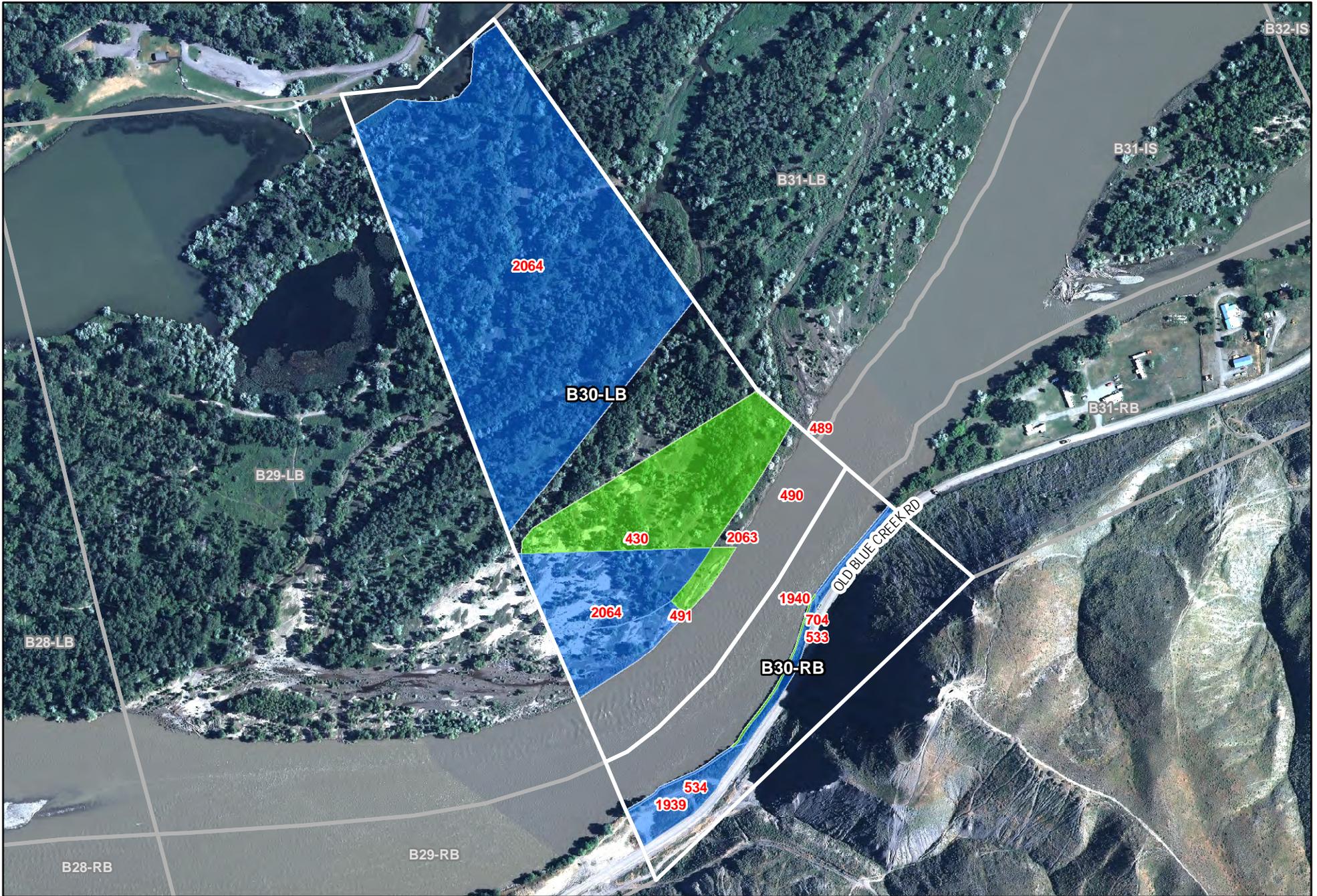
SCAT B30



	9999 Oiling Zone ID	Light Oiling
	Heavy Oiling	Very Light Oiling
	Moderate Oiling	No Oil Observed

Figure 4 - Maximum SCAT Observations For SCAT Area: B30

340 0 340 680 Feet



**Figure 5 - Final SCAT Observations
For SCAT Area:**





Appendix A

Sample Detection Summary



Sample Results For
SCAT Area B30

Printed 10/17/2011

NA - Not Available

Detected Above Screening Level

Sample Num	Date	Sample Type	Matrix	Analytical Method	Analyte	Detected	Result	Screening Level	Result Qualifier	Units	Above?
------------	------	-------------	--------	-------------------	---------	----------	--------	-----------------	------------------	-------	--------

No Samples Taken



Appendix B

Initial SCAT Survey Forms and
Sketches

DB/G

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 19-Jul-2011	Time (24h): std / daylight 1017 hrs to 1021 hrs	Water Level low - mean - <u>bankfull</u> - overbank falling - steady - rising
Segment/Reach ID: B30 <u>Left Bank</u> / Right Bank / Island		Operations Division: B		
Survey by: Foot / ATV / <u>Boat</u> / Helicopter / Overlook / _____		Sun / Clouds / Fog / Rain / Snow / <u>Windy</u> / Calm		Air Temp +/- <u>31</u> deg C

2 SURVEY TEAM # 1	name	organization	contact phone number
Pete Lee	<u>PBL</u>	Polaris	
Larry Alheim		MTDEQ	
Andy Johnson	<u>ANDY JOHNSON</u>	USCG	<u>Andy Johnson</u>

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 368 m

Start GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min. Datum: _____

End GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min.

4A RIVER BANK TYPE SELECT only one primary (P) shoreline type and any number of secondary (S) types. CIRCLE those OILED

Bedrock: Cliff/Ramp _____ Shelf _____ Manmade: Solid _____ Permeable _____ (type) Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud _____ Sand _____ Mixed S _____ Pebble/Cobble _____ Boulder _____ Peat/Organic _____ Vegetated Bank: P Wooded Upland: S

Sediment Flat: Clay/Mud _____ Sand _____ Mixed/Coarse _____ Other: _____ If snow and ice use Winter River SOS

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

Cliff or Bluff: Est Height _____ m canyon _____ manmade _____ meander _____ confined or leveed _____ Substrate Type: mixed

Sloped: (>5°)(15°)(30°) straight P braided S oxbow _____ flood plain valley _____ Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m >100m 130m est. water depth: <1m 1-3m 3-10m >10m _____ m

shoal(s) present Y/N point bar present Y/N bar-shoal substrate: silt / sand / gravel / cobble / boulder / bedrock / debris

seasonal water level: low / mean / bank full / overbank flow est. change over next 7 days: falling — same — rising

5 OPERATIONAL FEATURES Suitable backshore staging Y/N Access: Direct from backshore Y/N Alongshore from next segment Y/N

Debris: Y/N oiled Y/N amount 70 bags or _____ trucks access restrictions

Oiled trees/shrubs Y/N River Current strong Y/N Other Features: _____

6 SURFACE OILING CONDITIONS begin with "A" in the lowest tidal zone - circle the zone/s that correspond to primary shoreline type

489
490
491

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER						SUBST. TYPE(S)			
	MS	LB	UB	OB	Length m	Width m	Distrib. %	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR		AP	NO	
A				X	43	1															X	Grass, trees, debris
B				X	210	1	100			X	X			X								Grass, trees, debris
C				X	115	1															X	Grass, trees, debris

7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench — e.g., "A1"

TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER								WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)				
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR	NO									

8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

Overbank Survey Required Y/N Overbank Survey Completed Y/N Shoreline Survey Completed Y/N

Oil band heights: Zone B - 40cm

Treatment Recommendations:
 Zone A: No oil observed; no treatment required.
 Zone B: Cut & remove oil coated vegetation smaller than 1" diameter. Wipe larger oil coated vegetation.
 Zone C: No oil observed; no treatment required.

*Refer to current approved treatment methods #1 (Cutting of Vegetation), #2 (Dead Vegetation and Small Debris), #3 (Large Woody Debris), #6 (Sorbent Use), # (Unconsolidated Sediments)

Sketch Yes / No Photos Yes / No Frames 1145-1155 (Lee)

1 GENERAL INFORMATION		Date (dd/mm/yy) 19-Jul-2011	Time (24h): std / daylight 10:17 21 10050 hrs to 10:10 hrs	Water Level low - mean - <u>bankfull</u> - overbank falling - steady - rising
Segment/Reach ID: B370 <u>Left Bank</u> / Right Bank / Island		Operations Division: B		
Survey by: Foot / ATV / <u>Boat</u> / Helicopter / Overlook /		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - <u>31</u> deg C

2 SURVEY TEAM # 1	name	organization	contact phone number
Pete Lee		Polaris	
Larry Alheim		MTDEQ	
Andy Johnson		USCG	
			368

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 578 m

Start GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min. Datum: _____

End GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min.

4A RIVER BANK TYPE SELECT only one primary (P) shoreline type and any number of secondary (S) types. CIRCLE those OILED

Bedrock: Cliff/Ramp _____ Shelf _____ Manmade: Solid _____ Permeable _____ (type) Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud _____ Sand _____ Mixed S _____ Pebble/Cobble _____ Boulder _____ Peat/Organic _____ Vegetated Bank: P Wooded Upland: S

Sediment Flat: Clay/Mud _____ Sand _____ Mixed/Coarse _____ Other: _____ If snow and ice use Winter River SOS

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

Cliff or Bluff: _____ Est Height _____ m canyon _____ manmade _____ meander _____ confined or leveed _____ Substrate Type: mixed

Sloped: (>5°)(15°)(30°) straight P braided S oxbow _____ flood plain valley _____ Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m >100m 130m est. water depth: <1m 1-3m 3-10m >10m _____ m

shoal(s) present Y/N point bar present Y/N bar-shoal substrate: silt / sand / gravel / cobble / boulder / bedrock / debris

seasonal water level: low / mean / bank full / overbank flow est. change over next 7 days: falling — same — rising

5 OPERATIONAL FEATURES Suitable backshore staging Y/N Access: Direct from backshore Y/N Alongshore from next segment Y/N

Debris: Y/N oiled Y/N amount 41 bags or _____ trucks access restrictions

Oiled trees/shrubs Y/N 70 River Current strong Y/N Other Features:

6 SURFACE OILING CONDITIONS begin with "A" in the lowest tidal zone - circle the zone/s that correspond to primary shoreline type

OIL ZONE	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER							SUBST. TYPE(S)		
	MS	LB	UB	OB	Length m	Width m	Distrib. %	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR	AP		NO	
A				X	85	1															X	Grass, trees, debris
B				X	15	1	100			X	X		X									Grass, trees, debris
C				X	496	1															X	Grass, trees, debris
					210																	

7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench — e.g., "A1"

TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER						WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)	
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR					NO

8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

Overbank Survey Required Y/N Overbank Survey Completed Y/N Shoreline Survey Completed Y/N

Oil band heights: Zone B - 60cm
40

Treatment Recommendations:
 Zone A: No oil observed; no treatment required.
 Zone B: Cut & remove oil coated vegetation smaller than 1" diameter. Wipe larger oil coated vegetation.
 Zone C: No oil observed; no treatment required.

*Refer to current approved treatment methods #1 (Cutting of Vegetation), #2 (Dead Vegetation and Small Debris), #3 (Large Woody Debris), #6 (Sorbent Use), # (Unconsolidated Sediments)

Sketch Yes / No Photos Yes / No Frames 1145-1155 (Lee)



©2010 Google™

Eye alt 5187 ft

Image © 2011 GeoEye

45°44'22.54" N 108°31'14.52" W elev 3140 ft

B30

Imagery Date: 8/5/2009

DB/G/S

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION

Segment/Reach ID: B30 Left Bank / Right Bank / Island

Operations Division: B

Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____

Date (dd/mm/yy): 21/07/11

Time (24h): std / daylight 1239 hrs to 1323 hrs

Water Level: low - mean - bankfull - overbank
 falling - steady - rising

Air Temp +/- 28 deg C

2 SURVEY TEAM # 2

name	organization	contact phone number
<u>Chuck Pears</u>	<u>Coastal Entry</u>	<u>812-927-1194</u>
<u>Ed Riely</u>	<u>MDEQ</u>	<u>406-461-3386</u>
<u>Patrick Krisker</u>	<u>USCG</u>	<u>415-320-5244</u>

3 SEGMENT

Total Segment/Reach Length 280 m Segment/Reach Length Surveyed 280 m

Start GPS: LATITUDE 45 deg. 44.435 min. LONGITUDE 108 deg. 31.49 min. Datum: NAD83

End GPS: LATITUDE 45 deg. 44.472 min. LONGITUDE 108 deg. 31.201 min.

4A RIVER BANK TYPE SELECT only one primary (P) shoreline type and any number of secondary (S) types. CIRCLE those OILED

Bedrock: Cliff/Ramp _____ Shelf _____ Manmade: Solid _____ Permeable _____ (type) _____ Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud _____ Sand (P) Mixed _____ Pebble/Cobble (S) Boulder _____ Peat/Organic _____ Vegetated Bank (S) Wooded Upland: _____

Sediment Flat: Clay/Mud _____ Sand _____ Mixed/Coarse _____ Other: _____ If snow and ice use Winter River SOS

4B RIVER VALLEY CHARACTER select as appropriate

Cliff or Bluff: _____ Est Height _____ m canyon _____ manmade _____ meander _____ confined or leveed _____

Sloped: (>5°)(15°)(30°) straight _____ braided (P) oxbow _____ flood plain valley _____

Substrate Type: Sand/Silt

Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m >100m 180 m est. water depth: <1m 1-3m 5-10m >10m _____ m

shoal(s) present (Y)/N point bar present (Y)/N bar-shoal substrate: (S) silt/sand/ gravel/ cobble/ boulder/ bedrock/ debris

seasonal water level: low / mean / bank full / overbank flow est. change over next 7 days: falling - same - rising

Suitable backshore staging Y/N Access: Direct from backshore (Y)/N Alongshore from next segment (Y)/N

Debris (Y)/N oiled (Y)/N amount 10 bags or _____ trucks access restrictions

Oiled trees/shrubs (Y)/N River Current strong (Y)/N Other Features:

5 OPERATIONAL FEATURES

begin with "A" in the lowest tidal zone - circle the zone/s that correspond to primary shoreline type

6 SURFACE OILING CONDITIONS

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER								SUBST. TYPE(S)			
					Length	Width	Distrib.	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR	AP	NO				
																						m	m	%
A				X	280	100	<1				S	P												Sand/Silt

7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench - e.g., "A1"

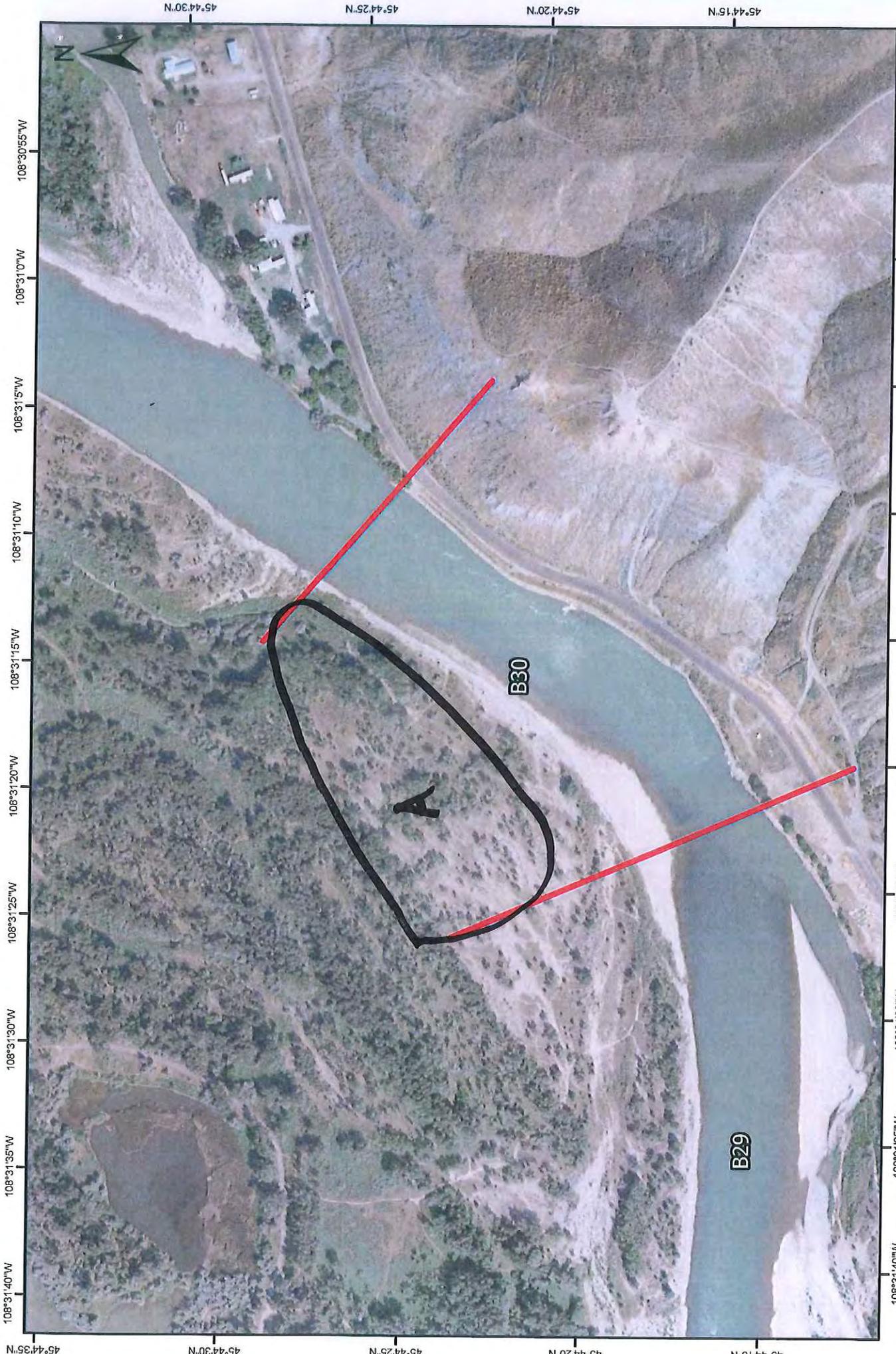
TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER								WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)
							SAP	OP	PP	OR	OF	TR	NO					

8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

Zone has a little sporadic stand and coastal debris and veg. Debris needs to be bagged and removed. Veg needs to be cut out or treated and removed.

(for ALL sub-segments record: sub-segment ID, length, length surveyed, and GPS start/end fixes)

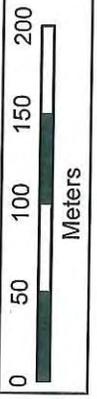
Sketch Yes/No Photos Yes/No (Roll # _____ Frames _____) Video Tape Yes/No (tape# _____)



B30-
29 (L/R/I)??

DATE:
TEAM:

COMMENTS:



45°44'15"N 45°44'20"N 45°44'25"N 45°44'30"N

45°44'15"N 45°44'20"N 45°44'25"N 45°44'30"N

108°31'40"W 108°31'35"W 108°31'30"W 108°31'25"W 108°31'20"W 108°31'15"W 108°31'10"W 108°31'05"W 108°31'00"W 108°30'55"W

108°31'40"W 108°31'35"W 108°31'30"W 108°31'25"W 108°31'20"W 108°31'15"W 108°31'10"W 108°31'05"W 108°31'00"W 108°30'55"W

DB/G/S

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy)	Time (24h): std / daylight	Water Level
Segment/Reach ID: <u>B3D</u>	Left Bank / <u>Right Bank</u> / Island	19 / 07 / 11	low - mean / <u>bankfull</u> / overbank	
Operations Division: <u>B</u>			1019 hrs to 1022 hrs	<u>falling</u> / steady - rising
Survey by: <u>Foot / ATV / Boat / Helicopter / Overlook /</u>	<u>Sun</u> / Clouds / Fog / Rain / Snow / Windy / Calm			Air Temp + / - <u>35</u> deg C

2 SURVEY TEAM # 5	name	organization	contact phone number
	Bob Nailon	Cardno ENTRIX	713 817 2469
	John Beach	EPA	707 364 0491
	Ken Frazer	FWP	406 247 2961

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 406 m

Start GPS: LATITUDE N _____ deg. _____ min. LONGITUDE W _____ deg. _____ min. Datum: WGS 84

End GPS: LATITUDE N _____ deg. _____ min. LONGITUDE W _____ deg. _____ min.

4A RIVER BANK TYPE SELECT only one primary (P) shoreline type and any number of secondary (S) types. CIRCLE those OILED

Bedrock: Cliff/Ramp _____ Shelf _____ Manmade: Solid _____ Permeable _____ (type) rip rap Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud _____ Sand _____ Mixed S Pebble/Cobble S Boulder _____ Peat/Organic _____ Vegetated Bank: P Wooded Upland: _____

Sediment Flat: Clay/Mud _____ Sand _____ Mixed/Coarse _____ Other: _____ If snow and ice use Winter River SOS

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

Cliff or Bluff: Est Height _____ m canyon _____ manmade X meander X confined or leveed _____ Substrate Type: mixed

Sloped: (>5°)(15°)(30°) straight X braided _____ oxbow _____ flood plain valley _____ Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m >100m 150 m est. water depth: <1m 1-3m 3-10m >10m _____ m

shoal(s) present Y / N point bar present Y / N bar-shoal substrate: silt / sand / gravel / cobble / boulder / bedrock / debris

seasonal water level: low / mean / bank full / overbank flow est. change over next 7 days: falling — same — rising

5 OPERATIONAL FEATURES Suitable backshore staging Y / N Access: Direct from backshore Y / N Alongshore from next segment Y / N

Debris: Y / N oiled Y / N amount _____ bags or _____ trucks access restrictions

Oiled trees/shrubs Y / N River Current strong Y / N Other Features: Access primarily from river.

6 SURFACE OILING CONDITIONS begin with "A" in the lowest tidal zone - circle the zone/s that correspond to primary shoreline type

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER							SUBST. TYPE(S)	
	MS	LB	UB	OB	Length m	Width m	Distrib. %	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR	AP		NO
A				<u>X</u>	406		40				<u>S</u>	<u>P</u>	<u>FR</u>								<u>veg bank</u>

7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench — e.g., "A1"

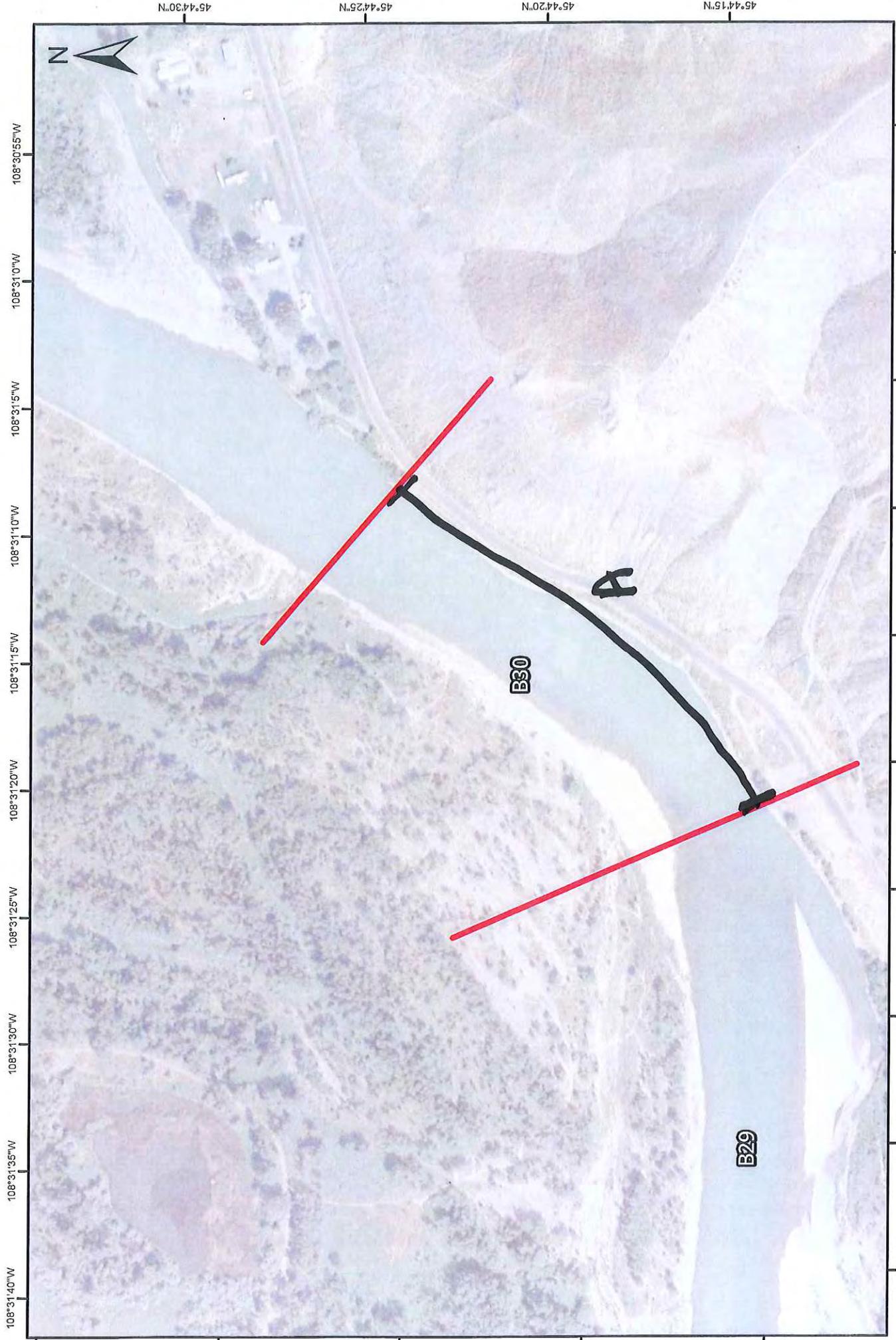
TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER						WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)	
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR					NO

8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

OSR = yes OSC = unk SSC = unk

(for ALL sub-segments record: sub-segment ID, length, length surveyed, and GPS start/end fixes)

Sketch/Yes/No Photos/Yes/No (Roll # 5156 Frames 5171) Video Tape Yes/No (tape#)



108°31'40"W 108°31'35"W 108°31'30"W 108°31'25"W 108°31'20"W 108°31'15"W 108°31'10"W 108°31'05"W 108°31'00"W 108°30'55"W

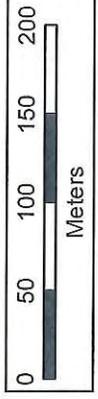
45°44'30"N 45°44'25"N 45°44'20"N 45°44'15"N

108°31'40"W 108°31'35"W 108°31'30"W 108°31'25"W 108°31'20"W 108°31'15"W 108°31'10"W 108°31'05"W

B30 -
(L/R/I)??

DATE:
TEAM:

COMMENTS:



DB 16

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION

Segment/Reach ID: B36 Left Bank / Right Bank / Island Right Bank Date (dd/mm/yy) 22/07/11 Time (24h): std / daylight 13:20 hrs to 14:30 hrs Water Level low - mean - bankfull - overbank
 Operations Division: Foot / ATV / Boat / Helicopter / Overlook / Sun (Clouds) / Fog / Rain / Snow / Windy / Calm Air Temp +/- 22 deg C

2 SURVEY TEAM # 4

name	organization	contact phone number
<u>John Matuschek</u>	<u>Condo ENTRIX</u>	<u>989 277 2507</u>
<u>Gary Riley</u>	<u>EPA</u>	<u>415 215 0690</u>
<u>Courtney Joyce</u>	<u>EPA</u>	<u>406 860 7814</u>
<u>Justin Haskaluk</u>	<u>EPA</u>	<u>406 697 3442</u>

3 SEGMENT Total Segment/Reach Length 340 m Segment/Reach Length Surveyed 340 m

Start GPS: LATITUDE 45 deg. 44.252 min. LONGITUDE 108 deg. 31.398 min. Datum: WGS84
 End GPS: LATITUDE 45 deg. 44.396 min. LONGITUDE 108 deg. 31.157 min.

4A RIVER BANK TYPE SELECT only one primary (P) shoreline type and any number of secondary (S) types. CIRCLE those OILED

Bedrock: Cliff/Ramp Shelf Manmade: Solid Permeable (type) Wetland: Swamp Bog/Fen Marsh
 Sediment Bank: Clay/Mud Sand Mixed Pebble/Cobble Boulder Peat/Organic Vegetated Bank: (P) Wooded Upland: S
 Sediment Flat: Clay/Mud Sand Mixed/Coarse Other: If snow and ice use Winter River SOS

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

Cliff or Bluff: Est Height m canyon manmade meander (P) confined or leveed Substrate Type: veg
 Sloped: (>5°)(15°)(30°) straight braided oxbow flood plain valley Forested (Vegetated) / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m >100m m est. water depth: <1m (1-3m) 3-10m >10m m
 shoal(s) present (Y) N point bar present (Y) N bar-shoal substrate: silt / sand / gravel / cobble / boulder / bedrock / debris
 seasonal water level: low / (mean) / bank full / overbank flow est. change over next 7 days: (falling) same — rising

5 OPERATIONAL FEATURES Suitable backshore staging (Y) N Access: Direct from backshore (Y) N Alongshore from next segment Y / N
 Debris: Y (N) oiled (Y) N amount bags or trucks access restrictions
 Oiled trees/shrubs (Y) N River Current strong (Y) N Other Features:

6 SURFACE OILING CONDITIONS begin with "A" in the lowest tidal zone - circle the zone/s that correspond to primary shoreline type

533
534

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER							SUBST. TYPE(S)		
	MS	LB	UB	OB	Length m	Width m	Distrib. %	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR	AP		NO	
A				<u>P</u>	<u>340</u>	<u>2</u>	<u>10</u>			<u>P</u>	<u>S</u>						<u>P</u>					<u>veg.</u>
B				<u>P</u>	<u>340</u>	<u>25</u>	<u>0</u>													<u>NOO</u>		<u>veg.</u>

7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench — e.g., "A1"

TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER						WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)	
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR					NO

8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

over-bank survey required (Y) over-bank survey completed (P) shoreline survey completed (Y)
 Zone A - Recommend low priority vegetation cutting and removal
 Zone B - No oil

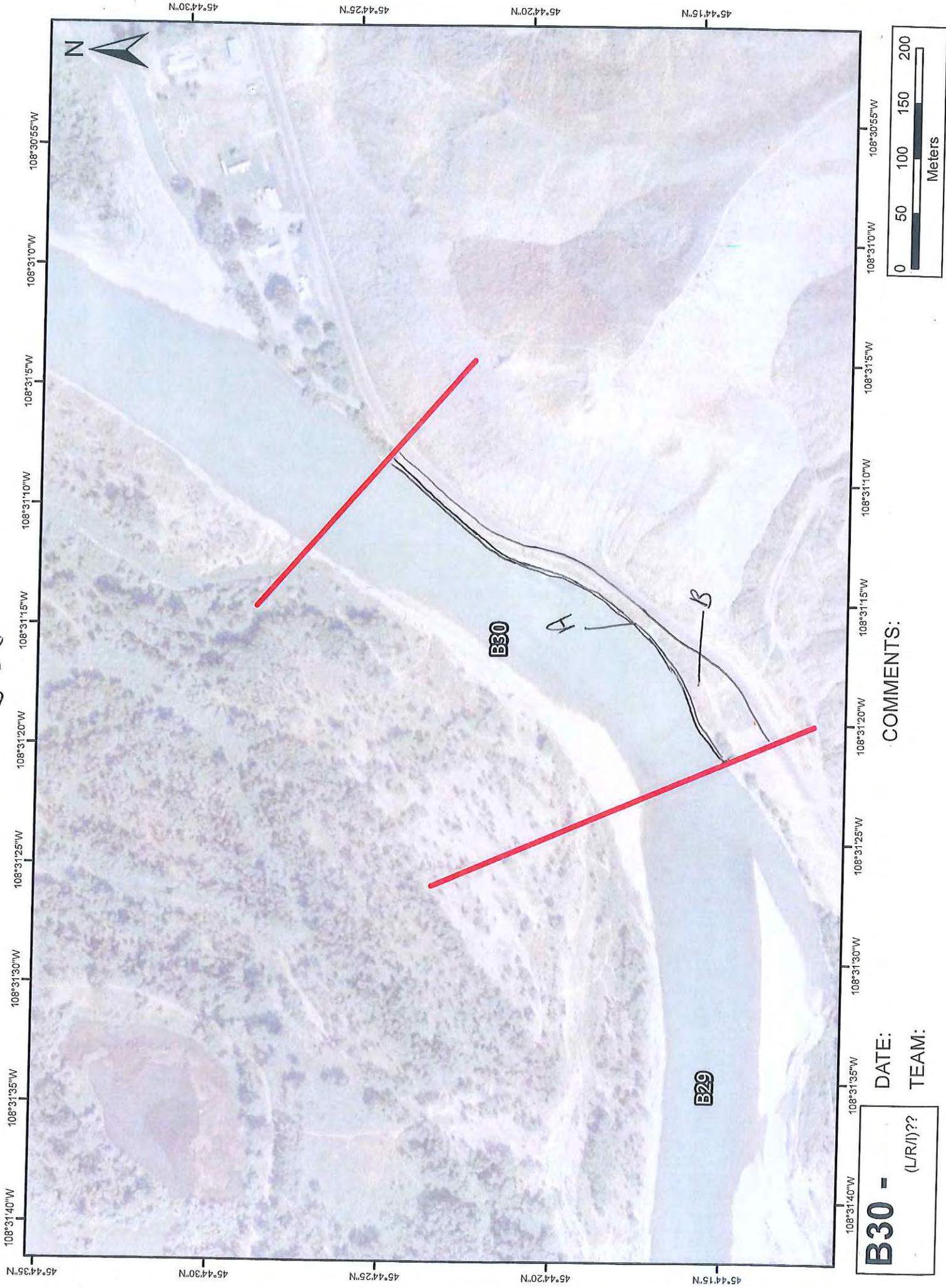
(for ALL sub-segments record: sub-segment ID, length, length surveyed, and GPS start/end fixes)
 Sketch (Y) No Photos (Y) No (Roll # _____ Frames _____) Video Tape Yes (No) (tape # _____)

DB 16

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION				Date (dd/mm/yy) <u>22/07/11</u>	Time (24h): std / daylight 13:20 hrs to 14:30 hrs	Water Level low - mean - bankfull - overbank <u>(falling)</u> steady - rising																
Segment/Reach ID: <u>B3B</u> Left Bank / Right Bank / Island				Operations Division:		Survey by: <u>(Foot)</u> / ATV / Boat / Helicopter / Overlook /		Sun (Clouds) Fog / Rain / Snow / Windy / Calm		Air Temp + / - <u>22</u> deg C												
2 SURVEY TEAM # <u>4</u>		name		organization		contact phone number																
<u>John Matuschek</u>		<u>John Matuschek</u>		<u>Cardno ENVIX</u>		<u>909 277 2507</u>																
<u>Gary Riley</u>		<u>Gary Riley</u>		<u>EPA</u>		<u>415 215 0690</u>																
<u>Courtney Tyne</u>		<u>Courtney Tyne</u>		<u>FWP</u>		<u>406 860 7814</u>																
<u>Justin Alkade</u>		<u>Justin Alkade</u>		<u>FWP</u>		<u>406 697 3442</u>																
3 SEGMENT		Total Segment/Reach Length <u>340</u> m		Segment/Reach Length Surveyed <u>340</u> m																		
Start GPS: LATITUDE <u>45</u> deg. <u>44.252</u> min.		LONGITUDE <u>108</u> deg. <u>31.340</u> min.		Datum: <u>WGS84</u>																		
End GPS: LATITUDE <u>45</u> deg. <u>44.396</u> min.		LONGITUDE <u>108</u> deg. <u>31.157</u> min.																				
4A RIVER BANK TYPE SELECT only one primary (P) shoreline type and any number of secondary (S) types. CIRCLE those OILED																						
Bedrock: Cliff/Ramp <u>Shelf</u>		Manmade: Solid <u>Permeable</u> (type)		Wetland: Swamp <u>Bog/Fen</u> <u>Marsh</u>																		
Sediment Bank: Clay/Mud <u>P</u> Sand <u>Mixed</u> Pebble/Cobble <u>Boulder</u> Peat/Organic		Vegetated Bank <u>(P)</u> <u>Wooded Upland</u> : <u>S</u>																				
Sediment Flat: Clay/Mud <u>Sand</u> <u>Mixed/Coarse</u> Other:		If snow and ice use Winter River SOS																				
4B RIVER VALLEY CHARACTER select as appropriate																						
Cliff or Bluff: Est Height <u>m</u>		canyon <u>manmade</u> meander <u>(P)</u> confined or leveed		Substrate Type: <u>(Veg)</u>																		
Sloped: (>5°)(15°)(30°)		straight <u>braided</u> oxbow <u>flood plain valley</u>		Forested <u>(Vegetated)</u> / Bare																		
4C RIVER CHANNEL CHARACTER circle or select as appropriate																						
est. width: <1m 1-10m 10-100m <u>>100m</u> <u>✓</u> m		est. water depth: <1m <u>(1-3m)</u> 3-10m >10m <u>m</u>		bar-shoal substrate: silt / sand / gravel / <u>(cobble)</u> / boulder / bedrock / debris																		
shoal(s) present <u>(N)</u> point bar present <u>(N)</u>		seasonal water level: low / <u>(mean)</u> / bank full / overbank flow		est. change over next 7 days: <u>(falling)</u> - same - rising																		
5 OPERATIONAL FEATURES																						
Suitable backshore staging <u>(N)</u>		Access: Direct from backshore <u>(N)</u> Alongshore from next segment <u>(N)</u>		Other Features:																		
Debris: <u>(N)</u> <u>(N)</u> <u>(N)</u> amount <u>bags</u> or <u>trucks</u>		access restrictions																				
Oiled trees/shrubs <u>(N)</u> River Current strong <u>(N)</u>																						
6 SURFACE OILING CONDITIONS begin with "A" in the lowest tidal zone - circle the zone/s that correspond to primary shoreline type																						
OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS				OIL CHARACTER				SUBST. TYPE(S)						
	MS	LB	UB	OB	Length m	Width m	Distrib. %	TO	CV	CT	ST	FL	FR	MS	TB		PT	TC	SR	AP	NO	
<u>533</u> <u>534</u> A				<u>P</u>	<u>340</u>	<u>2</u>	<u>10</u>			<u>P</u>	<u>S</u>										<u>Veg.</u>	
B				<u>P</u>	<u>340</u>	<u>25</u>	<u>0</u>														<u>NO</u>	<u>Veg.</u>
7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench - e.g., "A1"																						
TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER						WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes/No	SUBST. TYPE(S)						
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR					NO					
8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations																						
<p>over-bank survey required <u>(N)</u> over-bank survey completed <u>(P)</u> shoreline survey completed <u>(P)</u></p> <p>Zone A- Recommend low priority vegetation cutting and removal</p> <p>Zone B- No oil</p>																						
(for ALL sub-segments record: sub-segment ID, length, length surveyed, and GPS start/end fixes)																						
Sketch Yes/No Photos Yes/No (Roll # _____ Frames _____) Video Tape Yes/No (Tape # _____)																						

B-30



B30 -
 (L/R/I)??

DATE:
 TEAM:

COMMENTS:



Appendix C

Pre-Inspection Survey Transmittal

SCAT – Pre Inspection Survey Transmittal (PIST) Memo

Survey Date: 28 AUG 2011

Segment: B-30 RB

Team: SCAT Liaison PETE PRITCHARD Signed: [Signature]

Observer HERB WOOD Signed: [Signature]

Observer _____ Signed: _____

Observer _____ Signed: _____

Segment meets criteria? YES X NO _____

RBOS attached? YES _____ NO X

If NO:
Location Sketch attached? YES _____ NO X

CTR continue? YES _____ NO X

Comments:



Appendix D

Post-Inspection Survey Transmittal

**A Post-Inspection Survey
was not conducted for this area**



Appendix E

Final SCAT Survey Forms and
Sketches

DB

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 02/09/11	Time (24h): std / daylight 1330 hrs to 1300 hrs	Water Level low - <u>mean</u> - bankfull - overbank falling - steady - rising
Segment/Reach ID: B <u>30</u> Left Bank / Right Bank / Island				
Operations Division: B				
Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook /		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - <u> </u> deg C

2 SURVEY TEAM # <u>2</u>	Name	Organization	Signature
	Pete Lee	Polaris	<i>PBL</i>
	Larry Alheim	MTDEQ	<i>LA</i>
	Stephen Ball	USEPA	<i>SB</i>

3 SEGMENT Total Segment/Reach Length 345 m Segment/Reach Length Surveyed 285 m

Start GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min. Datum: _____

End GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min.

4A RIVER BANK TYPE SELECT only one primary (P) shoreline type and any number of secondary (S) types. CIRCLE those OILED

Bedrock: Cliff/Ramp _____ Shelf _____ Manmade: Solid _____ Permeable _____ (type) _____ Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud _____ Sand _____ Mixed X Pebble/Cobble _____ Boulder _____ Peat/Organic _____ Vegetated Bank: P Wooded Upland: S

Sediment Flat: Clay/Mud _____ Sand _____ Mixed/Coarse _____ Other: _____ If snow and ice use Winter River SOS

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

Cliff or Bluff: _____ Est Height _____ m canyon _____ manmade _____ meander _____ confined or leveed _____ Substrate Type: _____

Sloped: (>5°)(15°)(30°) straight _____ braided XP oxbow _____ flood plain valley X Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m >100m m est. water depth: <1m 1-3m >10m m

shoal(s) present Y N point bar present Y N bar-shoal substrate: silt / sand / gravel / cobble / boulder / bedrock / debris

seasonal water level: low / mean / bank full / overbank flow est. change over next 7 days: falling — same — rising

5 OPERATIONAL FEATURES Suitable backshore staging Y / N Access: Direct from backshore Y / N Alongshore from next segment Y / N

Debris Y / N oiled Y / N amount _____ bags or _____ trucks Access restrictions: Private landowner partial segment

Oiled trees/shrubs X / N River Current strong Y / N Other Features: _____

6 SURFACE OILING CONDITIONS begin with "A" in the lowest tidal zone - circle the zone/s that correspond to primary shoreline type

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER							SUBST. TYPE(S)		
	MS	LB	UB	OB	Length m	Width m	Distrib. %	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR	AP		NO	
A				X	70	25	L1				X						X					Grass, ...
B				X	100	620															X	"

7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench — e.g., "A1"

TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER						WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)	
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR					NO

8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

Overbank Survey Required (Y) / N Overbank Survey Completed (Y) / N Shoreline Survey Completed (Y) / N

Oil height: 10 cm

Treatment recommendations:

Zone A : No further treatment required.

Zone B : NO

Note: Landowner area not surveyed - no access

Operations had treated segment to end point (Zones C, D in CTR 38)

Ops team (Rich Jessup) removed 3 bags of CT VG, DB

Sketch Yes / No Photos Yes / No Frames _____ Photographer _____



B30L
Team 2
02/09/11

DB/G

R

1 GENERAL INFORMATION		Date (dd/mm/yy) 28/08/11	Time (24h): std / daylight hrs to hrs	Water Level low - mean - bankfull - overbank falling - steady - rising
Segment/Reach ID: B30 Left Bank / <u>Right Bank</u> / Island				Air Temp +/- <u>35</u> deg C
Operations Division:		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		
2 SURVEY TEAM # 1		Name	Organization	Signature
		Josh Hofkes	Cardno ENTRIX	
		Merlo Gauvreau	Polaris	
		Stephen Ball	EPA	
		Donnie McCurry	DEP	
		Lance Richman	EPA	

3 SEGMENT Total Segment/Reach Length 280 m Segment/Reach Length Surveyed 280 m

Start GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min. Datum: _____

End GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min.

4A RIVER BANK TYPE SELECT only one primary (P) shoreline type and any number of secondary (S) types. CIRCLE those OILED

Bedrock: Cliff/Ramp _____ Shelf _____ Manmade: Solid _____ Permeable _____ (type) _____ Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud _____ Sand S Mixed P Pebble/Cobble _____ Boulder _____ Peat/Organic S Vegetated Bank: _____ Wooded Upland: _____

Sediment Flat: Clay/Mud _____ Sand P Mixed/Coarse _____ Other: _____ If snow and ice use Winter River SOS

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

Cliff or Bluff: _____ Est Height _____ m canyon _____ manmade _____ meander S confined or leveed _____ Substrate Type: _____

Sloped: (>5°)(15°)(30°) straight _____ braided _____ oxbow S flood plain valley P Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m <100m est. water depth: <1m 1-3m 3-10m >10m _____ m

shoal(s) present Y / N point bar present Y / N bar-shoal substrate: silt / sand / gravel / cobble / boulder / bedrock / debris

seasonal water level: low / mean / bank full / overbank flow est. change over next 7 days: falling — same — rising

5 OPERATIONAL FEATURES Suitable backshore staging Y / N Access: Direct from backshore Y / N Alongshore from next segment Y / N

Debris: Y / N oiled Y / N amount _____ bags or _____ trucks access restrictions

Oiled trees/shrubs Y / N River Current strong Y / N Other Features:

6 SURFACE OILING CONDITIONS begin with "A" in the lowest tidal zone - circle the zone/s that correspond to primary shoreline type

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER					SUBST. TYPE(S)			
	MS	LB	UB	OB	Length m	Width m	Distrib. %	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC		SR	AP	NO
1939 1940 A				X	150	30															X
B				X	130	5															X

7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench — e.g., "A1"

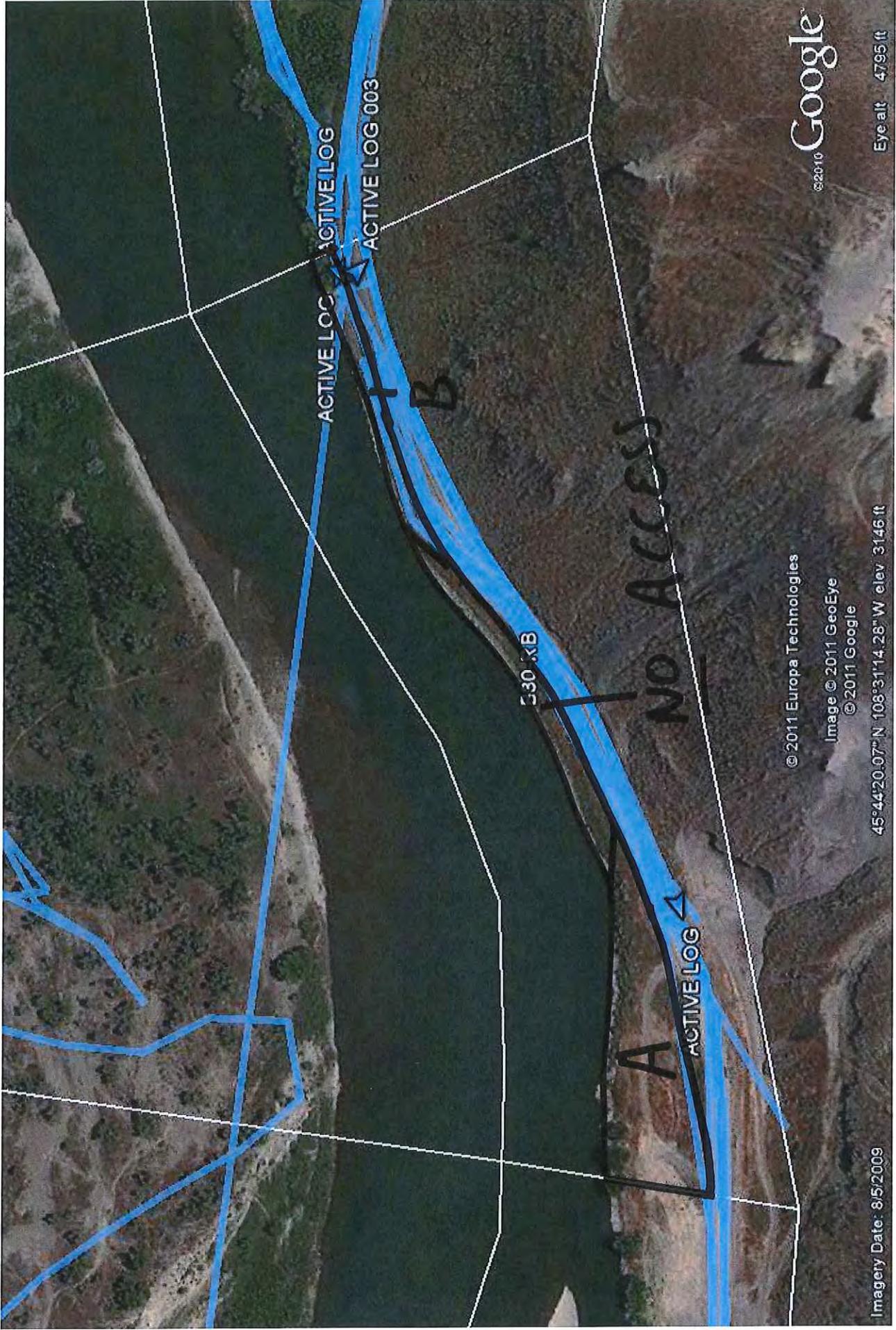
TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER						WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)	
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR					NO

8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

Overbank Survey Required Y / N Overbank Survey Completed Y / N Shoreline Survey Completed Y / N

Hotshot Ops: Matt Delong
 => Removed 4 bag oil veg / woody debris
 A: N.F.T.
 B: N.F.T.

Sketch Yes / No Photos Yes / No Frames/Photographer: _____



A: N.O.O.
B: N.O.O.

TEAM 1
B 30 RB
August 28, 2011



Appendix F

Completed SCAT Segment Sign-Off
Forms

SCAT SEGMENT OPERATIONS COMPLETION SIGN-OFF SHEET

SILVERTIP PIPELINE RELEASE

Segment B30 LB Date of Survey 9/2/11

Dates of Initial SCAT Assessments 19 JUL 11 (E)
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment 38

Segment has been treated by Operations or an Operations Hotshot Team YES NO

Segment Assessment Complete¹
Partial Segment Assessment

The undersigned are in agreement that the above segment or partial segment meets the Approved Treatment Methods Target Endpoints.

This Segment is Conditionally Approved
(See attached Post Inspection Survey Transmittal (POST))

The undersigned are in agreement that the above segment meets the Approved Treatment Methods Target Endpoints conditional upon completion of the treatment identified in the attached Post Inspection Survey Transmittal (POST).

A L BU Stephen Ball EPA 9/3/11
Sign Name Print Name/ Affiliation Date
Federal Representative (EPA/USCG)

L. P. Alf Larry Alheim MT DEQ 9/2/11
Sign Name Print Name/ Affiliation Date
State Representative (DEQ/FWP)

P Lee Pete Lee / Polaris 9/2/11
Sign Name Print Name/ Affiliation Date
RP Representative (SCAT RP Representative)

Once all applicable SCAT Segments (i.e. LB, RB, and IS) within a particular SCAT Area (i.e. A21) have been successfully signed-off during a formal SCAT Assessment, the SCAT Area will achieve the Response Endpoints and an Area Transition Report will be completed and submitted to EPA and DEQ.

¹ A Segment Sign-Off Assessment is considered complete when all accessible lands that have not already been signed-off by a claims liaison have been surveyed. If any previous SCAT Assessments were conducted, all lands that were originally recommended for treatment must be re-surveyed in the Sign-Off Assessment. If the conducted survey does not meet these conditions it is considered a Partial Assessment. Multiple Partial Assessments that meet the conditions of a Complete Assessment may together constitute a Complete Sign-Off Assessment.

SCAT SEGMENT OPERATIONS COMPLETION SIGN-OFF SHEET

SILVERTIP PIPELINE RELEASE

Segment B30 RB

Date of Survey 28/08/2011

Dates of Initial SCAT Assessments _____

(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment

37

Segment has been treated by Operations or an Operations Hotshot Team

YES

NO

No Access to Doug Medina property

Segment Assessment Complete¹

Partial Segment Assessment

CK 7/31/11

The undersigned are in agreement that the above segment or partial segment meets the Approved Treatment Methods Target Endpoints.

This Segment is Conditionally Approved

(See attached Post Inspection Survey Transmittal (POST))

The undersigned are in agreement that the above segment meets the Approved Treatment Methods Target Endpoints conditional upon completion of the treatment identified in the attached Post Inspection Survey Transmittal (POST).

[Signature] Lance Reisman 8/28/11
Sign Name Print Name/ Affiliation Date
Federal Representative (EPA/USCG)

Donnie McCurry Donnie McCurry DEQ 28/08/2011
Sign Name Print Name/ Affiliation Date
State Representative (DEQ/FWP)

[Signature] Herlo GAVUREAN, POLARIS 28/08/2011
Sign Name Print Name/ Affiliation Date
RP Representative (SCAT RP Representative)

Once all applicable SCAT Segments (i.e. LB, RB, and IS) within a particular SCAT Area (i.e. A21) have been successfully signed-off during a formal SCAT Assessment, the SCAT Area will achieve the Response Endpoints and an Area Transition Report will be completed and submitted to EPA and DEQ.

¹ A Segment Sign-Off Assessment is considered complete when all accessible lands that have not already been signed-off by a claims liaison have been surveyed. If any previous SCAT Assessments were conducted, all lands that were originally recommended for treatment must be re-surveyed in the Sign-Off Assessment. If the conducted survey does not meet these conditions it is considered a Partial Assessment. Multiple Partial Assessments that meet the conditions of a Complete Assessment may together constitute a Complete Sign-Off Assessment.