

ExxonMobil Pipeline Company

**SCAT Area Transition Report
for B24**

Silvertip Pipeline Incident
Laurel, Montana

October 27, 2011



SCAT Area Transition Report for B24

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Laurel, Montana

Prepared for:
ExxonMobil Pipeline Company

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Date:
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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 B24, 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 B24. 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 B24, 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 B24 is 76.4. There were no access issues for the island, left bank, 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 B24. One deceased lightly oiled deer (*Odocoileus sp.*) was identified and retained. Two moderately oiled pheasants (*Phasianus colchicus*) were observed but not captured for cleaning. A deceased ring-billed gull (*Larus delawarensis*) with no visible oiling was identified and retained. No Wildlife Priority Cleanup Areas were identified. No active migratory bird nests were identified in Area B24.

1.3 Summary of Environmental Sampling

Table 1 (below) summarizes samples collected within Area B24. 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 B24 are provided on Figure 3.

Table 1 Environmental Sampling Summary

Agency	Sample Num	Date	Matrix	Location	Latitude	Longitude
MDEQ	B11070821-015	09-Jul-11	Soil_Surface	5T-M5-01	45.73079	-108.54409
MDEQ	B11070821-016	09-Jul-11	Soil_Surface	5T-M5-01	45.73079	-108.54409
MDEQ	B11070821-017	09-Jul-11	Soil_Surface	5T-M5-01	45.73079	-108.54409
MDEQ	B11070821-018	09-Jul-11	Soil_Surface	5T-M5-01	45.73079	-108.54409
MDEQ	B11070821-019	09-Jul-11	Soil_Surface	5T-M5-01	45.73079	-108.54409
MDEQ	B11070821-020	09-Jul-11	Soil_Surface	5T-M5-01	45.73079	-108.54409
MDEQ	B11070821-021	09-Jul-11	Soil_Surface	5T-M5-01	45.73079	-108.54409
MDEQ	B11070821-022	09-Jul-11	Soil_Surface	5T-M5-01	45.73079	-108.54409
MDEQ	B11070821-023	09-Jul-11	Soil_Surface	5T-M5-01	45.73079	-108.54409
MDEQ	B11070821-024	09-Jul-11	Soil_Surface	5T-M5-01	45.73079	-108.54409
MDEQ	B11070821-025	09-Jul-11	Soil_Surface	5T-M5-01	45.73079	-108.54409
MDEQ	B11070821-026	09-Jul-11	Soil_Surface	5T-M5-01	45.73079	-108.54409
MDEQ	B11070821-027	09-Jul-11	Soil_Surface	5T-M5-01	45.73079	-108.54409
MDEQ	5T-071611-M51	16-Jul-11	Soil_Surface	5T-M5-01	45.73079	-108.54409
MDEQ	5T-071611-M52	16-Jul-11	Soil_Surface	5T-M5-02	45.73136	-108.5446
EPA	5P50137D01_071611	16-Jul-11	Soil_Surface	5P50137	45.7307678	-108.5458927
EPA	5P50138D01_071611	16-Jul-11	Soil_Surface	5P50138	45.7317281	-108.5437031

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 detections for Area B24.

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 B24 are included in Appendix B. Figure 4 provides the maximum oiling zones observed by the SCAT team during the initial surveys of Area B24.

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. 22](#) and [CTR No. 35](#)).

1.6 Oil Removal Activities

Oil removal activities were conducted within Area B24 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

SCAT Operations liaisons performed an inspection of the remediated areas of SCAT Area B24 and developed a Pre-Inspection Survey Transmittal (PIST) associated with the left bank(s) within Area B24, which is presented in Appendix C.

1.8 Post-Inspection Survey Transmittal

SCAT Operations liaison performed an inspection of the remediated areas of SCAT Area B24 and developed a Post-Inspection Survey Transmittal (POST) associated with the right bank(s) within Area B24, which is presented in Appendix D.

1.9 Summary of Final SCAT Surveys

Figure 5 shows the oiling conditions within Area B24 following completion of oil removal activities. The SCAT team performed final surveys of the island, left bank, and right bank within SCAT Area B24 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 island and left bank within Area B24, no further treatment is recommended. The final SCAT survey indicates that the right bank conditionally passes final SCAT and, in conjunction with the signed POST, no further treatment is recommended. SCAT Segment Sign-Off Forms are included as Appendix F.



**SCAT Area Transition
Report for B24**

Silvertip Pipeline Incident
Laurel, Montana

2. Transition Sign-Off Form

SCAT Area Transition Report for B24

Prepared for:

Unified Command

Date

Unified Command – RP



**SCAT Area Transition
Report for B24**

Silvertip Pipeline Incident
Laurel, Montana

SCAT Area Transition Report for B24

Prepared for:

Unified Command

Date

Unified Command – FOSC



**SCAT Area Transition
Report for B24**

Silvertip Pipeline Incident
Laurel, Montana

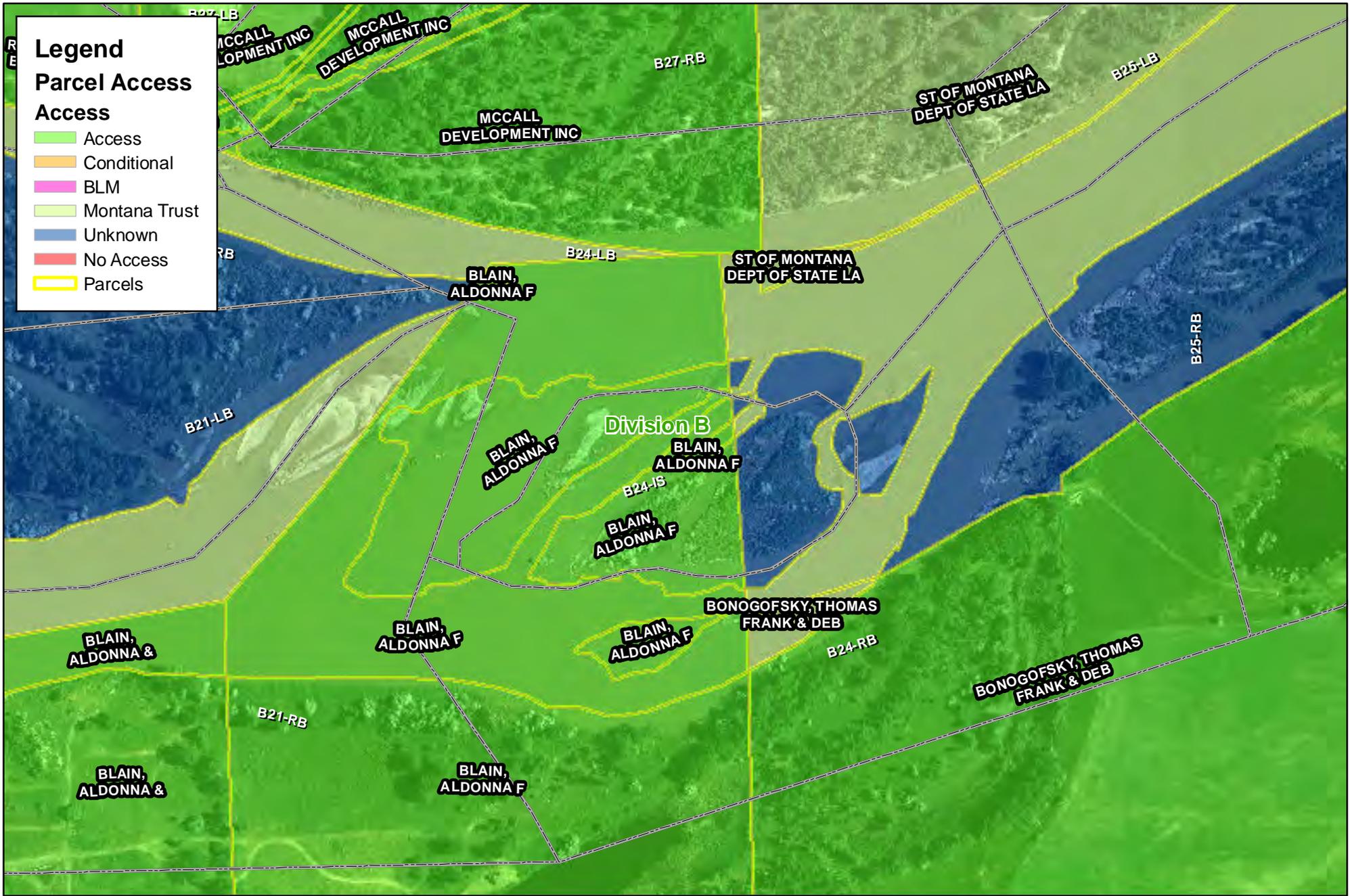
SCAT Area Transition Report for B24

Prepared for:

Unified Command

Date

Unified Command – MDEQ



Legend

Parcel Access

Access

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

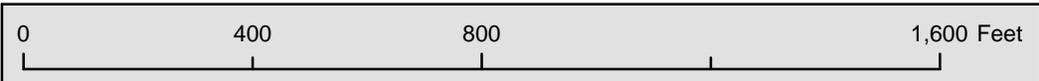


Figure 1

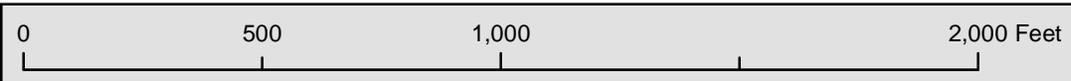
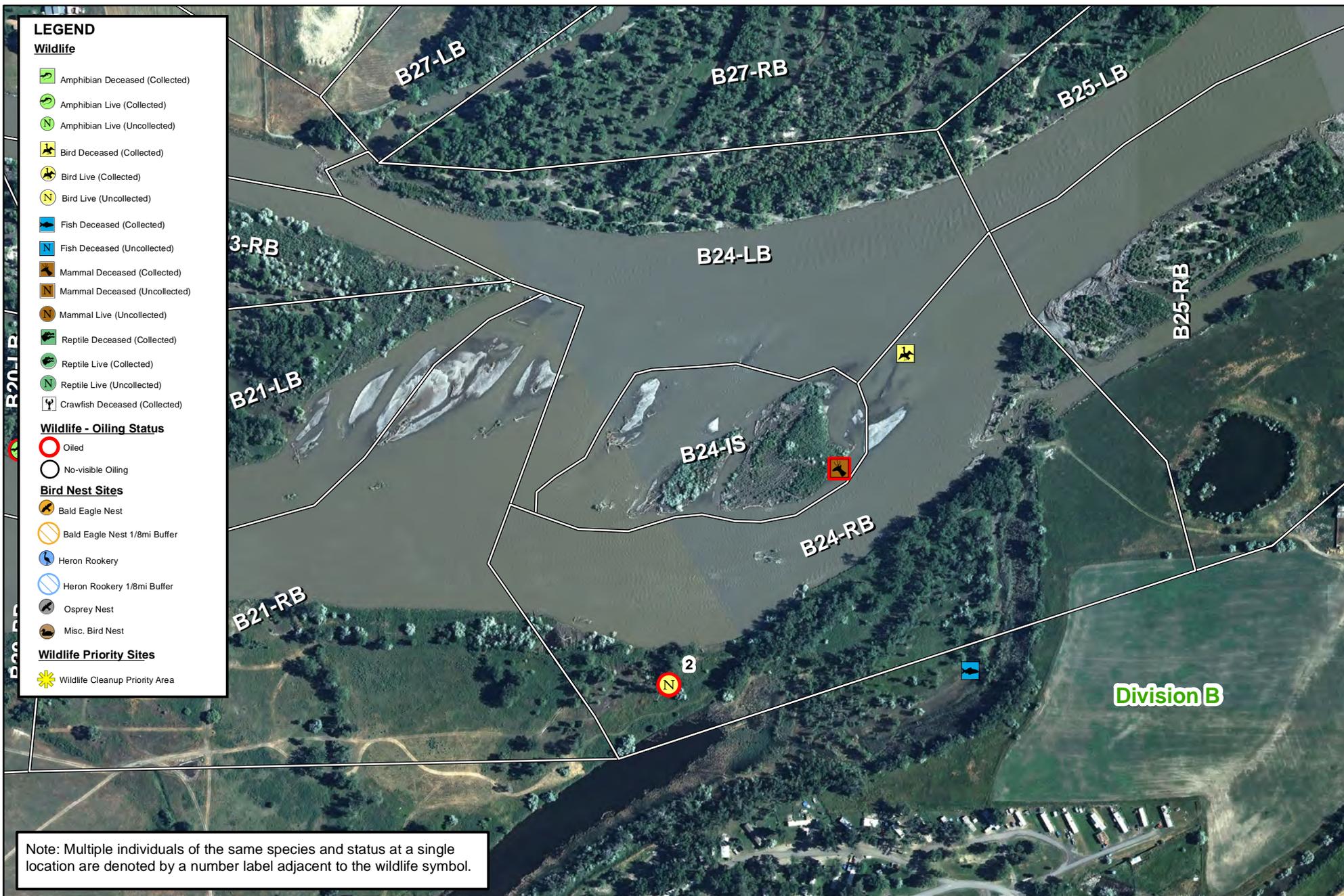
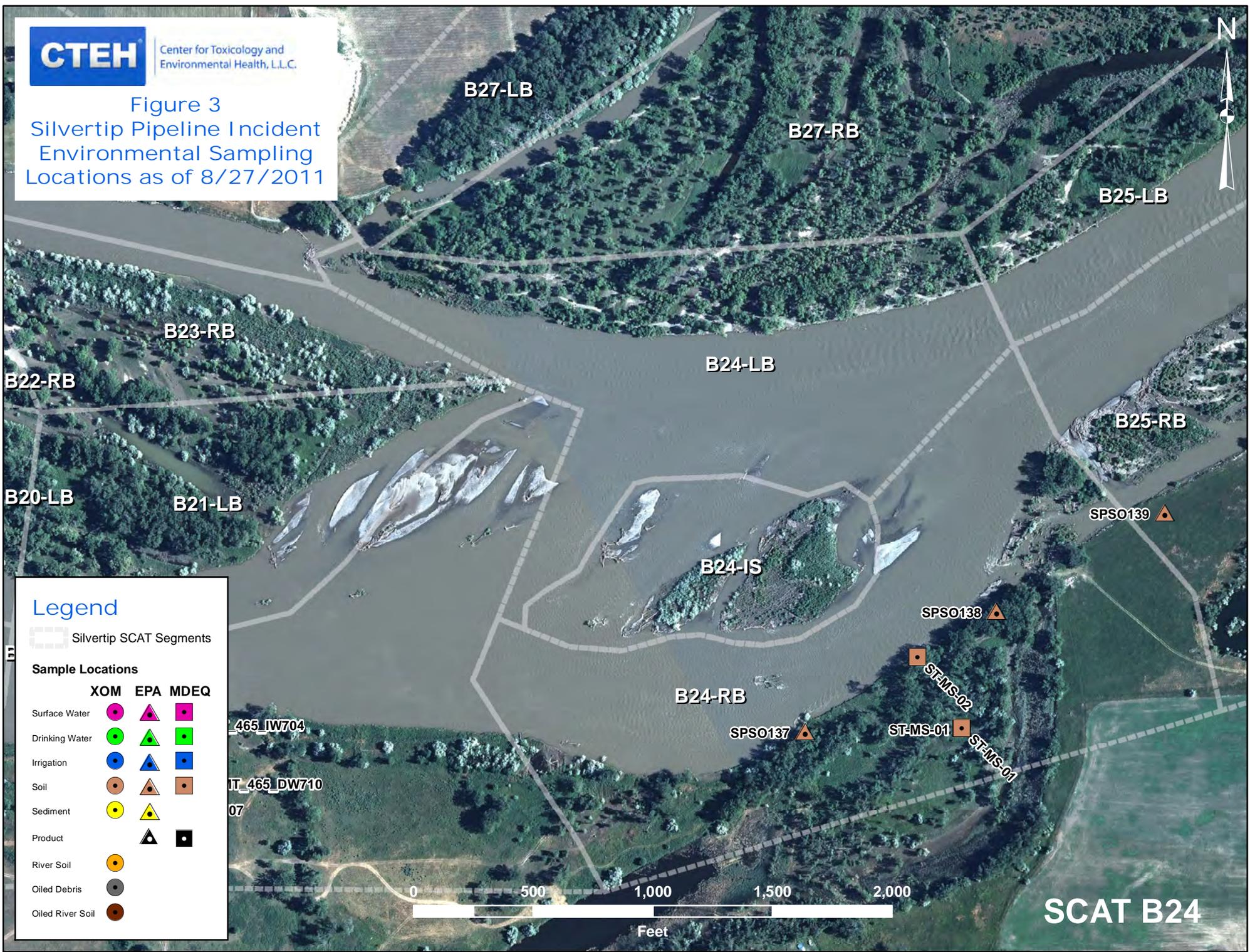


Figure 2
Wildlife Resources



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 B24



 <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 4 - Maximum SCAT Observations</p> <p>For SCAT Area: B24</p>	
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- 9999 Oiling Zone ID
- Heavy Oiling
- Moderate Oiling

- Light Oiling
- Very Light Oiling
- No Oil Observed



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





Appendix A

Sample Detection Summary



Detections in Samples Collected in SCAT Area B24

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?
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No Detections in Field Samples



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 1047 hrs to 1048 hrs		Water Level low - mean - <u>bankfull</u> - overbank falling - steady - rising														
Segment/Reach ID: <u>B24</u> Left Bank / Right Bank / <u>Island</u>				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				USCG																		
3 SEGMENT				Total Segment/Reach Length _____ m		Segment/Reach Length Surveyed <u>288</u> 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 <u>S</u> _____				Pebble/Cobble _____ Boulder _____ Peat/Organic _____				Vegetated Bank: <u>P</u> _____		Wooded Upland: <u>S</u> _____												
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: <u>mixed</u>														
Sloped: (>5°)(15°)(30°)				straight <u>P</u> _____ braided <u>S</u> _____ oxbow _____ flood plain valley _____				Forested / <u>Vegetated</u> / Bare														
4C RIVER CHANNEL CHARACTER				circle or select as appropriate																		
est. width: <1m 1-10m <u>10-100m</u> >100m <u>25</u> m				est. water depth: <1m 1-3m <u>3-10m</u> >10m _____ m																		
shoal(s) present <u>Y</u> /N _____ point bar present Y/N _____				bar-shoal substrate: <u>silt</u> / sand / gravel / cobble / boulder / bedrock / debris																		
seasonal water level: low / mean / bank full / <u>overbank flow</u>				est. change over next 7 days: <u>falling</u> - same - rising																		
5 OPERATIONAL FEATURES				Suitable backshore staging Y <u>(N)</u>		Access: Direct from backshore Y <u>(N)</u> Alongshore from next segment Y <u>(N)</u>																
Debris: <u>Y</u> /N oiled <u>Y</u> /N amount <u>15</u> bags or _____ trucks				access restrictions																		
Oiled trees/shrubs <u>Y</u> /N River Current strong <u>Y</u> /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>695</u> A				X	158	1															X	Grass, trees, debris
<u>696</u> B				X	45	1	100			X	(X)		X									//
<u>697</u> C				X	305	1															X	//
<u>698</u> D				X	357																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 <u>Y</u> /N Overbank Survey Completed <u>Y</u> /N Shoreline Survey Completed <u>Y</u> /N																						
Oil band heights: <u>40cm Zone B</u>																						
Treatment Recommendations: Zone <u>A</u> : No oil observed; no treatment required. <u>(A,C)</u> Zone <u>B</u> : Cut & remove oil coated vegetation smaller than 1" diameter. Remove oil coated debris smaller than 4" diameter. Wipe larger oil coated vegetation.																						
*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 <u>Yes</u> / No Photos <u>(Yes)</u> / No Frames <u>1224-1225</u> <u>Lee</u>																						

A = 58 + 100
C = 54 + 251



B24I
Zones A,B,C&D.
Team #1
19/07/11

DB/G/S

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 29/07/11	Time (24h): std / daylight 1200 hrs to 1310 hrs	Water Level low - mean - <u>bankfull</u> - overbank falling - steady - rising
Segment/Reach ID: <u>B24</u> Left Bank / Right Bank / <u>Island</u>				
Operations Division:				
Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook / _____		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - <u>28</u> deg C

2 SURVEY TEAM # 1	Name	Organization	Signature
Pete Lee	<i>[Signature]</i>	Polaris	225.892.6459
Janice Witul		US EPA	415.816.6582
Mark Peterson	<i>[Signature]</i>	MT DEQ	406.498.4835
Nathan Hammond	<i>[Signature]</i>	Cardno Entrix	513.256.2479

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed ~~380~~ 280 m

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

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 X 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 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 Boat only

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				X	380 280	100	5			(X)	X		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

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: 60-90 cm

Zone A: Light

Treatment recommendations:

Zone : No oil observed; no treatment required.

Zone A : Cut & remove oil coated vegetation smaller than 1" diameter. Remove debris smaller than 4" diameter. Wipe larger oil coated vegetation. Note: Thick vegetation with no oil would be damaged by treatment operations. Ecological impact should be considered.

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

Sketch Yes / No Photos Yes / No Frames 264 (Lee), 1314 (Hammond), 2342-2346 (Peterson) Photographer

D13/G/S

1 GENERAL INFORMATION		Date (dd/mm/yy) 29/07/11	Time (24h): std / daylight 1200 hrs to 1310 hrs	Water Level low - mean - <u>bankfull</u> - overbank falling - steady - rising
Segment/Reach ID: <u>B24</u> Left Bank / Right Bank / Island				
Operations Division:				
Survey by: <u>Foot / ATV / Boat / Helicopter / Overlook /</u>		Sun / Clouds / Fog / Rain / Snow / Windy / Calm	Air Temp +/- <u>2.8</u> deg C	

2 SURVEY TEAM # 1	Name	Organization	Signature
Pete Lee	<i>[Signature]</i>	Polaris	225.892.6459
Janice Witul	<i>[Signature]</i>	US EPA	415.816.6582 <i>[Signature]</i>
Mark Peterson	<i>[Signature]</i>	MT DEQ	406.498.4835
Nathan Hammond	<i>[Signature]</i>	Cardno Entrix	513.256.2479

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed -380 280 m

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

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 X 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 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 Boat only

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

1081

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	<u>380</u>	100	<u>5</u>			<u>(X)</u>	X		X								
					<u>280</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

Oil height: 60-90 cm

Zone A: Light

Treatment recommendations:

Zone : No oil observed; no treatment required.

Zone A : Cut & remove oil coated vegetation smaller than 1" diameter. Remove debris smaller than 4" diameter. Wipe larger oil coated vegetation. Note: Thick vegetation with no oil would be damaged by treatment operations. Ecological impact should be considered.

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

Sketch Yes / No Photos Yes / No Frames 264 1314 2342-2346 Photographer 263-270 (Lee), P290016-18 (Hammond), 2347-2350 (Peterson)



IMG_2358.JPG

IMG_0277.JPG

IMG_2357.JPG

IMG_0273.JPG

IMG_0271.JPG

IMG_0276.JPG

IMG_2351.JPG

IMG_2347.JPG

IMG_2354.JPG

IMG_0268.JPG

IMG_0269.JPG

IMG_0267.JPG

P7290015.JPG

IMG_0266.JPG

P7290016.JPG

IMG_0265.JPG

P7290013.JPG

IMG_2346.JPG

IMG_0262.JPG

IMG_2342.JPG

IMG_0263.JPG

IMG_0264.JPG

IMG_2343.JPG

P7290014.JPG

B24

Google
©2010

Eye alt 1.64 km

Image © 2011 GeoEye

45° 43.930' N 108° 32.698' W elev 958 m

Imagery Date: 8/5/2009



©2010 Google

Eye alt 1.59 km

Image © 2011 GeoEye

45° 43.936' N 108° 32.648' W elev 958 m

Imagery Date: 8/5/2009

B24

71

030 032

026 028 029

025 024

022 020 023

274 021

014 015 019

013 018 010

016 017

009 007

272

005

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>B04</u> <input type="radio"/> Left Bank / <input type="radio"/> Right Bank / <input type="radio"/> Island		<u>6/17/11</u>	<u>1000</u> hrs to <u>1046</u> hrs	low - mean - bankfull - overbank
Operations Division: <u>B</u>				falling - <input checked="" type="radio"/> steady - rising
Survey by: <input checked="" type="radio"/> Foot / <input checked="" type="radio"/> ATV / <input checked="" type="radio"/> Boat / <input type="radio"/> Helicopter / <input type="radio"/> Overlook / _____		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>85</u> deg C

2 SURVEY TEAM # <u>1</u>	Name	Organization	Signature
	<u>Tom Freeman</u>	<u>Polaris</u>	
	<u>Randy Henry</u>	<u>Polaris</u>	
	<u>Andrew Johnson</u>	<u>USCG</u>	
	<u>Travis Olson</u>	<u>USCG</u>	

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed _____ 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 P Pebble/Cobble _____ Boulder _____ Peat/Organic _____ Vegetated Bank P Wooded Upland: S

Sediment Flat: Clay/Mud _____ Sand _____ Mixed/Coarse _____ Other: veg = grass + shrubs 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 _____ oxbow _____ flood plain valley X Forested/ Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 0-100m >100m 160m 50m 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 NA bags of NA trucks access restrictions - water at flood stage

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>285</u>	<u>1</u>	<u>10</u>				<u>X</u>	<u>X</u>	<u>X</u>										<u>grass veg shrubs</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

Debris + oiled veg. along walking tracts to be removed

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



9999 Oiling Zone ID

Light Oiling

Heavy Oiling

Moderate Oiling

Very Light Oiling

No Oil Observed

Figure 4 - Maximum SCAT Observations
For SCAT Area: **B24**

0 225 450 Feet

Printed: 10/3/2011 1:44:40 PM

O:\GIS\SCAT Mapping\Maps\Area Transition Reports\MXD\ATR Fig 4 - Max_SCAT_Observations_DataPages.mxd

Aerial Photography Dated July 20, 2011

POLARIS
APPLIED SCIENCES, INC.

DB 19/5

1 GENERAL INFORMATION Date (dd/mm/yy) 7/6/2011 Time (24h): std / daylight 10:00 hrs to 10:46 hrs Water Level low - mean - bankfull - overbank
 Segment/Reach ID: B-27 Left Bank / Right Bank / Island OK 1/2/1/1
 Operations Division: B
 Survey by: Foot / ATV / Boat / Helicopter / Overlook / Sun / Clouds / Fog / Rain / Snow / Windy / Calm Air Temp +/- 85 deg C

2 SURVEY TEAM # 1
 name organization contact phone number
Tom Freeman Polaris App. Sci. 1-864-630-9004
Randy Henry Polaris App. Sci. 1-409-540-0252
Andrew Johnson USCG 1-609-351-8517
Travis Olson USCG 1-608-566-9044

3 SEGMENT Total Segment/Reach Length 1600 m Segment/Reach Length Surveyed 1600 m
 Start GPS: LATITUDE 42.5 deg. 104.080 min. LONGITUDE -106 deg. 33.051 min. Datum: WGS84
 End GPS: LATITUDE 42.5 deg. 44.313 min. LONGITUDE -108 deg. 32.150 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: (A) Wooded Upland: (S)
 Sediment Flat: Clay/Mud Sand Mixed/Coarse Other: Veg = grass + shrubs 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 ___ braided ___ 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 20 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 NA bags or NA trucks access restrictions WATER @ FLOOD STAGE
 Oiled trees/shrubs Y(N) River Current strong Y(N) Other Features: Access @ foot bridge.

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	(X)	1300	1	60			X	(X)		X									<u>grass/shrubs</u>
B				(X)	400	1	10			X	(X)		X									<u>grass/shrubs</u>
C				X	1300	.5	10			(X)	X		X									<u>grass/shrubs</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

1) Distrib. 60% means: \approx 60% of the grasses along the upper banks are stained or coated w/ oil, \approx 2/3 of grasses show stain, \approx 1/3 grasses show coat (CT), recommend only grasses w/ coat be cut and removed along oxbow!

2) debris oiled vegetation along walking trails to be removed.
 "only included Section of B in Segment B37-RB"
 340 meter

3) Zone C: gravel walkways through flooded park have oiled grassy margins, 10% oil by length x .5m deep

(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 # ___)

1 GENERAL INFORMATION		Date (dd/mm/yy) 19-Jul-2011	Time (24h): std / daylight 29 30 1021 hrs to 1028 hrs	Water Level low - mean - <u>bankfull</u> - overbank falling - steady - rising
Segment/Reach ID: B29/4 <u>Left Bank / Right Bank / Island</u>		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		Polaris	
Larry Alheim		MTDEQ	
Andy Johnson		USCG	
			599

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 1-10 m 10-100 m >100m 120m 80 est. water depth: <1 m 1-3 m 3-10 m >10 m _____ 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 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	MS	TB	PT	TC	SR	AP		NO	
A				X	112	1															X	Grass, trees, debris
B			<u>303</u>	X	205	1	100			X	<u>X</u>		X									Grass, trees, debris
C			<u>15</u>	X	150	1															X	Grass, trees, debris
D					<u>119</u>																	
E					<u>16</u>																	
F					<u>40</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

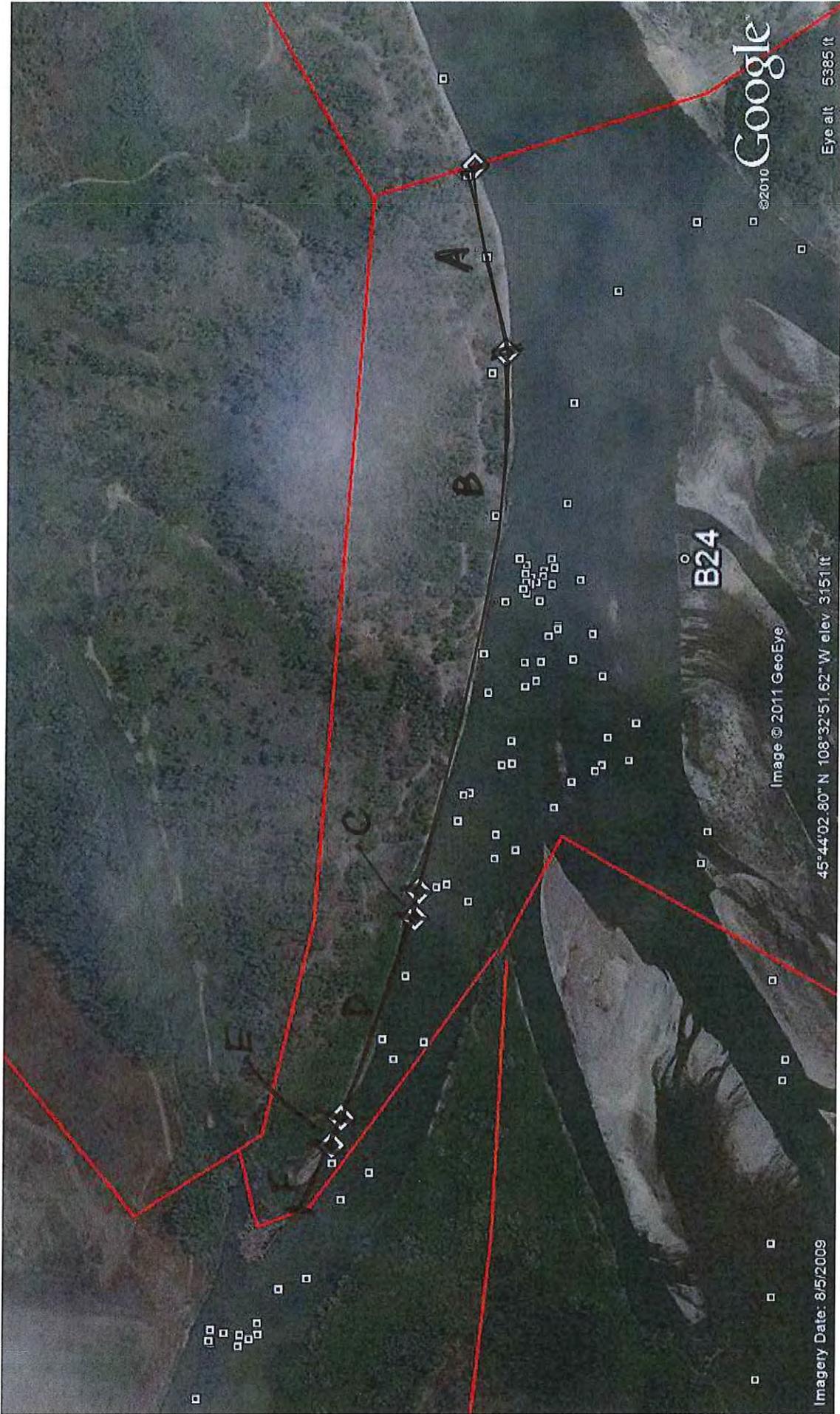
Oil band heights: Zone B - 40cm

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

1192-1200

Sketch Yes / No Photos Yes / No Frames 1156-1163 (Lee)



Google

Eye alt 5385 ft

©2010

A

B

C

D

E

B24

Image © 2011 GeoEye

45°44'02.80" N 108°32'51.62" W elev 3151 ft

Imagery Date: 8/5/2009

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 22/07/2011	Time (24h): std / daylight 11:45 hrs to 11:55 hrs	Water Level low - mean - bankfull - <u>overbank</u> falling - steady - rising
Segment/Reach ID: B24	Left Bank / Right Bank / Island			
Operations Division: <u>B</u>				
Survey by: <u>Foot/ATV/Boat/Helicopter/Overlook/</u>		(Sun) Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - <u>29</u> deg C

2 SURVEY TEAM # 3	Name	Organization	Signature
Jenni Nelson		Polaris	<i>Jenni Nelson</i>
John Bauer		Polaris	<i>John Bauer</i>
Janice Witul (witul)		EPA	<i>Janice Witul</i>
Earl Radonski		MFWP	<i>Earl Radonski</i>

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 0.20 m

Start GPS: 00 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 _____ 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 X confined or leveed _____ Substrate Type: Silt/mud

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 125 m est. water depth: <1m 1-3m 3-10 m >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: Area has many ponds, sloughs, standing water,

Oiled trees/shrubs Y/N River Current strong Y/N Other Features: areas of deep mud and wet unstable sand; thick veg

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	220	50	41			X	(X)						X				Veg
B				X	10	10	3		(X)	X			X				(X)				Veg

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								
None																					

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

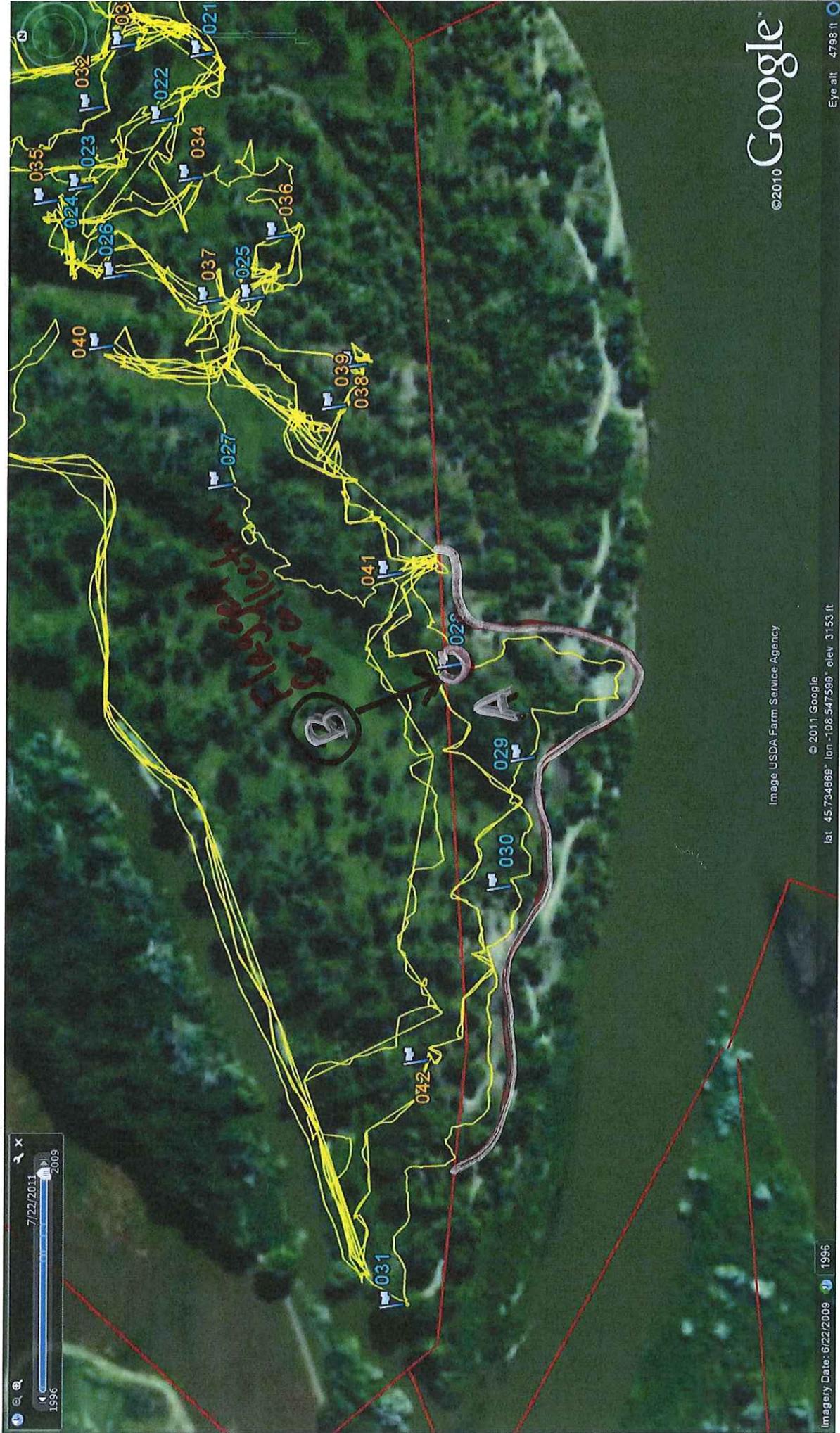
Overbank Survey Required Y/(N) Overbank Survey Completed Y/(N) Shoreline Survey Completed (Y)/N

A - Trace oiling found intermittently throughout area, primarily on grass, wood debris & branches. No further treatment recommended.

B - small area with discreet patches of oiling in woody debris & branches bath tub rings or spatters on grass - Flagged for cleanup - cut grasses & collect woody debris & oil patches. WP#28.

Operations proceeding in area.

Sketch Yes/No Photos Yes/No Frames _____ Photographer J.Nelson, J. Bauer



B-24L SCAT #3 22 July 2011
 Norm's Island

DB/G/S

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page 1 of 1

1 GENERAL INFORMATION		Date (dd/mm/yy) 19 / 07 / 11	Time (24h): std / daylight 1034 hrs to 1035 hrs	Water Level low - mean <u>bankfull</u> overbank falling steady - rising
Segment/Reach ID: <u>B24</u> Left Bank/ <u>Right Bank</u> / Island				
Operations Division: B				
Survey by: Foot / ATV / <u>Boat</u> / Helicopter / Overlook / _____		Sun / 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 575 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) _____ Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud _____ Sand _____ Mixed P 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: mix of

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 low 10/20/11

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 200 bags or 10 trucks access restrictions

Oiled trees/shrubs Y/N River Current strong Y/N Other Features: Access 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				X	290		30			P	S		✓									big bank
B				X	106																	" "
C				X	179		80			P	S		✓									" "

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

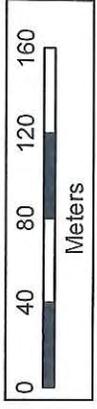
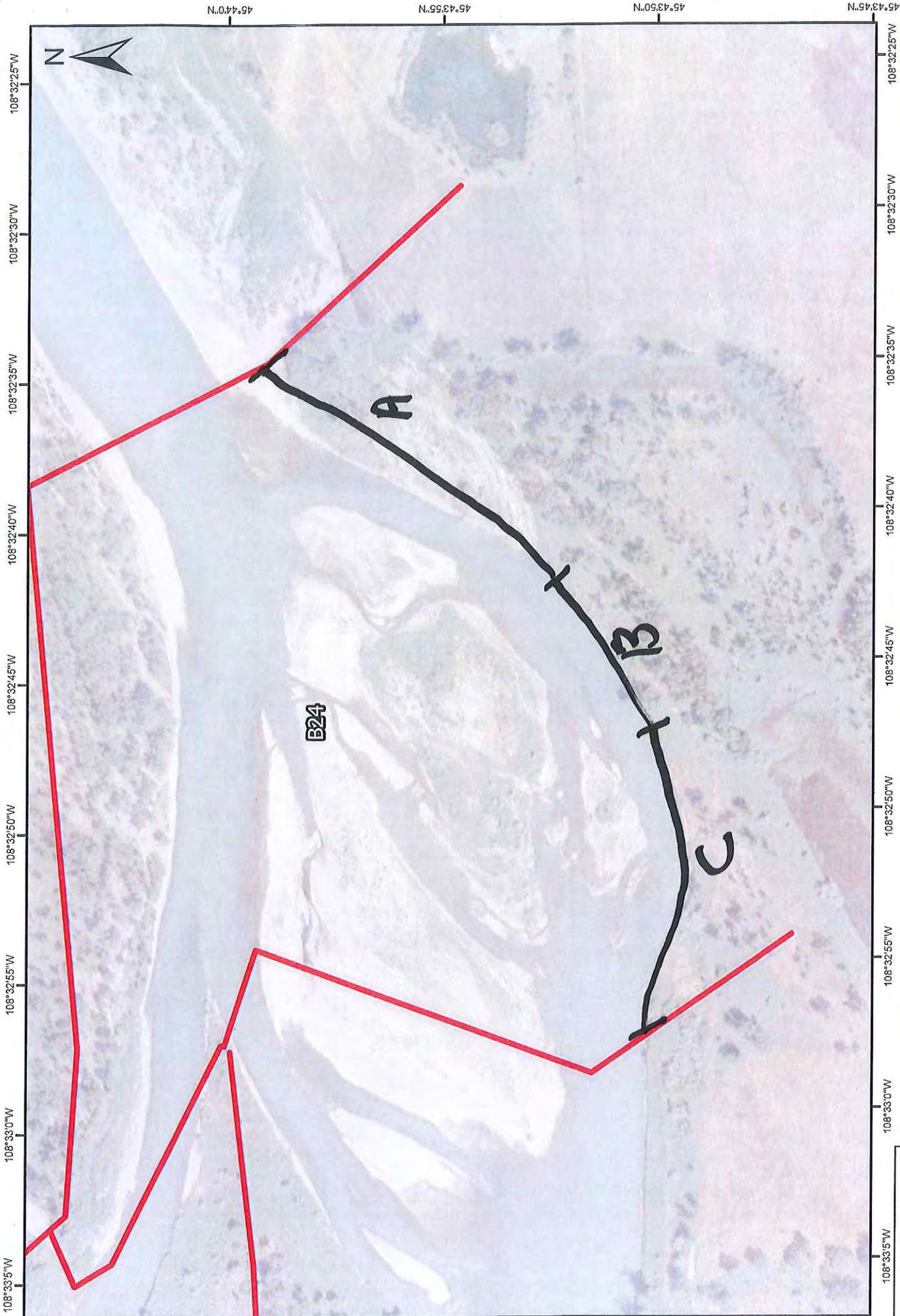
TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER					WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)	
	MS	LB	UB	OB			SAP	OP	PP	OR	OF					TR

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

OSR = 4 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 # 520) Frames 520 Video Tape Yes/No (tape #)



COMMENTS:

DATE:

TEAM:

B24 -
(L/R/I)??

108°33'5"W 108°33'0"W 108°32'55"W 108°32'50"W 108°32'45"W 108°32'40"W 108°32'35"W 108°32'30"W 108°32'25"W

45°43'45"N 45°43'50"N 45°43'55"N 45°44'0"N

DB 1G

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>B24</u>	Left Bank / Right Bank / Island	<u>21/07/11</u>	<u>11:15</u> hrs to <u>11:35</u> hrs	low - mean bankfull - overbank
Operations Division: <u>B</u>				(falling) steady - rising
Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook /		<u>Sun</u> / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>22</u> deg C
2 SURVEY TEAM # <u>4</u>				
<u>John Williams</u>	<u>John Macfousek</u>	<u>Cardno ENTRIX</u>	<u>361 648 3950</u>	
<u>Cardno ENTRIX</u>				
<u>Cardno ENTRIX</u>				
<u>EPA</u>			<u>415 215 0690</u>	
<u>FWP</u>		<u>406 860 7814</u>		

3 SEGMENT	Total Segment/Reach Length <u>568</u> m	Segment/Reach Length Surveyed <u>568</u> m
Start GPS: LATITUDE <u>45</u> deg. <u>43.842</u> min.	LONGITUDE <u>108</u> deg. <u>32.954</u> min.	Datum: _____
End GPS: LATITUDE <u>45</u> deg. <u>43.948</u> min.	LONGITUDE <u>109</u> deg. <u>32.531</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 _____ Shelf _____	Manmade: Solid _____ Permeable _____ (type) _____	Wetland: Swamp _____ Bog/Fen _____ Marsh _____	
Sediment Bank: Clay/Mud <u>S</u> Sand _____ Mixed _____ Pebble/Cobble _____ Boulder _____ Peat/Organic _____	Vegetated Bank: <u>(P)</u>	Wooded Upland: <u>S</u>	
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 <u>S</u>	confined or leveed _____	Substrate Type: <u>veg</u>	
Sloped: <u>(5°)</u> (15°) (30°)	straight _____ braided <u>P</u>	oxbow _____ flood plain valley _____	Forested / Vegetated / Bare	

4C RIVER CHANNEL CHARACTER			circle or select as appropriate
est. width: <1m 1-10m 10-100m <u>100m</u> _____ m	est. water depth: <1m <u>(1-3m)</u> 3-10m >10m _____ m		
shoal(s) present <u>(Y)N</u>	point bar present <u>(Y)N</u>	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: <u>(falling)</u> — same — rising		

5 OPERATIONAL FEATURES		Suitable backshore staging <u>(Y)N</u>	Access: Direct from backshore <u>(Y)N</u> Alongshore from next segment <u>(Y)N</u>
Debris: <u>(Y)N</u> oiled <u>(Y)N</u> amount _____ bags or _____ trucks	River Current strong <u>(Y)N</u>	access restrictions	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	
<u>518</u> <u>519</u> A				<u>P</u>	<u>568</u>	<u>10</u>	<u>50</u>			<u>P</u>	<u>S</u>						<u>P</u>					
B				<u>P</u>	<u>568</u>	<u>80</u>	<u>0</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				

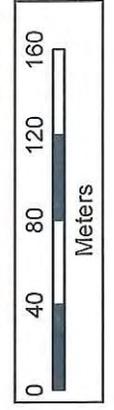
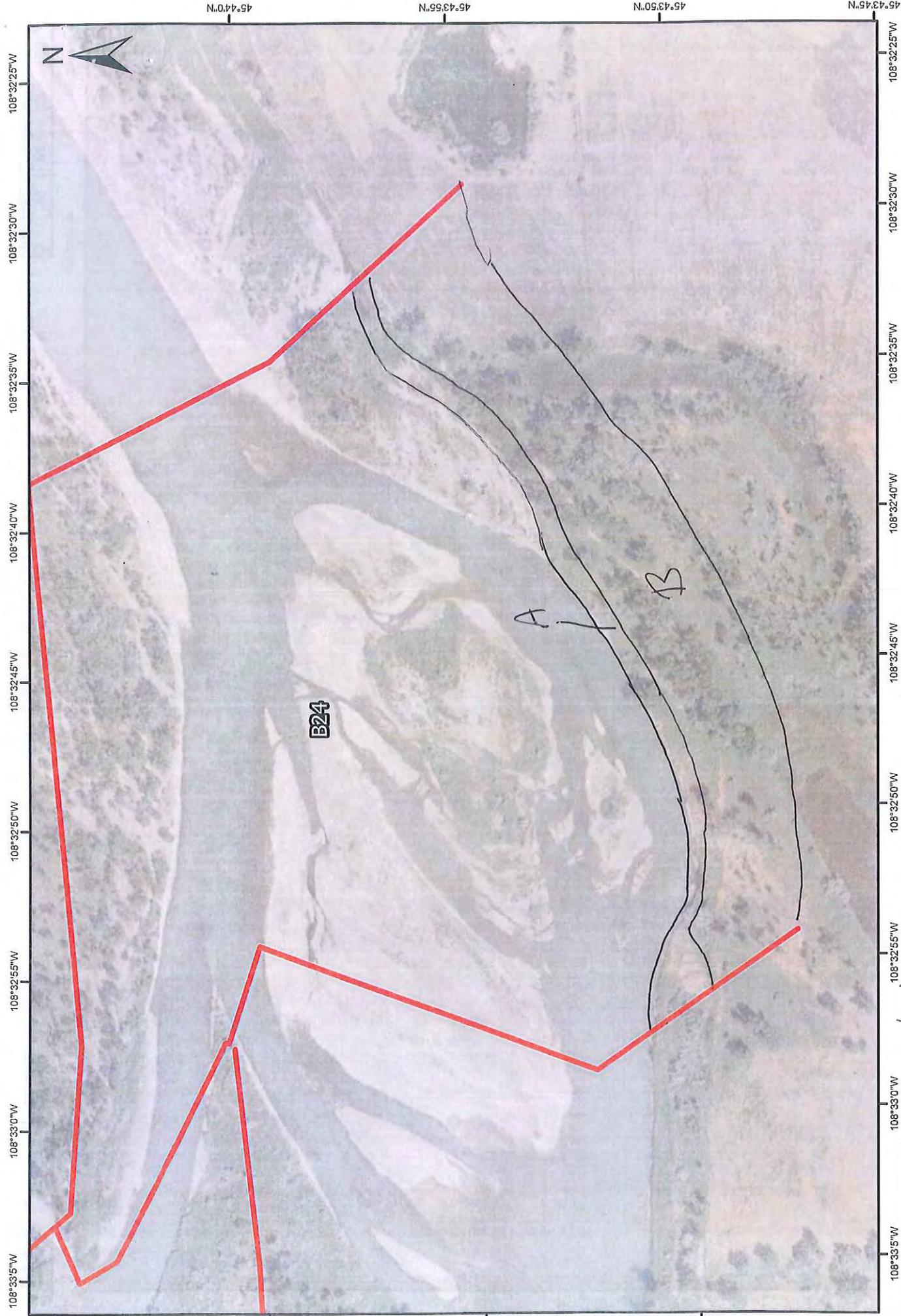
8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

Zone A - recommend Low Priority Limited Vegetation Removal by Cutting and Bagging

Zone B - No Recommendation

(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# _____)



COMMENTS:

DATE: 7/21/11
TEAM: 4

B24 -
(L/R/I)??

108°33'55"W 108°33'00"W 108°32'55"W 108°32'50"W 108°32'45"W 108°32'40"W 108°32'35"W 108°32'30"W 108°32'25"W

45°44'5"N 45°44'0"N 45°43'55"N 45°43'50"N 45°43'45"N

DB/S

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 29/07/11	Time (24h): std / daylight 1320 hrs to 1340 hrs	Water Level low - mean - <u>bankfull</u> - overbank falling - steady - rising
Segment/Reach ID: B <u>24</u> Left Bank/ <u>Right Bank</u> / Island		Operations Division:		
Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook /		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>2.8</u> deg C

2 SURVEY TEAM # 1	Name	Organization	Signature
Pete Lee	<u>PBL</u>	Polaris	225.892.6459
Janice Witul		US EPA	415.816.6582
Mark Peterson	<u>M. Peterson</u>	MT DEQ	406.498.4835
Nathan Hammond	<u>N. Hammond</u>	Cardno Entrix	513.256.2479

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 100 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 X _____ 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 // 0 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

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	
1028 A				X	100	75	5			X	X		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 height:

Treatment recommendations:

Zone : No oil observed; no treatment required.

Zone A : Cut & remove oil coated vegetation smaller than 1" diameter. Remove debris smaller than 4" diameter. Wipe larger oil coated vegetation.

*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 265-269 (Lee) Photographer _____

2347-2350 (Polaris)
P 7290015-16 (Hammond)

DB/S

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 29/07/11	Time (24h): std / daylight 1320 hrs to 1340 hrs	Water Level low - mean - <u>bankfull</u> - overbank falling - steady - rising
Segment/Reach ID: B <u>24</u> Left Bank/ <u>Right Bank</u> / Island		Operations Division:		
Survey by: <u>Foot / ATV / Boat / Helicopter / Overlook /</u>		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - <u>28</u> deg C
2 SURVEY TEAM # 1		Name	Organization	Signature
Pete Lee <u>PBL</u>		Polaris		225.892.6459
Janice Witul <u>JW</u>		US EPA		415.816.6582 <u>Janice Witul</u>
Mark Peterson <u>MP</u>		MT DEQ		406.498.4835
Nathan Hammond <u>NH</u>		Cardno Entrix		513.256.2479

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 100 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 _____ Pea/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 X 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 110 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

028

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	%	m	m	%																	
A				<u>X</u>	100	75	5			<u>X</u>	<u>X</u>		<u>X</u>										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 height:

Treatment recommendations:

Zone : No oil observed; no treatment required.

Zone A : Cut & remove oil coated vegetation smaller than 1" diameter. Remove debris smaller than 4" diameter. Wipe larger oil coated vegetation.

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

Sketch Yes / No Photos Yes / No Frames 265-269 (Lee) Photographer _____

2347-2350 (Polaris)
P 7290015-16 (Hammond)

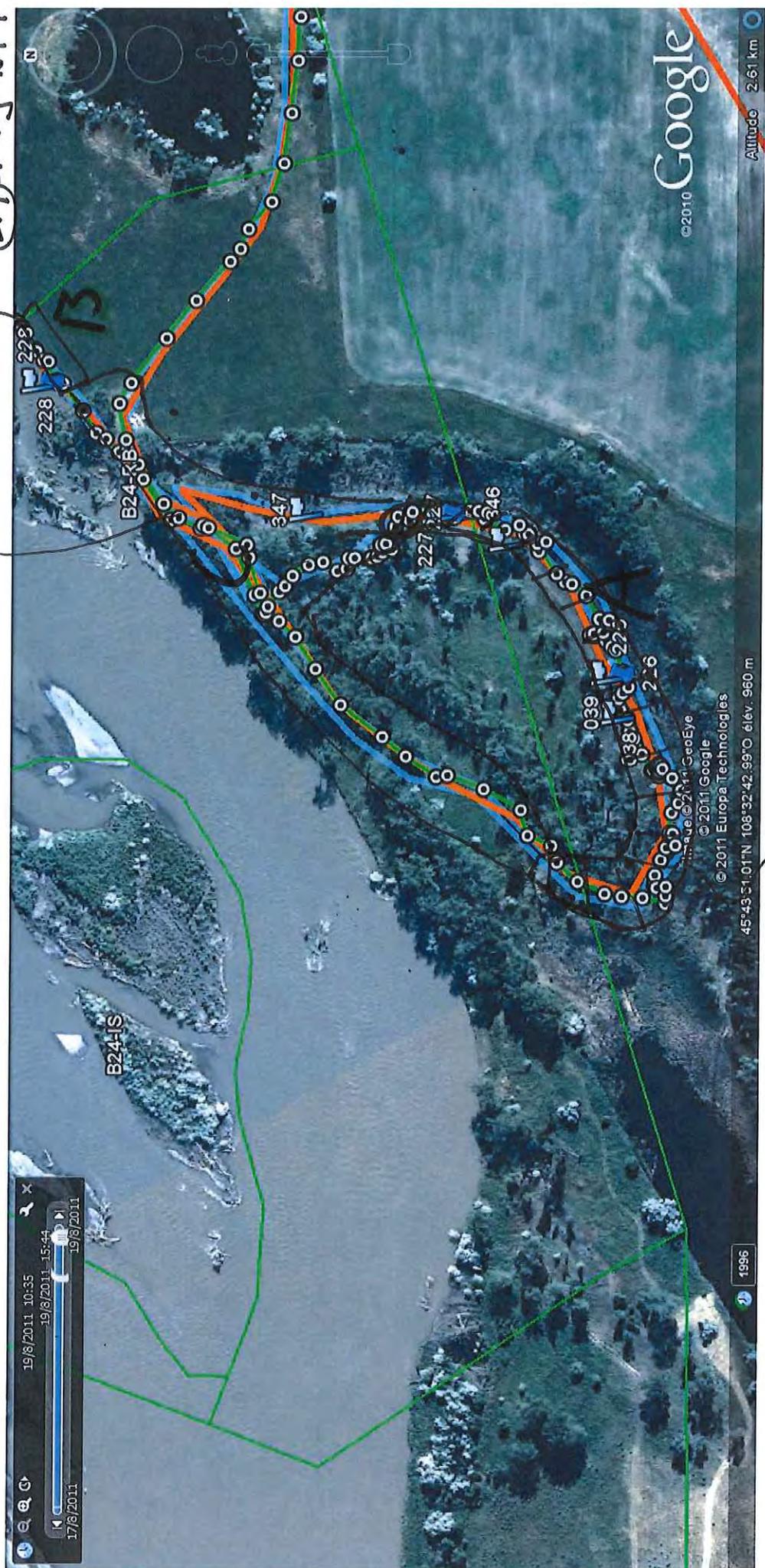


~~B24~~ RB
 24

B24
SCATS
19 Aug 2011

P. 2 of 2

actively working veg
zc: 315 x 20m NOO/ORs working veg
zb: 50 x 0.5m 40%
(ST)ST veg NFT



ca 18m x 357m
(ST)ST < 1% veg CTR → continue
do not work in cattails, only those
that are accessible by perimeter



Appendix C

Pre-Inspection Survey Transmittal

✓

SCAT – Pre Inspection Survey Transmittal (PIST) Memo

Survey Date: 10-11 August 2011

Segment: B24LB

Team: SCAT Liaison John Spenik Signed: 

USCG Observer TRUMAN SKANG Signed: 

Observer _____ Signed: _____

Observer _____ Signed: _____

Segment meets criteria? YES X NO _____

RBOS attached? YES _____ NO X

If NO:

Location Sketch attached? YES N/A NO _____

CTR continue? YES _____ NO x

Comments: During the survey some light oiling was encountered and was collected /cleaned by a hot shot cleanup crew.



Appendix D

Post-Inspection Survey Transmittal

POST

Post Inspection Survey Transmittal

Segment B24 RB

Date of Survey September 2, 2011

SCAT Team Member Josh Hofkes Signed: [Signature]

SCAT Team Member JUAN LATINO Signed: [Signature]

SCAT Team Member MATTHEW KEAT Signed: [Signature]

Segment FAILED ReSCAT

Segment Conditionally PASSES ReSCAT



IF the Segment FAILED ReSCAT, another ReSCAT is required after treatment has been completed.
IF the Segment Conditionally PASSES ReSCAT, a SCAT/Ops Liaison will verify treatment completion.

Describe the zone requiring further treatment. Comment on oiling conditions, relevant portions of the CTR(s), the appropriate ATMs to use, GPS waypoints, additional comments, etc. Attach map.

Zone B (Island) appears to have NOT been treated by Ops. Large amount of transference oil coat on willows.

ATM: # 1 & # 2

Zone Dimensions: Length 110 Width 40 GPS Waypoint: Lat. _____ Long. _____
(required) meters (center of zone)

Estimated Work Effort: Number of People 5 Hours of Work 4 Applicable CTR(s) _____
(required)

The undersigned attests that the above treatment has been completed and the identified area meets the Approved Treatment Methods Target Endpoints.

[Signature] John Spenik / Polaris 08 Sep 2011
Sign Name Print Name/ Affiliation Date

[Signature] Robert Ashton / MOE Q 9/8/2011
Sign Name Print Name/ Affiliation Date



Appendix E

Final SCAT Survey Forms
and Sketches

DB/6

R

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 28/AUG/2011	Time (24h): std / daylight 11:44 hrs to 14:29 hrs	Water Level low - mean - bankfull - overbank falling - steady - rising
Segment/Reach ID: B24 Left Bank / Right Bank / Island				
Operations Division: B24 ISLAND				
Survey by: Foot / ATV / Boat / Helicopter / Overlook /		Sun / Clouds / Fog / Rain / Snow / Windy / Calm	Air Temp + / - 30 deg C	

2 SURVEY TEAM # 5	name	organization	contact phone number
Ariel Blanc		Polaris	<i>[Signature]</i>
Daniel Elefant		Cardno ENTRIX	<i>[Signature]</i>
Earl Radonski		DEQ	<i>[Signature]</i>
Larisa Leonova		EPA	<i>[Signature]</i>

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 325 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 S (type) r/prap _____ Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud _____ Sand S _____ Mixed S _____ Pebble/Cobble _____ 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 2-3 m canyon _____ manmade _____ meander P confined or leveed S Substrate Type: sand/sed

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 5 bags or _____ trucks access restrictions

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

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>1923</u> A				X	325	165	<1			X	X						X					Veg/debris
1923 B				X	205	150																<u>COBBLE</u>
<u>1934</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

ReSCAT

Zone A: Trace oiled vegetation and natural debris. Hotshot crew accompanied ReSCAT Team. Remaining transferable oil removed during ReSCAT. Segment meets operational endpoints. NFT.

ZN B: N.O.O.

(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# _____)

B24-IS
SCAT 5
28 Aug 2011

B21-LB

B21-RB

B24-LB

B24-IS

B24-RB

Zone A: NEST
Zone B: No. 0



DB/Care

A

1 GENERAL INFORMATION		Date (16/08/11)	Time (24h): std / daylight	Water Level
Segment/Reach ID: B24 (Part) <u>Left Bank / Right Bank / Island</u>				low - <u>mean</u> - bankfull - overbank
Operations Division:			8h00 hrs to 11h00 hrs	falling - steady - rising
Survey by: <u>Foot / ATV / Boat / Helicopter / Overlook /</u>		<u>Sun / Clouds / Fog / Rain / Snow / Windy / Calm</u>	Air Temp + / - <u>20</u> deg C	
2 SURVEY TEAM # 5	<u>name</u>	<u>organization</u>	<u>contact phone number</u>	
	Merlo Gauvreau	Polaris	<i>[Signature]</i>	
	Chris Arrendondo	Cardno Entrix	<i>[Signature]</i>	
	Cindy Santiago	EPA	<i>Cindy E. Santiago</i>	
	Marcile Sigler	DEQ	<i>Marcile Sigler</i>	

3 SEGMENT Total Segment/Reach Length 567 m Segment/Reach Length Surveyed 161 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 S Boulder _____ Peat/Organic _____ Vegetated Bank: S Wooded Upland: P

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 S 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 100 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

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	161	80	0														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				

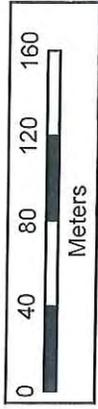
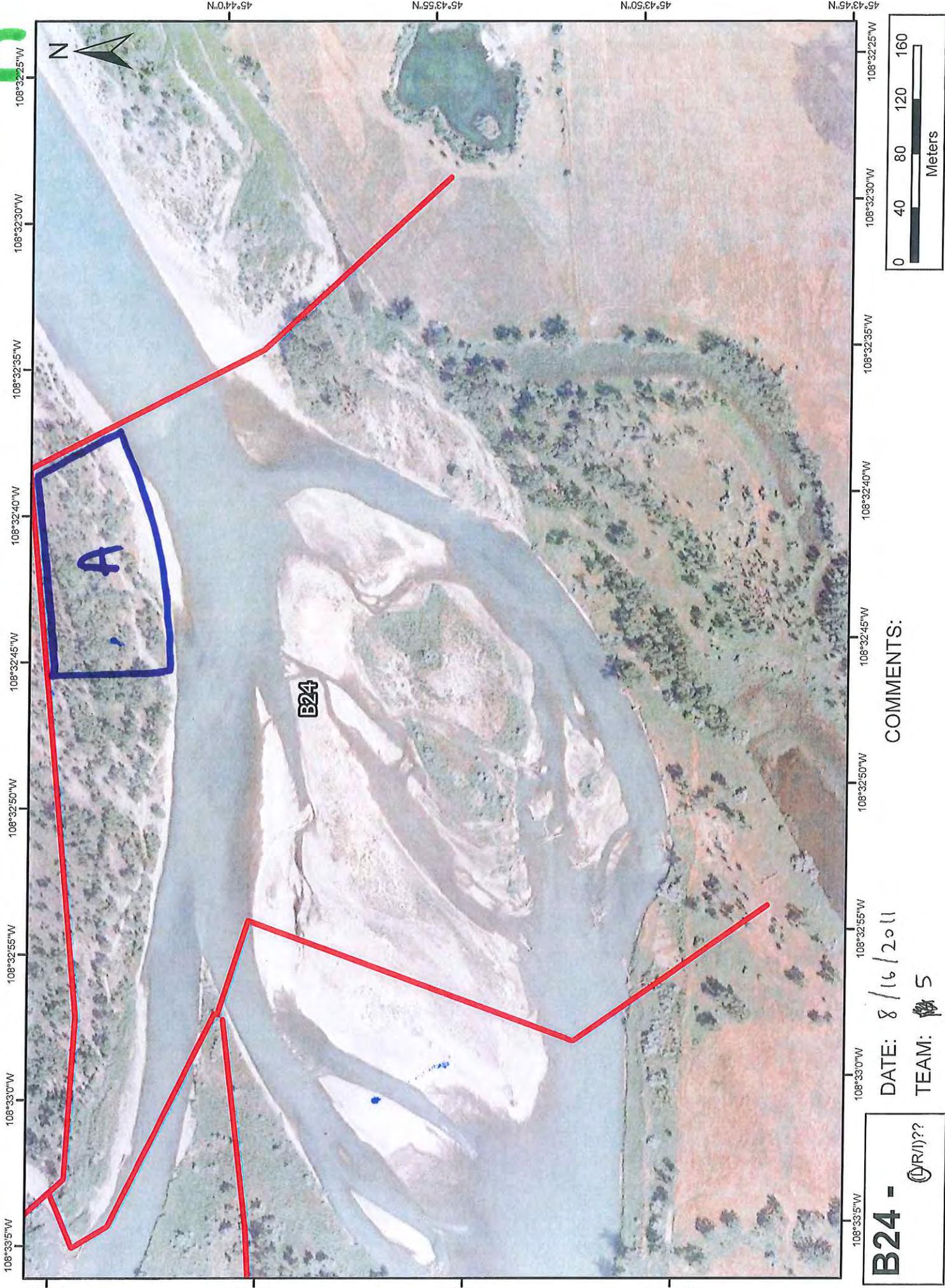
8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

A: ReSCAT, No oil observe, meet the conditions of the CTR, NFT

(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



COMMENTS:

DATE: 8/16/2011

TEAM: 5

B24 - (R/I)??

108°33'5"W 108°33'0"W 108°32'55"W 108°32'50"W 108°32'45"W 108°32'40"W 108°32'35"W 108°32'30"W 108°32'25"W

45°44'5"N 45°44'0"N 45°43'55"N 45°43'50"N 45°43'45"N

DB16

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 09/10/2011	Time (24h): std / daylight 959 hrs to 1051 hrs	Water Level low - <u>mean</u> - bankfull - overbank falling - steady - rising
Segment/Reach ID: B24 <u>Left Bank</u> / Right Bank / Island		Operations Division:		
Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook / _____		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - <u>15</u> deg C

2 SURVEY TEAM # 1	Name	Organization	Signature
Richard Marty		Polaris	<i>Richard Marty</i>
Jay Watson		State of Montana	<i>Jay Watson</i>

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 520 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 S _____ Sand S _____ Mixed _____ Pebble/Cobble _____ 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: Silt/mud/sand

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

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m >100m 100 m est. water depth: <1m 1-3 m 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: Must have landowner permission

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

2427
2428

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	285	70	<1				X							X				Vegetation Debris
B				X	235	70	0													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
None																	

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

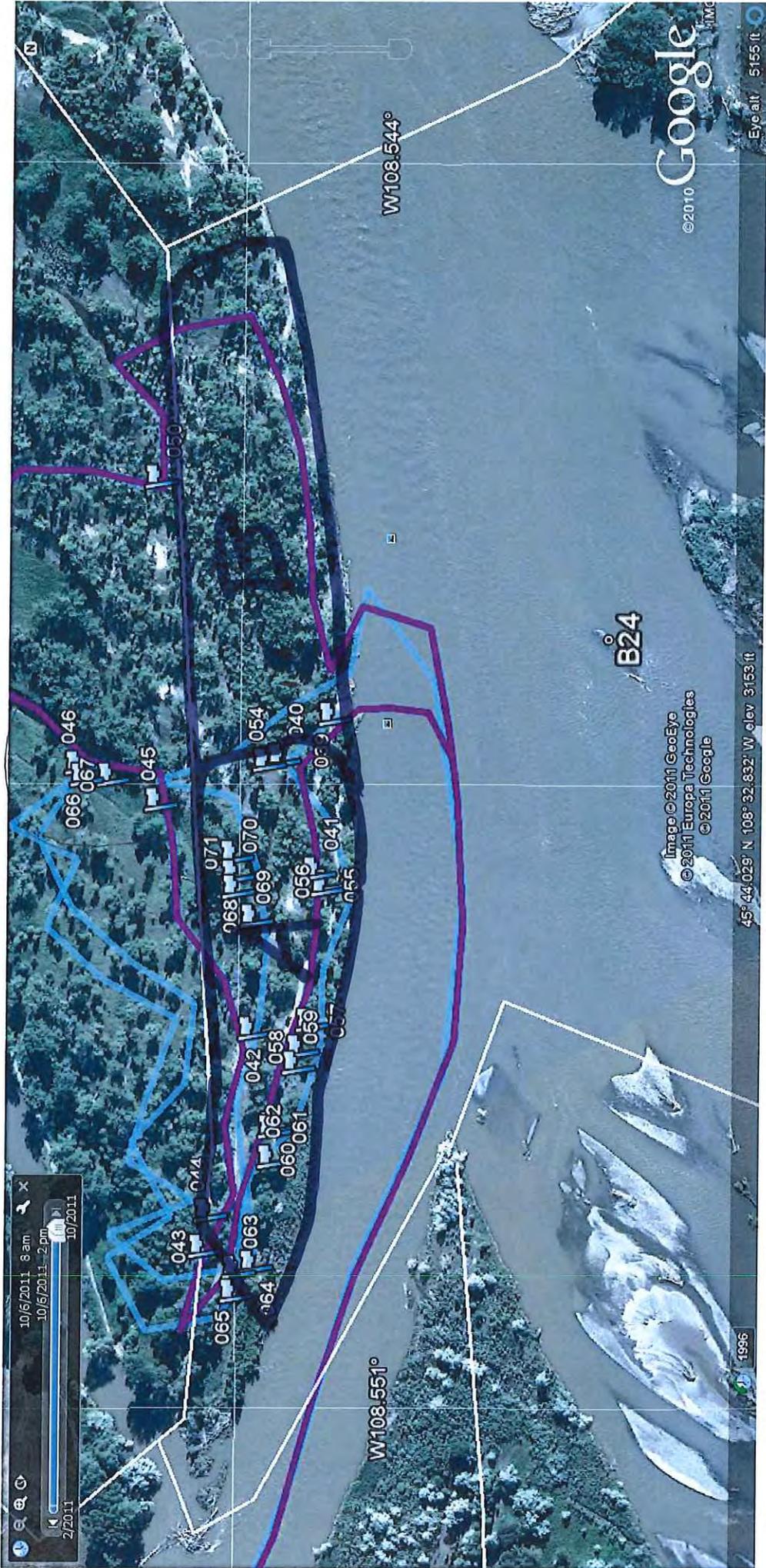
Overbank Survey Required Y / N Overbank Survey Completed Y / N Shoreline Survey Completed Y / N

Natural Attenuation is appropriate for the trace oiling remaining in Zone A. Oil is not transferable.

The surveyed area is NFT.

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

B24L



A = Trace, Stain, VL
B = NOD

SGAT TEAM |
6 October 2011

DB/C

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page _____ of _____

1 GENERAL INFORMATION		Date (dd/mm/yy)	Time (24h): std / daylight	Water Level
Segment/Reach ID: <u>024</u>	Left Bank / Right Bank / Island	<u>25-8-11</u>	<u>12:30</u> hrs to <u>15:30</u> hrs	low - mean - bankfull - overbank
Operations Division:				falling - steady - rising
Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook /		<u>Sun</u> / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>20</u> deg C

2 SURVEY TEAM # <u>1</u>	Name	Organization	Signature
	<u>Charles P...-1</u>	<u>Central ENTRIX</u>	<u>Charles P...</u>
	<u>Justin Hancock</u>	<u>MFWA</u>	<u>Justin Hancock</u>
	<u>Robert Ashton</u>	<u>MOEQ</u>	<u>Robert Ashton</u>
	<u>Linda Watson</u>	<u>EPA</u>	<u>Linda R. 31A</u>

3 SEGMENT Total Segment/Reach Length 555 m Segment/Reach Length Surveyed 175 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 I Boulder _____ Peat/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: S

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 375 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 5 bags or 8 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	%	m	m	%																
1879 1880 A				X	175	70	0														X	Sun
B				Y	175	20	21			P	S						P					<u>Substrate</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

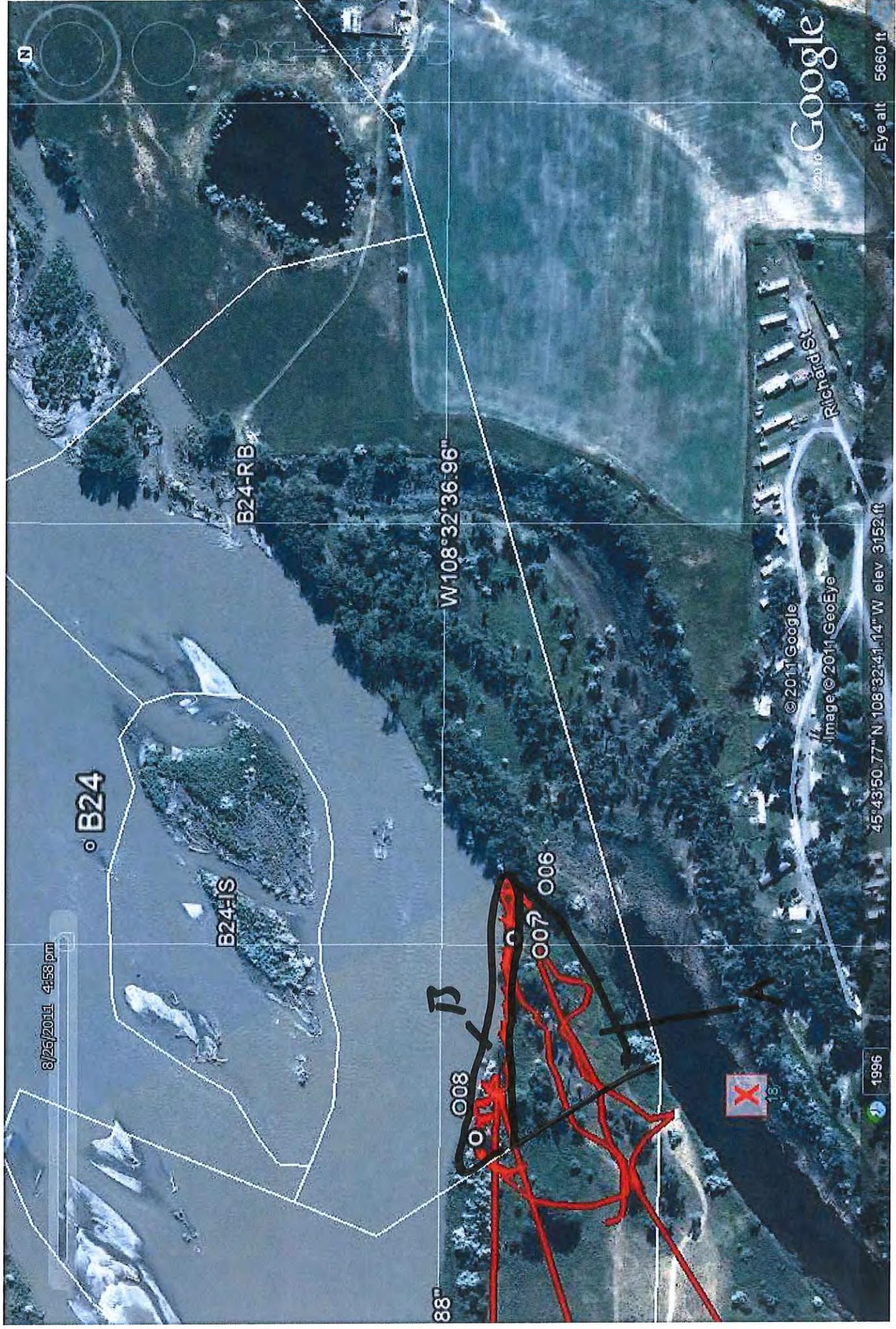
Overbank Survey Required Y / (N) Overbank Survey Completed Y / (N) Shoreline Survey Completed Y / (N)

Zone B had spongy area of cooked + stink veg + shrub + debris. Hot spot
 Crown cut + pick up + bussed + removed. No further treatment

Zone A: NOD - NFT

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

T-1 8-25-11





o B24

W108°32'36.96"

N45°43'50.88"

8°33'2.88"

B24-RB
SCAT 1
25 Aug 2011

B X A



1996

Imagery Date: 8/5/2009

© 2011 Google
© 2011 Europa Technologies

Image © 2011 GeoEye

45°43'51.65" N 108°32'44.38" W elev 3152 ft

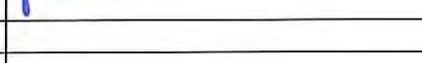
Richard St

Google

Eye alt 5529 ft

DB/6

1 GENERAL INFORMATION		Date (dd/mm/yy) 02/09/11	Time (24h): std / daylight 1100 hrs to 1430 hrs	Water Level low - <u>mean</u> - bankfull - overbank falling - steady - rising
Segment/Reach ID: B24 Left Bank/ <u>Right Bank</u> / Island				
Operations Division: B				
Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook / _____		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- _____ deg C

2 SURVEY TEAM # 1 and 3 5	Name	Organization	Signature
	Josh Hofkes	Cardno ENTRIX	
	Matthew Kent	DEQ	
	Juan Patino	USCG	

3 SEGMENT	Total Segment/Reach Length _____ m	Segment/Reach Length Surveyed <u>590</u> m
Start GPS: LATITUDE _____ deg. _____ min.	LONGITUDE _____ deg. _____ min.	Datum: _____
End GPS: LATITUDE _____ deg. _____ min.	LONGITUDE _____ deg. _____ min.	

4A RIVER BANK TYPE <i>SELECT only one primary (P) shoreline type and any number of secondary (S) types. CIRCLE those OILED</i>			
Bedrock: Cliff/Ramp _____ Shelf _____	Manmade: Solid _____ Permeable _____ (type) _____	Wetland: Swamp _____ Bog/Fen _____ Marsh _____	
Sediment Bank: Clay/Mud _____ Sand _____ Mixed <u>S</u> Pebble/Cobble <u>P</u> Boulder _____ Peat/Organic _____	Vegetated Bank: _____		Wooded Upland: _____
Sediment Flat: Clay/Mud _____ Sand _____ Mixed/Coarse _____	Other: _____	If snow and ice use Winter River SOS	

4B RIVER VALLEY CHARACTER <i>select as appropriate</i>				<i>complete for primary</i>
Cliff or Bluff: _____ Est Height _____ m	canyon _____ manmade _____ meander _____	confined or leveed _____		Substrate Type: _____
Sloped: _____ (>5°)(15°)(30°)	straight _____ braided <u>S</u> oxbow _____	flood plain valley <u>P</u>		Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER <i>circle or select as appropriate</i>			
est. width: <1m 1-10m <u>10-100m</u> >100m	est. water depth: <1m <u>1-3m</u> 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 / <u>mean</u> / bank full / overbank flow	est. change over next 7 days: <u>falling</u> — same — rising		

5 OPERATIONAL FEATURES		Suitable backshore staging Y/N	Access: Direct from backshore Y/ <u>N</u> Alongshore from next segment Y/ <u>N</u>
Debris: Y/N oiled Y/N amount _____ bags or _____ trucks	access restrictions	<u>ZONE B</u>	
Oiled trees/shrubs Y/N	River Current strong <u>Y</u> /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)				
					Length	Width	Distrib.																	
	MS	LB	UB	OB	m	m	%	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR	AP		NO			
A				X	590	150	<1			X	⊗						X					mix		
B				X	110	40	>5			⊗	X						X					mix		

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 / N Overbank Survey Completed / N Shoreline Survey Completed / N

A: Less than 1% stain
N.F.T.

B: Requires treatment by Ops.

Removed 2 bags of oiled coat from zone A.

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



TEAM 5
September 2, 2011

B24 RB

A: Less than 1% stain

N.F.T.

B: Requires Ops to remove coat



Appendix F

Completed SCAT Segment
Sign-Off Forms

SCAT SEGMENT OPERATIONS COMPLETION SIGN-OFF SHEET

SILVERTIP PIPELINE RELEASE

Segment B24-Island

Date of Survey 28-AUG-2011

Dates of Initial SCAT Assessments

17, 21, 28 & 29 JULY - 2011
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment

CTR 35

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).*

Larisa Leonova LARISA LEONOVA 8/28/11
Sign Name Print Name/ Affiliation Date
Federal Representative (EPA/USCG)

Earl Radonski Earl Radonski 8/28/11
Sign Name Print Name/ Affiliation Date
State Representative (DEQ/FWP)

Ariel Blanc Ariel Blanc (Polaris) 28-AUG-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.

COMPLETED

Silvertip Pipeline Spill SCAT Segment Sign-Off Sheet

Operations Division: A **(B)** C
 SCAT Area Number (i.e. A12): B 24 (Part)
 SCAT Segment Number (i.e. A12-LB/IS/RB): B24/LB

Owner, St of Montana
Partial Complete
3/23/11

Check if Complete:

1. Completion Date for Initial SCAT Assessment: 22 July 2011

2. Combined Treatment Recommendations (CTRs) Developed/Issued:

List CTRs Applicable to SCAT Segment: 22

3. Clean-Up Operations Conducted:

4. Inspection (CTR Objectives and CTR Addendums Complete):

[Signature] 22 AUG 2011
 RP Representative (SCAT/Ops Liaison Contractor) Date

5. SCAT Reassessment:

Cindy E. Santiago 8/22/11
 Federal Representative (EPA/USCG) Date

Maricela Segler 8/24/11
 State Representative (DEQ/FWP) Date

[Signature] 22-08-11
 RP Representative (SCAT Contractor) Date

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 Reassessment, the SCAT area will achieve the response endpoints and an Area Transition Report will be completed and submitted to EPA and DEQ upon completion.

SCAT SEGMENT OPERATIONS COMPLETION SIGN-OFF SHEET

SILVERTIP PIPELINE RELEASE

Segment B24L Date of Survey 09/10/2011

Dates of Initial SCAT Assessments 6, 19, 22 July, 16 August 2011
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment CTR-22

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.

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

[Signature] _____ *JAY WATSON / FWP* _____ *10/7/11* _____
Sign Name _____ Print Name/ Affiliation _____ Date _____
State Representative (DEQ/FWP)

Richard Marty _____ *Richard Marty* _____ *6 October 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.

SCAT SEGMENT OPERATIONS COMPLETION SIGN-OFF SHEET

SILVERTIP PIPELINE RELEASE

Segment B24 RB

Date of Survey September 2, 2011

Dates of Initial SCAT Assessments

19 JUL 11 (PL)
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment

35

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] VSCG POST 02 AUG 2011
Sign Name Print Name/ Affiliation Date
Federal Representative (EPA/USCG)

[Signature] DEQ 9/2/2011
Sign Name Print Name/ Affiliation Date
State Representative (DEQ/FWP)

[Signature] Josh Hofkes/Cardno 9/2/2011
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.