

ExxonMobil Pipeline Company

**SCAT Area Transition Report
for B29**

Silvertip Pipeline Incident
Laurel, Montana

October 29, 2011



SCAT Area Transition Report for B29

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Laurel, Montana

Prepared for:
ExxonMobil Pipeline Company

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Our Ref.:
B0085883.1103

Date:
October 29, 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.

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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 B29, 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 B29. 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 B29, 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 this area is 42.2. No access was granted for the eastern portion of the right bank in Area B29.

1.2 Cultural, Historic, and Natural Resource Constraints

No historic properties or cultural resources have been identified within this segment 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 B29. No oiled wildlife was observed or recovered. No Wildlife Priority Cleanup Areas were identified. Two bird nests (unknown species) were identified in Area B29.

1.3 Summary of Environmental Sampling

Table 1 (below) summarizes samples collected within Area B29. 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 B29 are provided on Figure 3.

Table 1 Environmental Sampling Summary

Agency	Sample Num	Date	Matrix	Location	Latitude	Longitude
CTEH	BIMT081750517	17-Aug-11	Soil_River	50-B29	45.738705	-108.525659
EPA	SP50126001_071511	15-Jul-11	Soil_Surface	SP50126	45.736362	-108.527956

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, one exceedance is shown for vanadium.

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 B29 are included in Appendix B. Figure 4 provides the maximum oiling zones observed by the SCAT team during the initial surveys of Area B29.

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 B29 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 (PPE), plastic, trash, super sacks, wood chips, and contaminated wood.

1.7 Pre-Inspection Survey Transmittal

A Pre-Inspection Survey Transmittal (PIST) was not conducted for this segment.

1.8 Post-Inspection Survey Transmittal

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

1.9 Summary of Final SCAT Surveys

Figure 5 shows the oiling conditions within Area B29 following completion of oil removal activities. The SCAT team performed final surveys on the left and right banks within SCAT Area B29 to confirm the agreed-upon cleanup endpoints identified in the applicable CTRs had been achieved. The final SCAT survey forms are presented in Appendix E.

1.10 SCAT Area Conclusions

Based on the SCAT surveys performed on the left and right banks within Area B29, no further treatment is recommended for these segments. The SCAT Segment Sign-Off Forms are included as Appendix F.

2. Transition Sign-Off Form

SCAT Area Transition Report for B29

Prepared for:

Unified Command

Date

Unified Command – RP



**SCAT Area Transition
Report for B29**

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SCAT Area Transition Report for B29

Prepared for:

Unified Command

Date

Unified Command – FOSC



**SCAT Area Transition
Report for B29**

Silvertip Pipeline Incident
Laurel, Montana

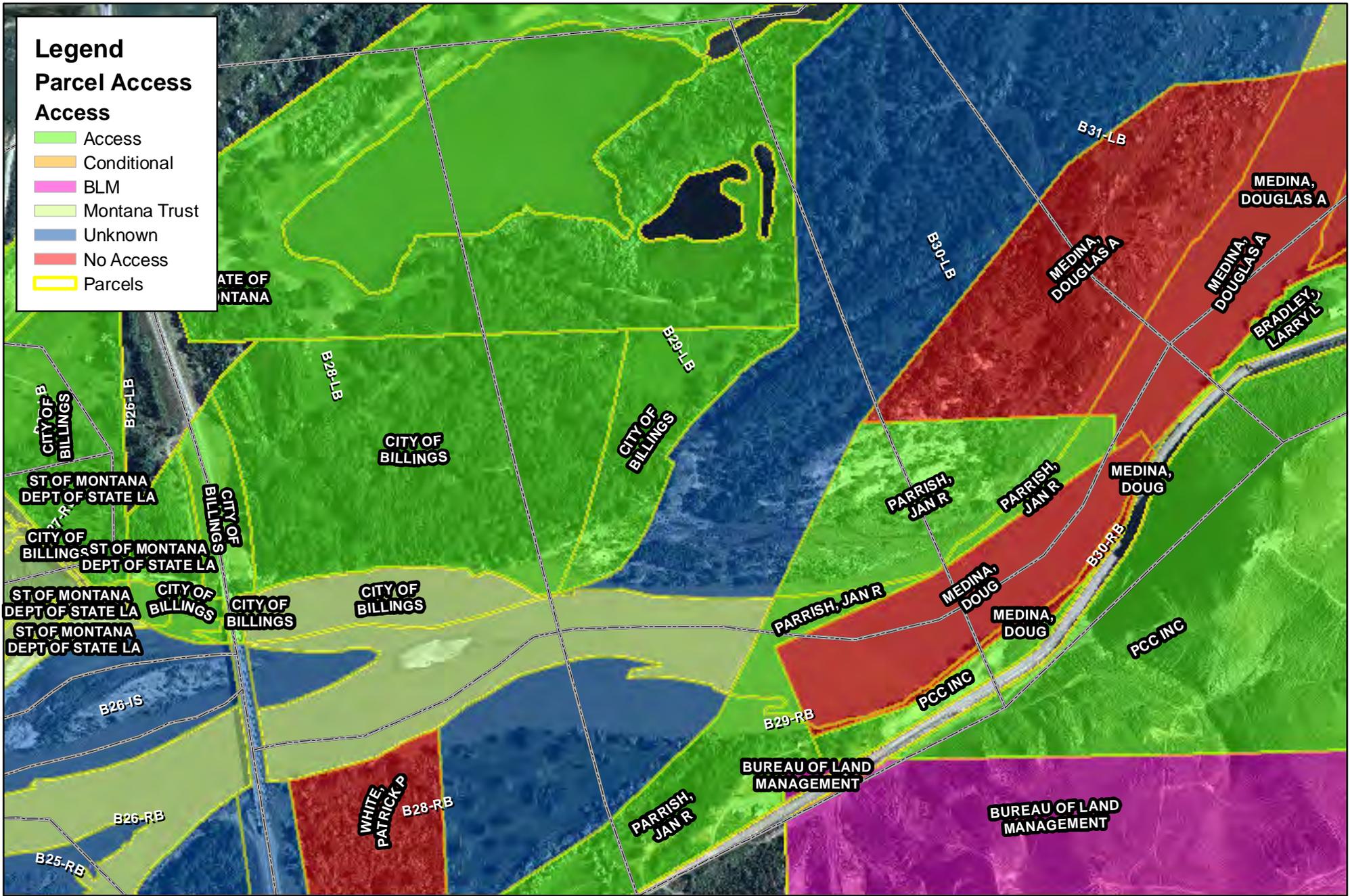
SCAT Area Transition Report for B29

Prepared for:

Unified Command

Date

Unified Command – MDEQ



Legend

Parcel Access

Access

- Access
- Conditional
- BLM
- Montana Trust
- Unknown
- No Access
- Parcels

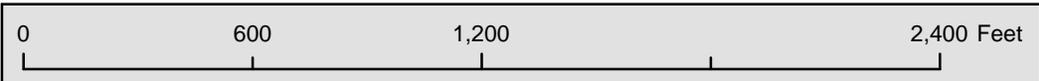


Figure 1

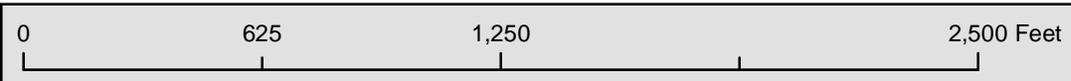
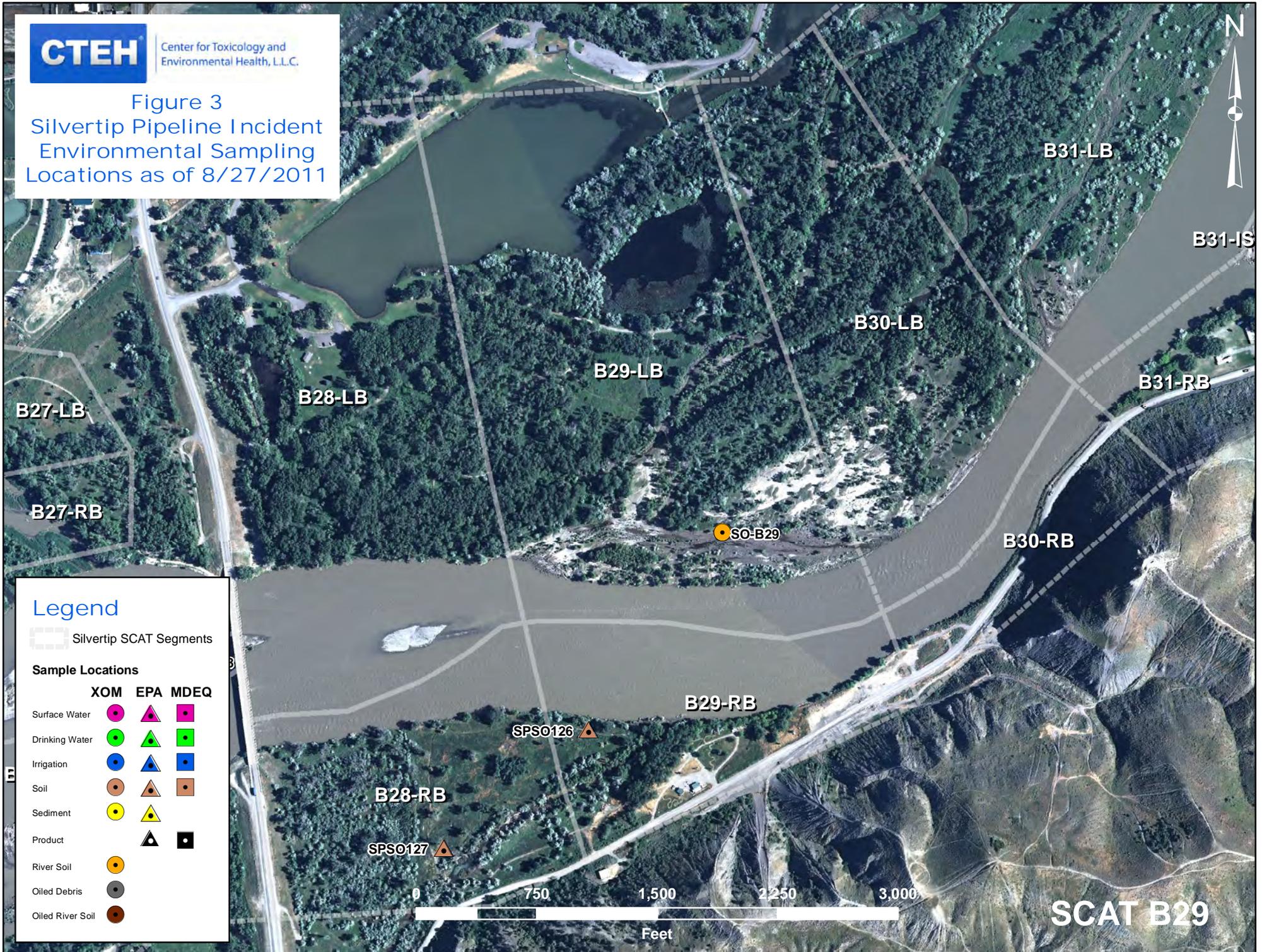


Figure 2
Wildlife Resources



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

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



Legend

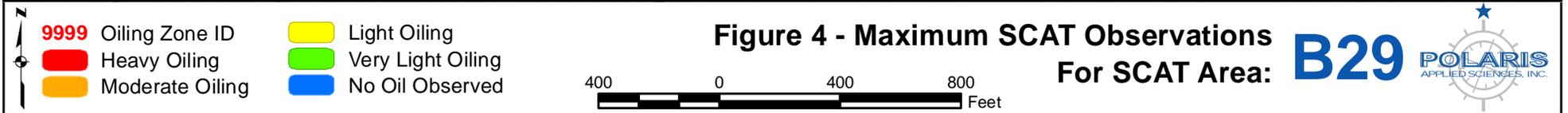
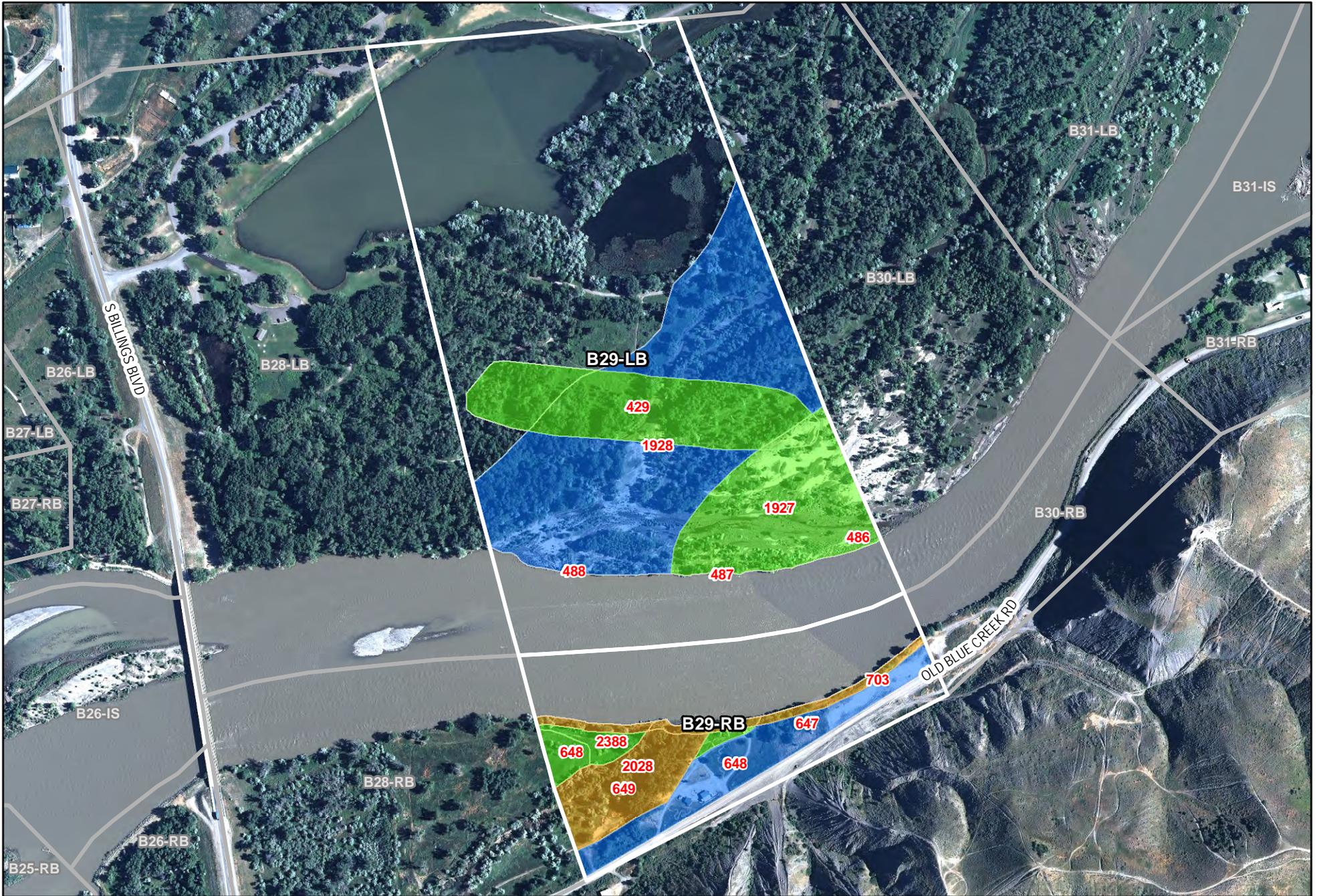
Silvertip SCAT Segments

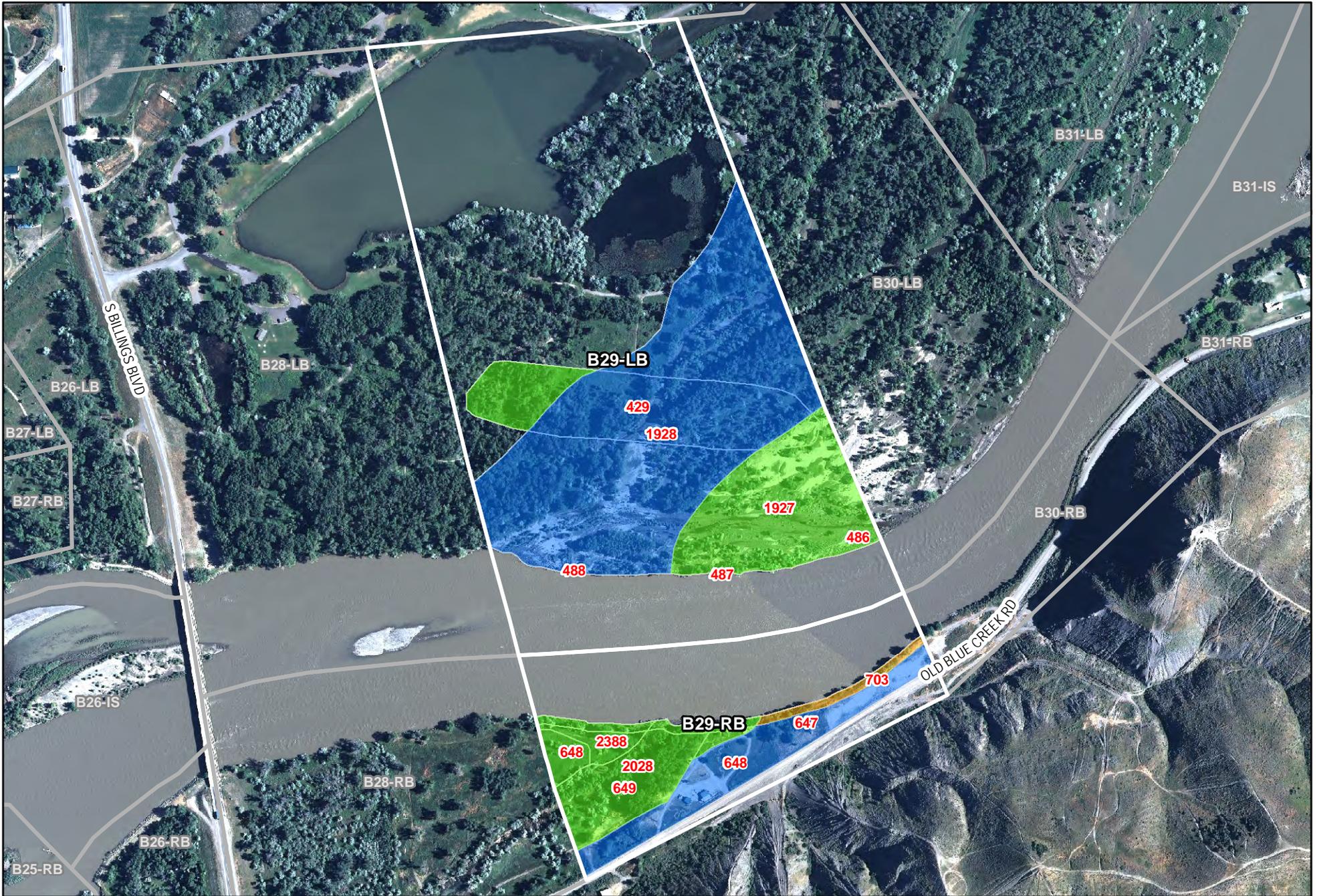
Sample Locations

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



SCAT B29





 <p>9999 Oiling Zone ID</p> <p> Heavy Oiling</p> <p> Moderate Oiling</p>	<p> Light Oiling</p> <p> Very Light Oiling</p> <p> No Oil Observed</p>	<p>Figure 5 - Final SCAT Observations</p> <p>For SCAT Area: B29</p> <p></p>
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400 0 400 800
Feet



Appendix A

Sample Detections Summary



Detections in Samples Collected in SCAT Area B29

Printed 9/13/2011

NA - Not Available

Detected Above Screening Level

Sample Num	Date	Sample Type	Matrix	Analytical Method	Analyte	Detected	Result	Screening Level	Result Qualifier	Units	Above?
BIMT0817SO517	17-Aug-11	Field	Soil_River	EPA 6010	Arsenic	Y	21.3	40		mg/kg	no
BIMT0817SO517	17-Aug-11	Field	Soil_River	EPA 6010	Barium	Y	147	820		mg/kg	no
BIMT0817SO517	17-Aug-11	Field	Soil_River	EPA 6010	Cadmium	Y	1.4	3.8		mg/kg	no
BIMT0817SO517	17-Aug-11	Field	Soil_River	EPA 6010	Chromium	Y	27.5	280		mg/kg	no
BIMT0817SO517	17-Aug-11	Field	Soil_River	EPA 6010	Lead	Y	9.5	400		mg/kg	no
BIMT0817SO517	17-Aug-11	Field	Soil_River	EPA 6010	Nickel	Y	17	150		mg/kg	no
BIMT0817SO517	17-Aug-11	Field	Soil_River	EPA 6010	Vanadium	Y	54.2	39		mg/kg	YES
BIMT0817SO517	17-Aug-11	Field	Soil_River	EPA 9060	Mean Total Organic Carbon	Y	4540	NA		mg/kg	no
BIMT0817SO517	17-Aug-11	Field	Soil_River	EPA 9060	RSD%	Y	32.8	NA		%	no
BIMT0817SO517	17-Aug-11	Field	Soil_River	EPA 9060	Total Organic Carbon	Y	6760	NA		mg/kg	no
SPSO126D01_071	15-Jul-11	Field	Soil_Surface	MADEP EPH	Total Extractable	Y	79.7	200		mg/kg	no



Appendix B

Initial SCAT Survey Forms
and Sketches

D13/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>B29</u>	Left Bank / <u>Right Bank</u> / Island	19 / 07 / 11	1022 hrs to 1023 hrs	low - mean / <u>bankfull</u> / overbank
Operations Division: B				<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 475 m Segment/Reach Length Surveyed 475 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) rocky 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 _____ meander X confined or leveed _____ Substrate Type: mixed

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 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 Access: Direct from backshore Y / N Alongshore from next segment Y / N

Debris Y / N oiled Y / N amount 150 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
A				<u>X</u>	<u>475</u>		<u>30</u>			<u>S</u>	<u>P</u>		<u>✓</u>								<u>veg bank</u>

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

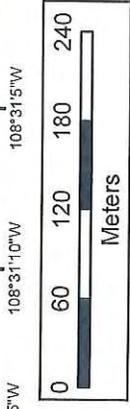
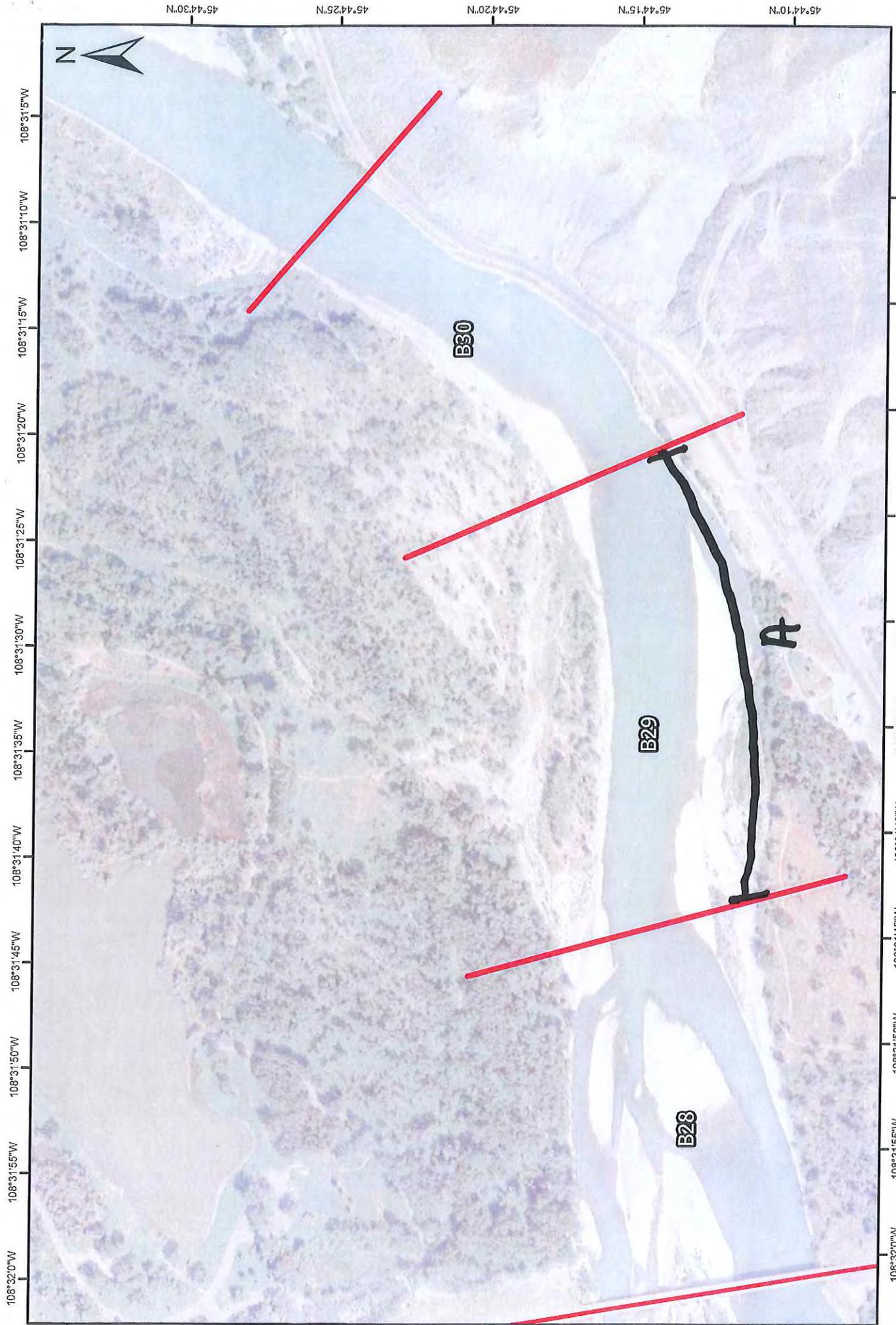
TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER					WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)
	MS	LB	UB	OB			SAP	OP	PP	OR	OF				

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

OSR = u 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 # 5121 Frames 5135) Video Tape Yes/No (tape #)



COMMENTS:

DATE:

TEAM:

B29 -
(L/R/I)??

108°32'0"W 108°31'55"W 108°31'50"W 108°31'45"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°31'5"W

45°44'10"N 45°44'15"N 45°44'20"N 45°44'25"N 45°44'30"N



B30

B29

A

B28

DB/G/S

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION

Segment/Reach ID: B29 Left Bank / Right Bank / Island

Date (dd/mm/yy) 22/07/11 Time (24h): std / daylight 14:00 hrs to 15:30 hrs

Operations Division: _____

Survey by: (Foot) / ATV / Boat / Helicopter / Overlook / _____ Sun / (Clouds) / Fog / Rain / Snow / Windy / Calm

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

Air Temp +/- 22 deg C

2 SURVEY TEAM # 4

name	organization	contact phone number
<u>John Matousek</u>	<u>Cardano ENTRIX</u>	<u>989 272 2507</u>
<u>Gary Riley</u>	<u>EPA</u>	<u>415 215 0690</u>
<u>Courtney Tyne</u>	<u>FWP</u>	<u>406 860 7814</u>
<u>Justin [unclear]</u>	<u>FWP</u>	<u>406 697 3442</u>

3 SEGMENT Total Segment/Reach Length 471 m Segment/Reach Length Surveyed 471 m

Start GPS: LATITUDE 45 deg. 44.191 min. LONGITUDE 108 deg. 31.725 min. Datum: WGS84

End GPS: LATITUDE 45 deg. 44.246 min. LONGITUDE 108 deg. 31.372 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 P 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

Cliff or Bluff: Est Height _____ m canyon _____ manmade _____ meander P confined or leveed _____ Substrate Type: (Veg)

Sloped: (>5°)(15°)(30°) straight _____ 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 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 (N) Alongshore from next segment Y / N _____

Debris (Y) / N oiled (Y) / N amount _____ bags or _____ trucks access restrictions Access by private property

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	
<u>647</u> A		<u>S</u>		<u>P</u>	<u>461</u>	<u>10</u>	<u>30</u>			<u>P</u>	<u>S</u>						<u>P</u>					<u>Veg</u>
B				P	450	410	30											No				Veg
<u>649</u> C				<u>P</u>	<u>150</u>	<u>40</u>	<u>30</u>			<u>P</u>	<u>S</u>						<u>P</u>					<u>Veg</u>
<u>648</u> B		<u>S</u>		<u>P</u>	<u>378</u>	<u>67</u>	<u>0</u>			P	S						P			<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

additional survey required (P) additional survey complete (P) shoreline survey complete (Y)

Zone A - Recommend Vegetation cut + removal along shoreline

Zone B - No oil

Zone C - slough area with edges inundated with water oil. Recommend cut of vegetation and removal along edge of slough

(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# _____)

DB/GS

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION
 Segment/Reach ID: B29 Left Bank / Right Bank / Island
 Date (dd/mm/yy) 22/07/11 Time (24h): std / daylight 14:00 hrs to 15:30 hrs
 Water Level (falling) - steady - rising
 Operations Division: _____
 Survey by: (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>Johanna Matousek</u>	<u>Carleod ENTRIX</u>	<u>989 272 2507</u>
<u>Gary Riley</u>	<u>EPA</u>	<u>415 215 0690</u>
<u>Caroline Tami</u>	<u>FWP</u>	<u>406 860 7814</u>
<u>Justin Makkola</u>	<u>FWP</u>	<u>406 697 3442</u>

3 SEGMENT Total Segment/Reach Length 471 m Segment/Reach Length Surveyed 471 m
 Start GPS: LATITUDE 45 deg. 44.191 min. LONGITUDE 108 deg. 31.725 min. Datum: WGS84
 End GPS: LATITUDE 45 deg. 44.244 min. LONGITUDE 108 deg. 31.372 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 P 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: (P)
 Sloped: (>5°)(15°)(30°) straight _____ 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 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 / (near) / 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 Access by private property
 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 zones that correspond to primary shoreline type

647
644
648

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		S		P	461	10	30			P	S						P					Vel		
B				P	450	140	30															Non		
C				P	150	40	30			P	S						P					Vel		
B				P	320	100	0															Non		

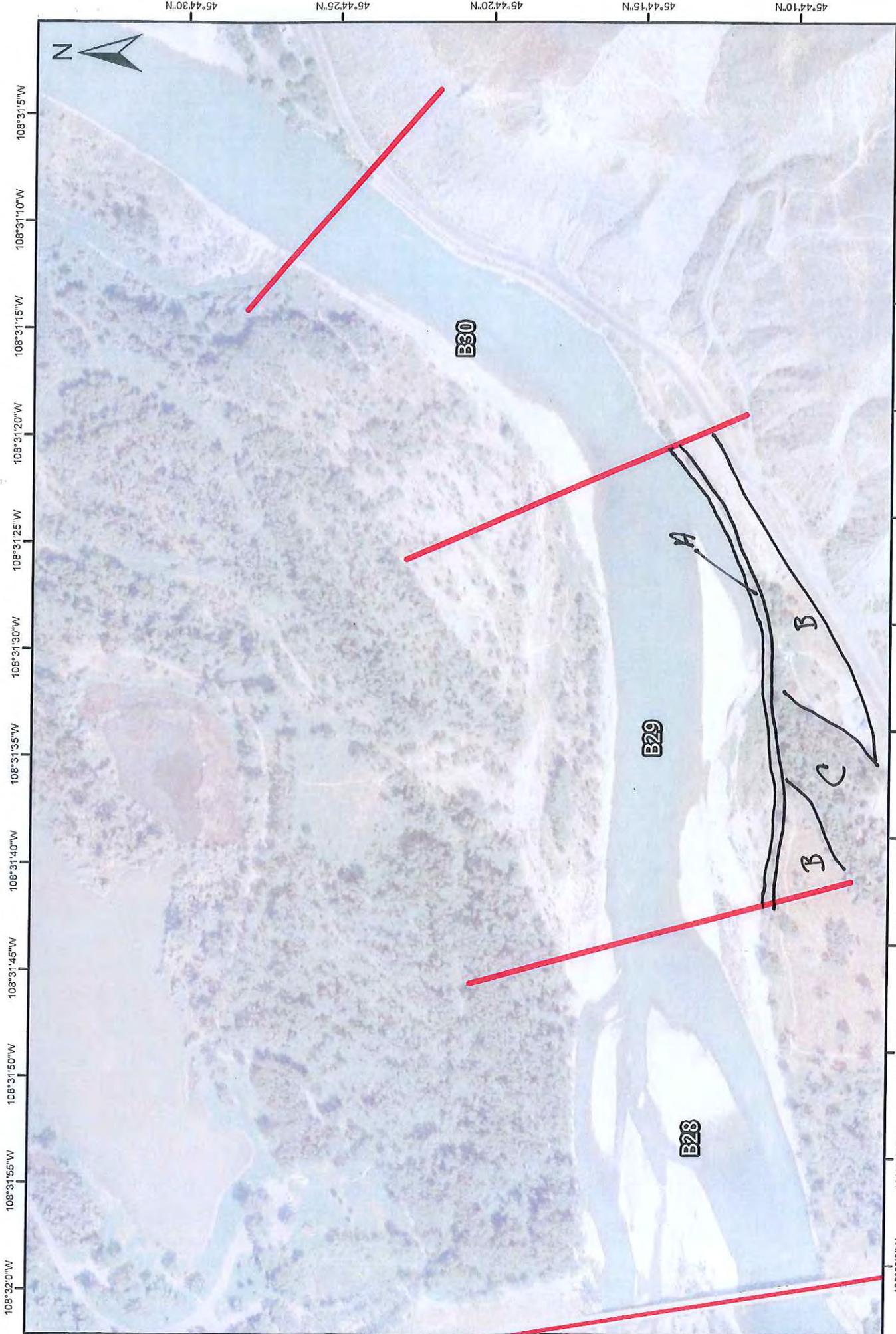
7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench - e.g., "A1"

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

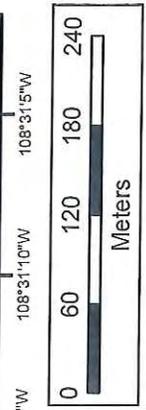
overbank survey required (P) overbank survey complete (P) shoreline survey complete (P)
 Zone A - Recommend Vegetation cut + Removal along shoreline
 Zone B - No oil
 Zone C - slough area with edges inundated with coat oil.
 Recommend cut of vegetation and removal along edge of slough

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



108°32'0"W 108°31'55"W 108°31'50"W 108°31'45"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°31'5"W

45°44'30"N 45°44'25"N 45°44'20"N 45°44'15"N 45°44'10"N



108°32'0"W 108°31'55"W 108°31'50"W 108°31'45"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°31'5"W

COMMENTS:

DATE:

TEAM:

B29 -
(L/R/I)??

DB16

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 19-Jul-2011	Time (24h): std / daylight 1021 hrs to 1023 hrs	Water Level low - mean - <u>bankfull</u> - overbank falling - steady - rising
Segment/Reach ID: B29 <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>PLC</u>	Polaris	
Larry Alheim		MTDEQ	
Andy Johnson	<u>Austin West</u>	USCG	<u>[Signature]</u>

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 467 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 120m 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

OIL ZONE	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER					SUBST. TYPE(S)				
	MS	LB	UB	OB	Length	Width	Distrib.	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC		SR	AP	NO	
A				X	112	1															X	Grass, trees, debris
B				X	205	1	100			X	X			X								Grass, trees, debris
C				X	150	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	OILED ZONE	SUBSURFACE OIL CHARACTER						WATER TABLE	SHEEN COLOUR	CLEAN BELOW	SUBST. TYPE(S)
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR				
					cm	cm-cm							cm	B, R, S, N	Yes / No	

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

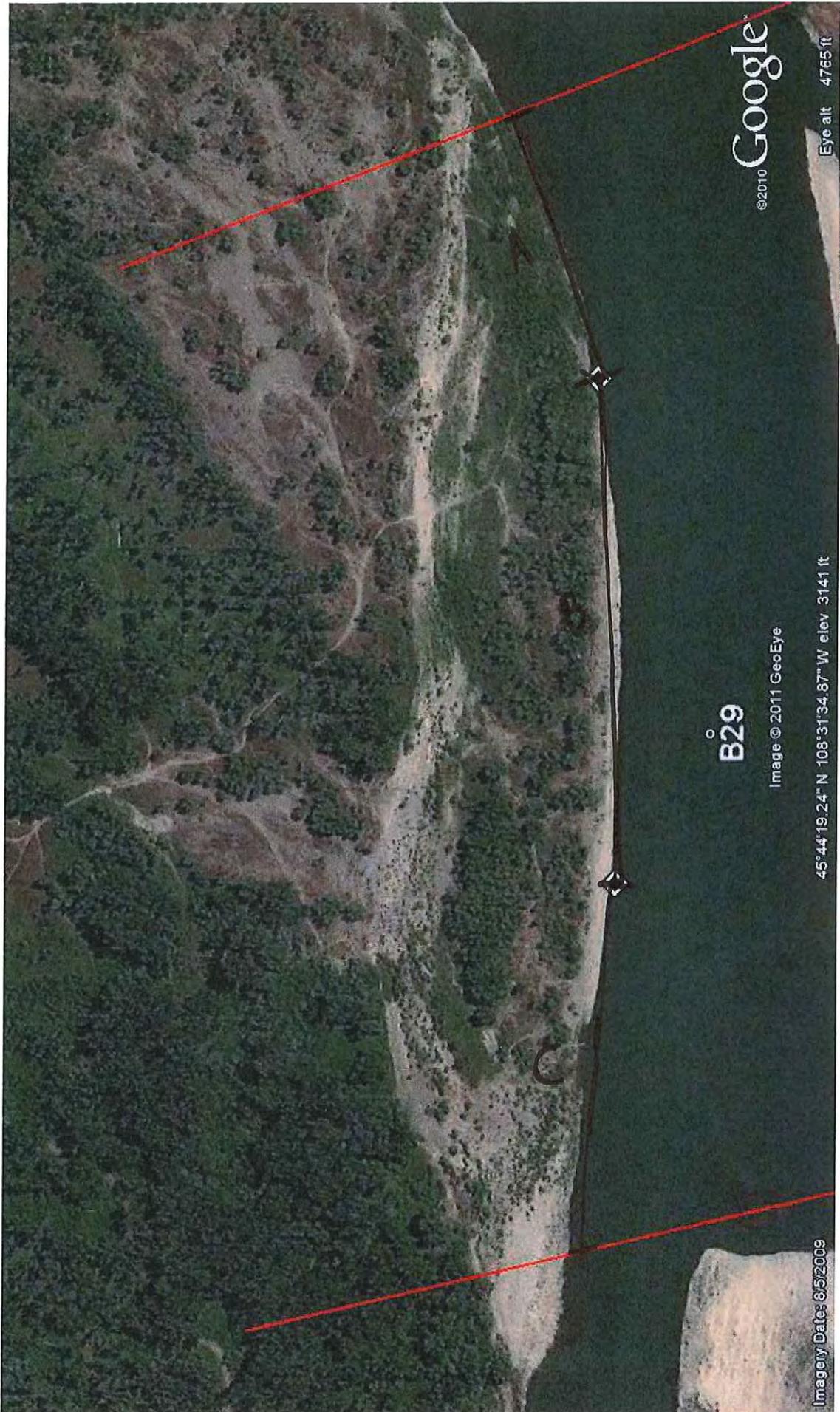
Overbank Survey Required Y/N Overbank Survey Completed Y/N Shoreline Survey Completed Y/N

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 1156-1163 (Lee)



©2010 Google

Eye alt 4765 ft

B29

Image © 2011 GeoEye

45°44'19.24" N 108°31'34.87" W elev 3141 ft

Imagery Date: 6/5/2009

RIVER BANK OILING SUMMARY FORM for DBIG Silvertip Pipeline Incident

1 GENERAL INFORMATION

Segment/Reach ID: 29 B Left Bank / Right Bank / Island

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

Time (24h): std / daylight 1157 hrs to 12:35 hrs

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

Operations Division: _____

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

Sun / Clouds / Fog / Rain / Snow / Windy / Calm

Air Temp +/- 28 deg C

2 SURVEY TEAM # 2

name	organization	contact phone number
<u>Chuck Pons</u>	<u>Coastal ENTRIX</u>	<u>813-927-1154</u>
<u>Ed Riely</u>	<u>MDEQ</u>	<u>406-461-3386</u>
<u>Petrick Krister</u>	<u>USCG</u>	<u>415-320-5748</u>

3 SEGMENT

Total Segment/Reach Length 900 m Segment/Reach Length Surveyed 400 m

Start GPS: LATITUDE 45 deg. 44.366 min. LONGITUDE 108 deg. 31.3765 min. Datum: NAD83

End GPS: LATITUDE 45 deg. 44.435 min. LONGITUDE 108 deg. 31.491 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: X 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 ✓ 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 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 10 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										SUBST. TYPE(S)					
	MS	LB	UB	OB	Length m	Width m	Distrib. %	TO	CV	CT	ST	FL	FR	OIL CHARACTER									
														MS	TB	PT	TC		SR	AP	NO		
<u>429</u> A				<u>✓</u>	<u>400</u>	<u>180</u>	<u><1</u>				<u>S</u>	<u>P</u>											<u>Sand & silt</u>

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

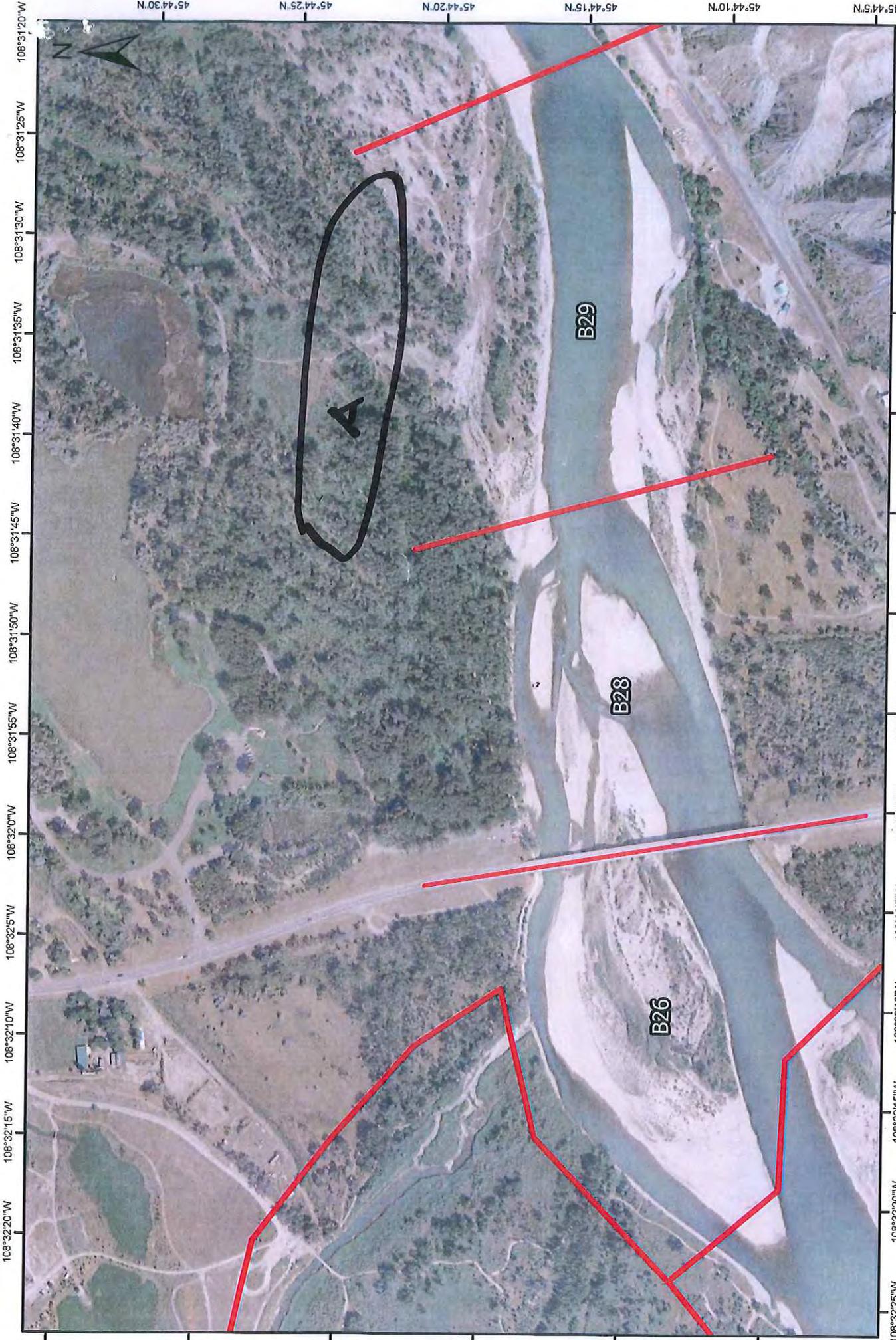
TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER								WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)					
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR	NO										

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

Zone - Small debris areas with coated oil. Few shrubs ground with skins and coat
 Debris needs to be bagged and removed and veg needs to be cut and or treated
 and removed.

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

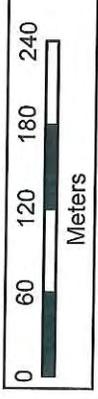
Sketch Yes/No Photos Yes/No (Roll # _____ Frames _____) Video Tape Yes/No (tape# _____)



B28 -
 29 (L/R/I)??

DATE:
 TEAM:

COMMENTS:





Appendix C

Pre-Inspection Survey Transmittal

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



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

Page _____ of _____

1 GENERAL INFORMATION		Date (dd/mm/yy) <u>1-9-11</u>	Time (24h): std / daylight <u>1255</u> hrs to <u>1700</u> hrs	Water Level low - mean - bankfull - overbank falling - steady - rising
Segment/Reach ID: <u>B29</u> Left Bank / Right Bank / Island		Operations Division:		
Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook / _____		Sun / <u>Clouds</u> / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>20</u> deg C

2 SURVEY TEAM # <u>3</u>	Name	Organization	Signature
	<u>Chuck Pans</u>	<u>Cardno ENTRIX</u>	<u>Chuck Pans</u>
	<u>TERRY TANNER</u>	<u>U.S. EPA</u>	<u>Terry Tanner</u>
	<u>Mark Anderson</u>	<u>DEQ</u>	<u>Mark Anderson</u>

3 SEGMENT Total Segment/Reach Length 490 m Segment/Reach Length Surveyed 250 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 S Boulder _____ Peal/Organic _____ Vegetated Bank: S 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: Sand

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

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m >100m 160m 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	Width	Distrib.	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR	AP		NO	
					m	m	%															
A				<u>Y</u>	<u>250</u>	<u>165</u>	<u><1</u>				<u>P</u>						<u>P</u>					<u>Sand</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

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

Zone A has clays of silt Vg + debris

No further Treatment

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

9/1/2011 5:33 pm

B29 R
T-3 9-1-11 A

006 003

B29-RB

W108°31'45.12"

ACTIVE LOG 006

ACTIVE LOG 005

© 2011 Google

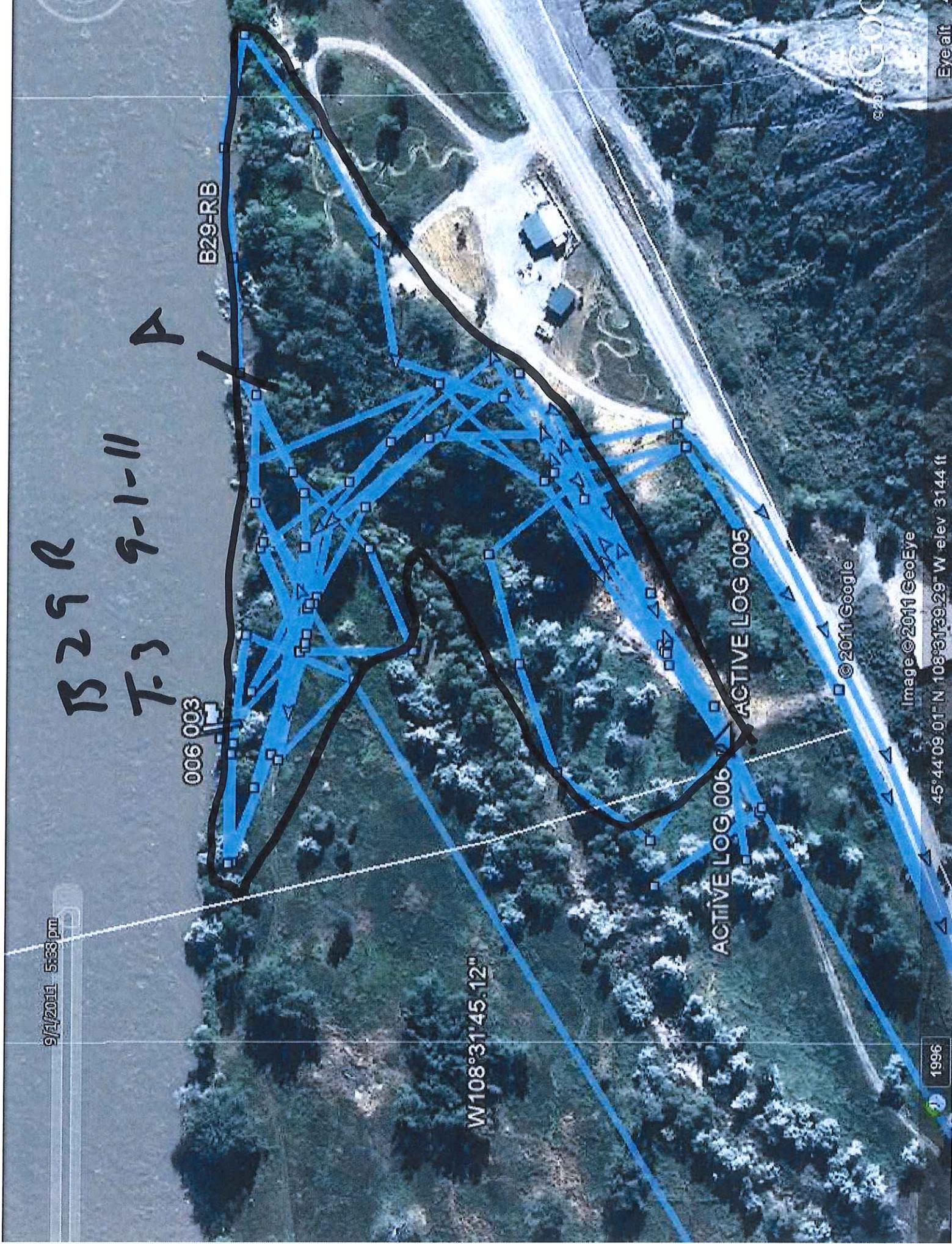
Image © 2011 GeoEye

45°44'09.01" N 108°31'39.29" W elev 3144 ft

1996

Eye alt

© 2011 GeoEye



DB/G

1 GENERAL INFORMATION		Date (dd/mm/yy)	Time (24h): std / daylight	Water Level
Segment/Reach ID: <u>B29</u>	Left Bank / Right Bank / Island	<u>25/09/11</u>	<u>1200</u> hrs to <u>1300</u> hrs	low - <u>mean</u> bankfull - overbank
Operations Division: <u>B</u>				<u>falling</u> steady - rising
Survey by: <u>Foot</u> / ATV / <u>Boat</u> / Helicopter / Overlook /		<u>Sun</u> Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>28</u> deg C

2 SURVEY TEAM # <u>1</u>	Name	Organization	Signature
	<u>Todd Farrar</u>	<u>Polaris</u>	<u>[Signature]</u>
	<u>Sheila McAtee</u>	<u>DNRC</u>	<u>[Signature]</u>

3 SEGMENT Total Segment/Reach Length 140 m Segment/Reach Length Surveyed 140 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 _____ 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 _____ meander _____ confined or leveed _____ Substrate Type: Silt

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

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m 100m 160m est. water depth: <1m 1-3m 3-10m >10m _____ m

shoal(s) present N point bar present 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 N Access: Direct from backshore N Alongshore from next segment N

Debris: N oiled N amount 1 bags or _____ trucks access restrictions

Oiled trees/shrubs N River Current strong 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				<u>K</u>	<u>140</u>	<u>120</u>	<u>C1</u>			<u>S</u>	<u>P</u>						<u>P</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

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

Sporadic stain with occasional coat on vegetation.
Hot shot crew removed or treated oiled material
No further treatment required (NFT)

9/25/2011 4:24 PM

B28-LB

B29-LB

B30-LB

TEAM 7
SEPT 25, 2011
B-29 RB

B30-RB

NFI

Zone A

B29-RB

B28-RB

© 2011 Google

Image © 2011 GeoEye

© 2011 Europa Technologies

45°44'16.18" N 108°31'33.98" W elev 3144 ft

8/5/2009

1996

©2010 Google

Eye alt

DB16

R

1 GENERAL INFORMATION		Date (28/08/11)	Time (24h): std / daylight	Water Level
Segment/Reach ID: B29 <u>Left Bank</u> / Right Bank / Island				low - mean - bankfull - overbank
Operations Division: B			1230 hrs to 1400 hrs	falling - steady - rising
Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook /		<u>Sun</u> / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>2.8</u> deg C
2 SURVEY TEAM # 1	Name	Organization	Signature	
	Josh Hofkes	Cardno ENTRIX		
	Merlo Gauvreau	Polaris		
	Stephen Ball	EPA		
	Donnie McCurry	DER		
	Lance Richman	EPA		

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 442 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 S Pebble/Cobble P Boulder _____ Peat/Organic _____ 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 _____ confined or leveed _____ Substrate Type: _____

Sloped: _____ (>5°)(15°)(30°) straight _____ braided S oxbow _____ 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 / near / 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	
1927 1928 A				X	220	180	41			X	X							X				sand/cobble
B				X	442	170														X		rock

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 1 bag oil veg

A: N.F.T.
B: N.F.T.

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



TEAM 1
B 29 LB
August 28, 2011

A: Less than 1%.
B: N.O.O.



Appendix F

Completed SCAT Segment
Sign-Off Forms

SCAT SEGMENT OPERATIONS COMPLETION SIGN-OFF SHEET

SILVERTIP PIPELINE RELEASE

Segment B29R Date of Survey 9-1-11

Dates of Initial SCAT Assessments 19 JUL 11 DL
(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

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).

[Signature] TERRY TANNER / U.S. EPA 9-1-11
Sign Name Print Name/ Affiliation Date
Federal Representative (EPA/USCG)

[Signature] Mark Peterson / DEQ 9-1-11
Sign Name Print Name/ Affiliation Date
State Representative (DEQ/FWP)

[Signature] Charles Pons / Cardno ENTRIX 9-1-11
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 B-29 RB

Date of Survey Sept. 25, 2011

Dates of Initial SCAT Assessments

19 Jul 2011 (D)
(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

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).

No Federal Rep Present

Sign Name _____ Print Name/ Affiliation _____ Date _____
Federal Representative (EPA/USCG)

Sheila McAtee Sheila McAtee / DVR 9/25/2011
Sign Name _____ Print Name/ Affiliation _____ Date _____
State Representative (DEQ/FWP)

Todd Ferrar Todd Ferrar / Polaris 9/25/11
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 B29 LB

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

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).



Lance Robman

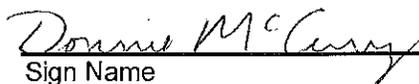
28/8/11

Sign Name

Print Name/ Affiliation

Date

Federal Representative (EPA/USCG)



Donnie McCurry DEQ

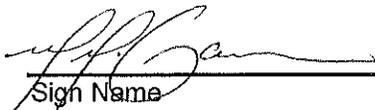
28/08/2011

Sign Name

Print Name/ Affiliation

Date

State Representative (DEQ/FWP)



Hesto Gauthreau, 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.