

ExxonMobil Pipeline Company

**SCAT Area Transition Report for
B20**

Silvertip Pipeline Incident
Laurel, Montana

October 21, 2011



SCAT Area Transition Report for B20

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Laurel, Montana

Prepared for:
ExxonMobil Pipeline Company

Prepared by:
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Our Ref.:
B0085883.1103

Date:
October 21, 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 B20, 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 B20. 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 B20, 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 B20 is 39.1. There were no access issues for this area.

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 B20. One oiled Leopard frog (*Rana pipiens*) was captured, cleaned, and released. A Wildlife Priority Cleanup Area (WPCA) was identified that encompassed the four segments that make up the B20 Island (B20-LB, B21-LB, B22-RB, B23-RB). The WPCA consisted of several areas of transferable oil located across the B20 Island. The WPCA was treated to reduce the potential for wildlife oiling and is no longer considered a wildlife hazard. No active migratory bird nests were identified in Area B20.

1.3 Summary of Environmental Sampling

Table 1 (below) summarizes samples collected within Area B20. 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 B20 are provided on Figure 3.

Table 1 Environmental Sampling Summary

Agency	Sample Num	Date	Matrix	Location	Latitude	Longitude
CTEH	BIMT0801DW701	8/1/11	Water_Drinking	BIMT_465	45.729805	-108.555327
CTEH	BIMT0823SO501	8/23/11	Soil_River	SO-B20	45.731144	-108.556078

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 exceedances.

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 B20 are included in Appendix B. Figure 4 provides the maximum oiling zones observed by the SCAT team during the initial surveys of Area B20.

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. 21](#) and [CTR No. 24](#)).

1.6 Oil Removal Activities

Oil removal activities were conducted within Area B20 in accordance with the ATMs identified in the CTRs. [Appendix I](#) of the Summary of Assessment and Oil Removal Activities report presents this data including: date range/days worked, average number of people working per day, equipment used, and various types of bags removed: oily debris, personal protective equipment, plastic, trash, super sacks, wood chips, and contaminated wood.

1.7 Pre-Inspection Survey Transmittal

SCAT Operations liaisons performed an inspection of the remediated areas of SCAT Area B20 and developed a Pre-Inspection Survey Transmittal (PIST) associated with the right bank within Area B20, which is presented in Appendix C.

1.8 Post-Inspection Survey Transmittal

SCAT Operations liaisons performed an inspection of the remediated areas of SCAT Area B20 and developed a Post-Inspection Survey Transmittal (POST) associated with the left bank within Area B20, which is presented in Appendix D.

1.9 Summary of Final SCAT Surveys

Figure 5 shows the oiling conditions within Area B20 following completion of oil removal activities. The SCAT team performed final surveys of the left and right banks within SCAT Area B20 to confirm the agreed-upon cleanup endpoints identified in the applicable CTRs had been achieved. The final SCAT survey documentation is presented in Appendix E.

1.10 SCAT Area Conclusions

Based on the final SCAT surveys performed on the left and right banks within Area B20, no further treatment is recommended for these segments. SCAT Segment Sign-Off Forms are included as Appendix F.



**SCAT Area Transition
Report for B20**

Silvertip Pipeline Incident
Laurel, Montana

2. Transition Sign-Off Form

SCAT Area Transition Report for B20

Prepared for:

Unified Command

Date

Unified Command – RP



**SCAT Area Transition
Report for B20**

Silvertip Pipeline Incident
Laurel, Montana

SCAT Area Transition Report for B20

Prepared for:

Unified Command

10/11/2011

Date

[Signature] *S. NEFFERT*

Unified Command – FOSC



**SCAT Area Transition
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Laurel, Montana

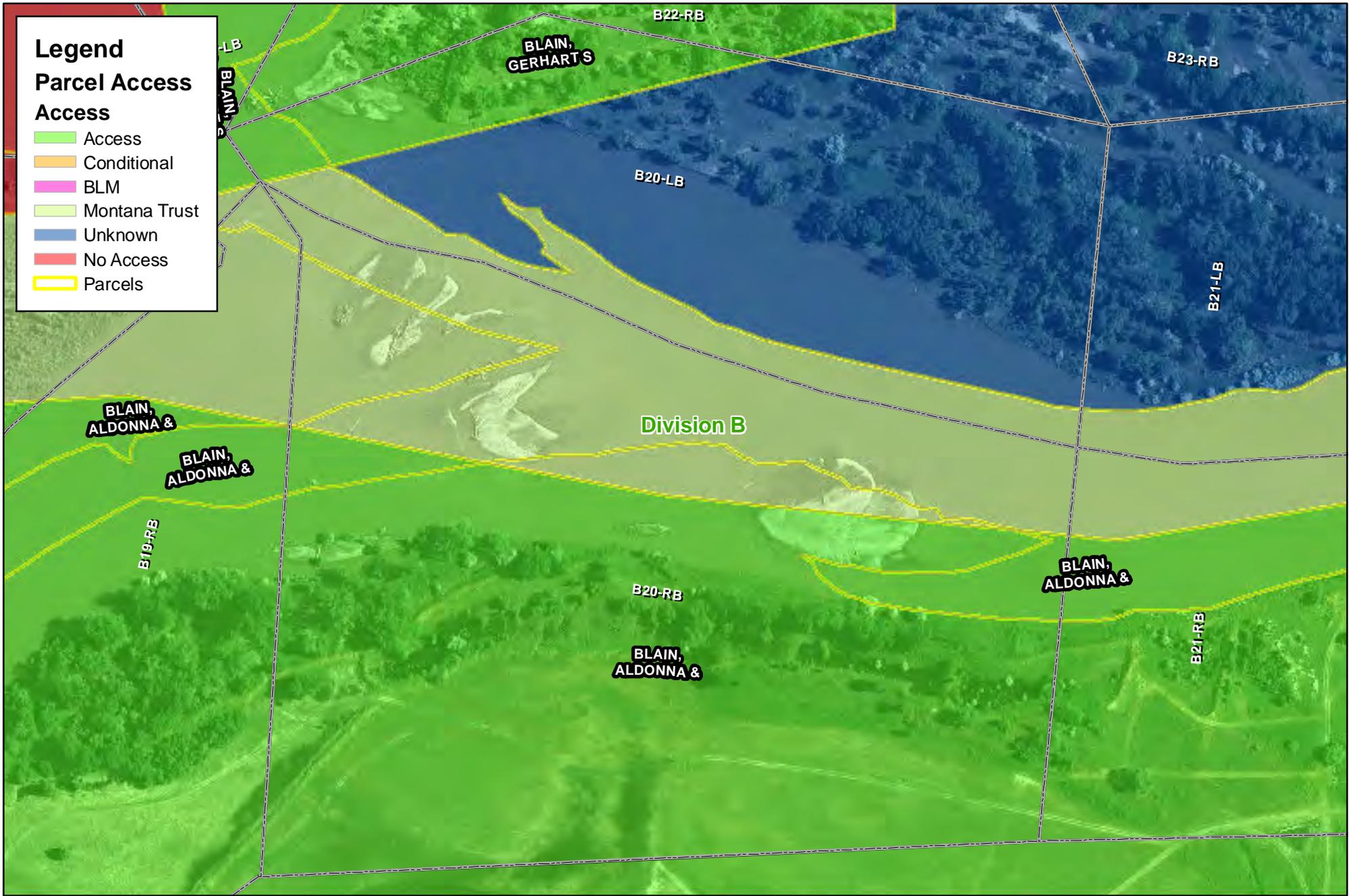
SCAT Area Transition Report for B20

Prepared for:

Unified Command

Date

Unified Command – MDEQ



Legend

Parcel Access

Access

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

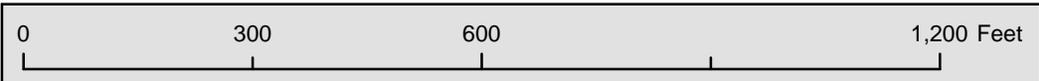


Figure 1

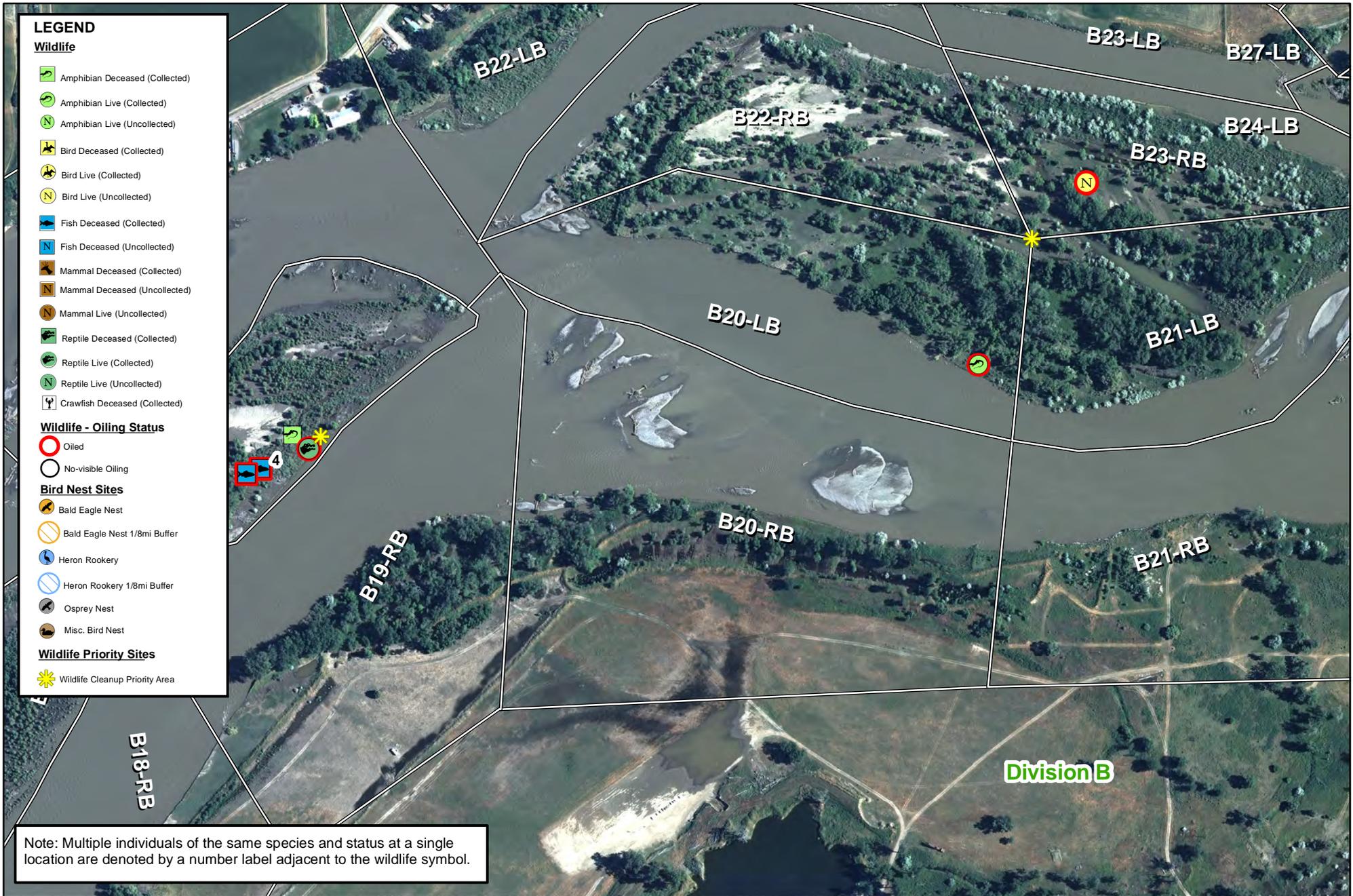
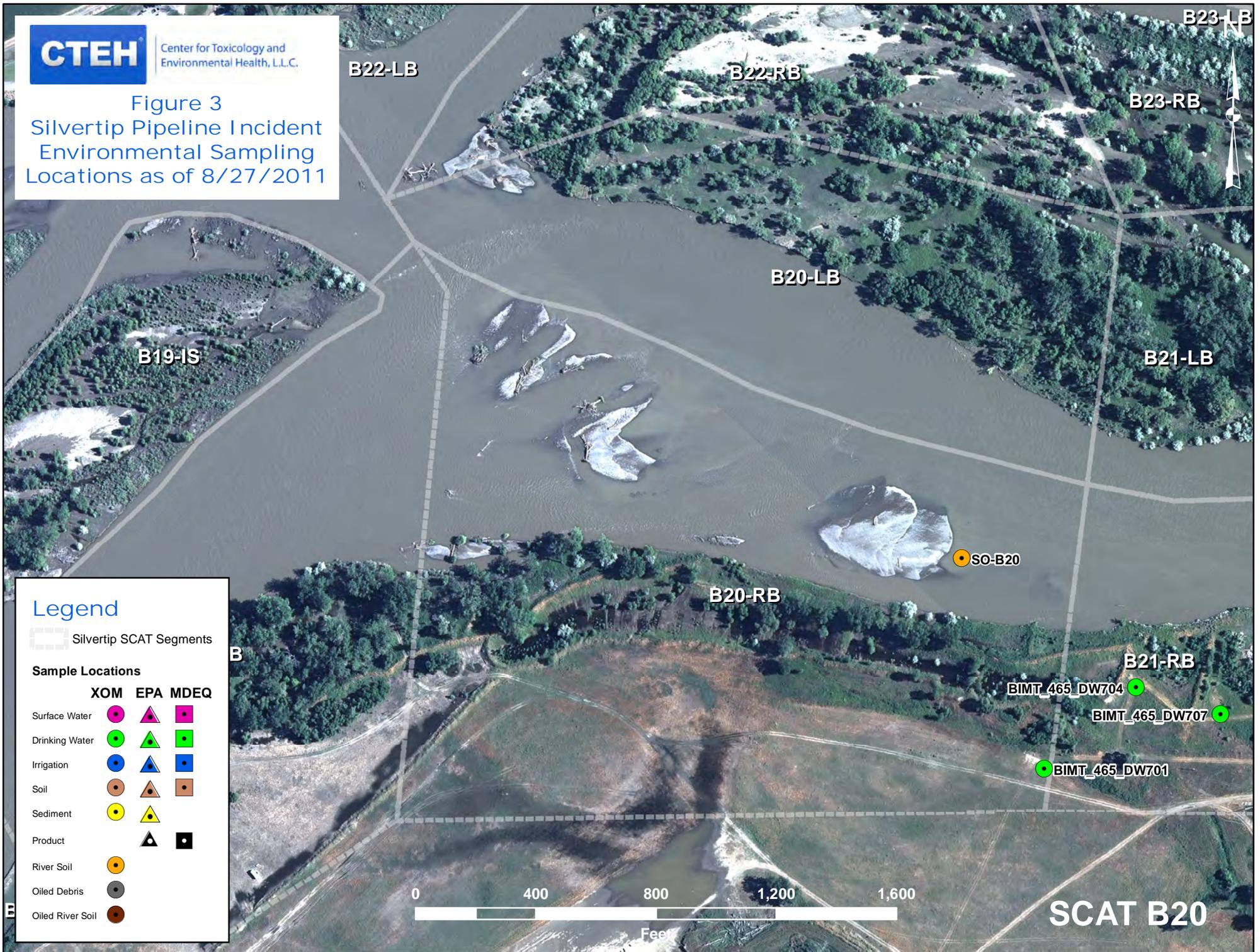


Figure 2
Wildlife Resources



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

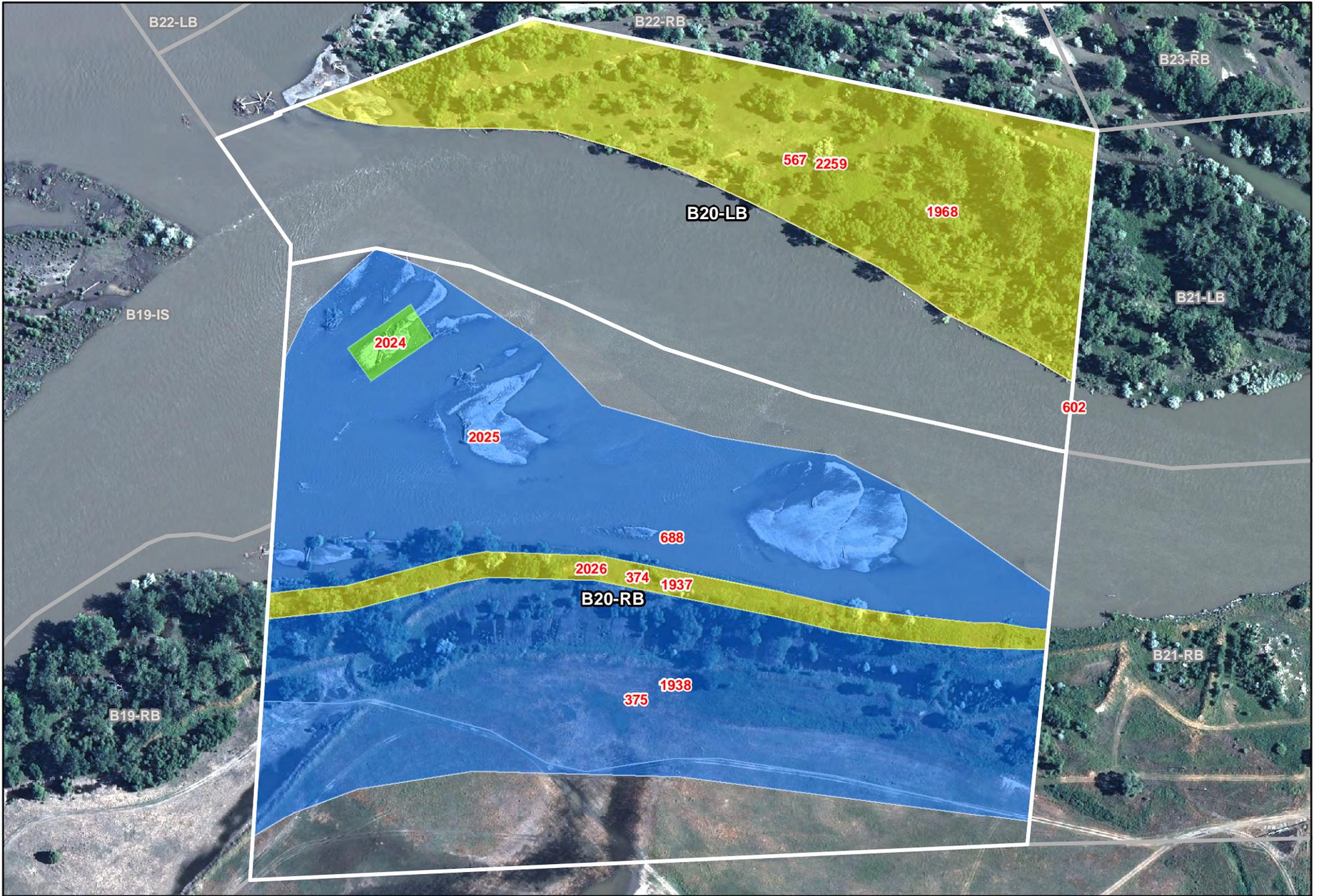
Sample Locations

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

0 400 800 1,200 1,600

Feet

SCAT B20

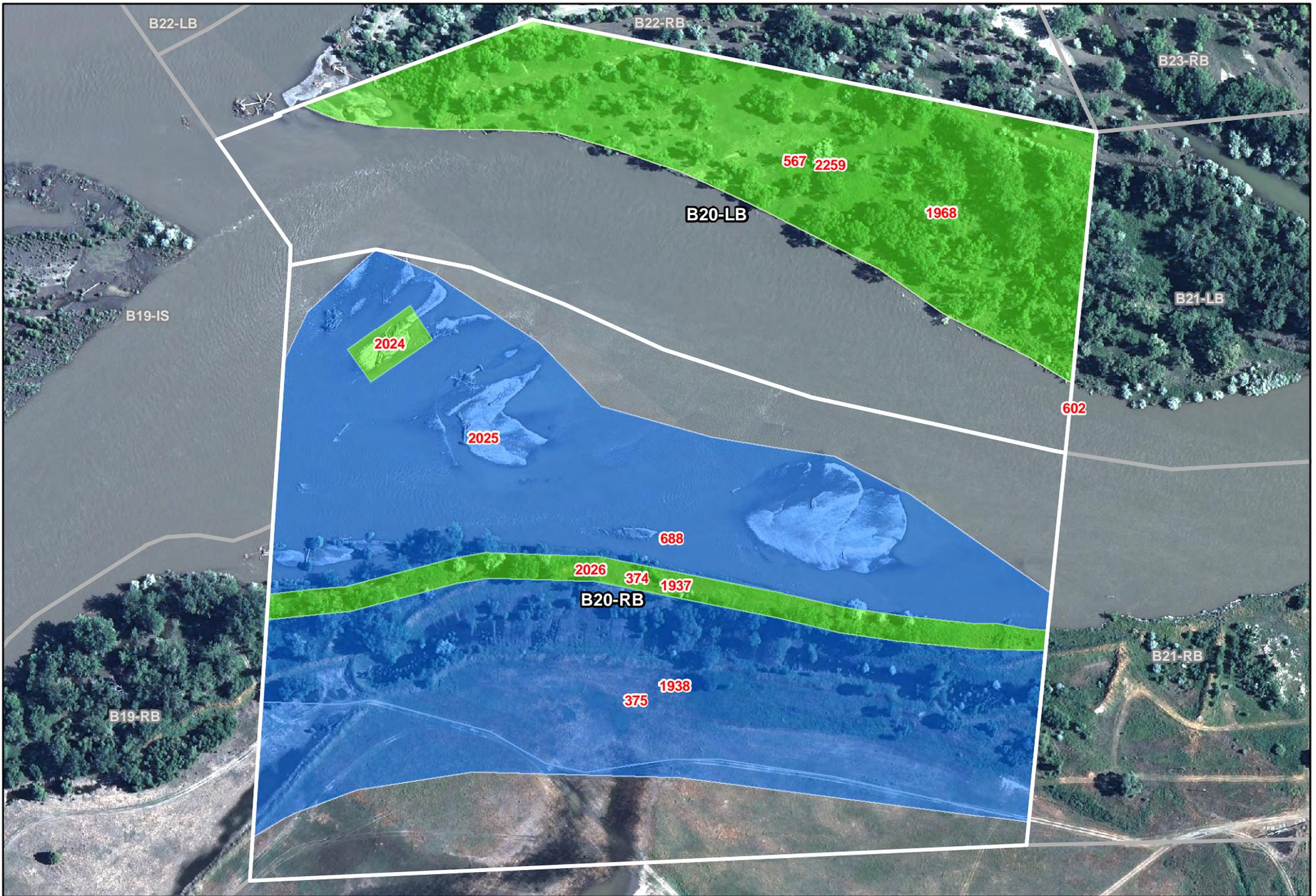


- 9999** Oiling Zone ID
- Heavy Oiling
- Moderate Oiling

- Light Oiling
- Very Light Oiling
- No Oil Observed

Figure 4 - Maximum SCAT Observations For SCAT Area:





- 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 Detections Summary



Detections in Samples Collected in SCAT Area B20

Printed 9/8/2011

NA - Not Available

Detected Above Screening Level

Sample Num	Date	Sample Type	Matrix	Analytical Method	Analyte	Detected	Result	Screening Level	Result Qualifier	Units	Above?
BIMT0823SO501	23-Aug-11	Field	Soil_River	EPA 6010	Arsenic	Y	11.6	40		mg/kg	no
BIMT0823SO501	23-Aug-11	Field	Soil_River	EPA 6010	Barium	Y	76.4	820		mg/kg	no
BIMT0823SO501	23-Aug-11	Field	Soil_River	EPA 6010	Cadmium	Y	0.74	3.8		mg/kg	no
BIMT0823SO501	23-Aug-11	Field	Soil_River	EPA 6010	Chromium	Y	11.1	280		mg/kg	no
BIMT0823SO501	23-Aug-11	Field	Soil_River	EPA 6010	Lead	Y	5.3	400		mg/kg	no
BIMT0823SO501	23-Aug-11	Field	Soil_River	EPA 6010	Nickel	Y	8.6	150		mg/kg	no
BIMT0823SO501	23-Aug-11	Field	Soil_River	EPA 6010	Vanadium	Y	24.2	39		mg/kg	no
BIMT0823SO501	23-Aug-11	Field	Soil_River	EPA 9060	Mean	Y	1230	NA		mg/kg	no
BIMT0823SO501	23-Aug-11	Field	Soil_River	EPA 9060	RSD%	Y	12.9	NA		%	no
BIMT0823SO501	23-Aug-11	Field	Soil_River	EPA 9060	Total	Y	1380	NA		mg/kg	no



Appendix B

Initial SCAT Survey Forms and
Sketches

DB/G/S

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy)	Time (24h): std / daylight	Water Level
Segment/Reach ID: <u>B20</u>	Left Bank / <u>Right Bank</u> / Island	<u>19 / 07 / 11</u>	<u>1136</u> hrs to <u>1156</u> hrs	low - mean / <u>bankfull</u> / overbank
Operations Division: <u>B</u>				<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 # <u>5</u>	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 467 m Segment/Reach Length Surveyed 467 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 S Mixed S Pebble/Cobble P 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 / N 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: river access likely

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

OIL ZONE	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER							SUBST. TYPE(S)		
	MS	LB	UB	OB	Length m	Width m	Distrib. %	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR	AP		NO	
A				X	467		10				P		✓									big bank

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

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

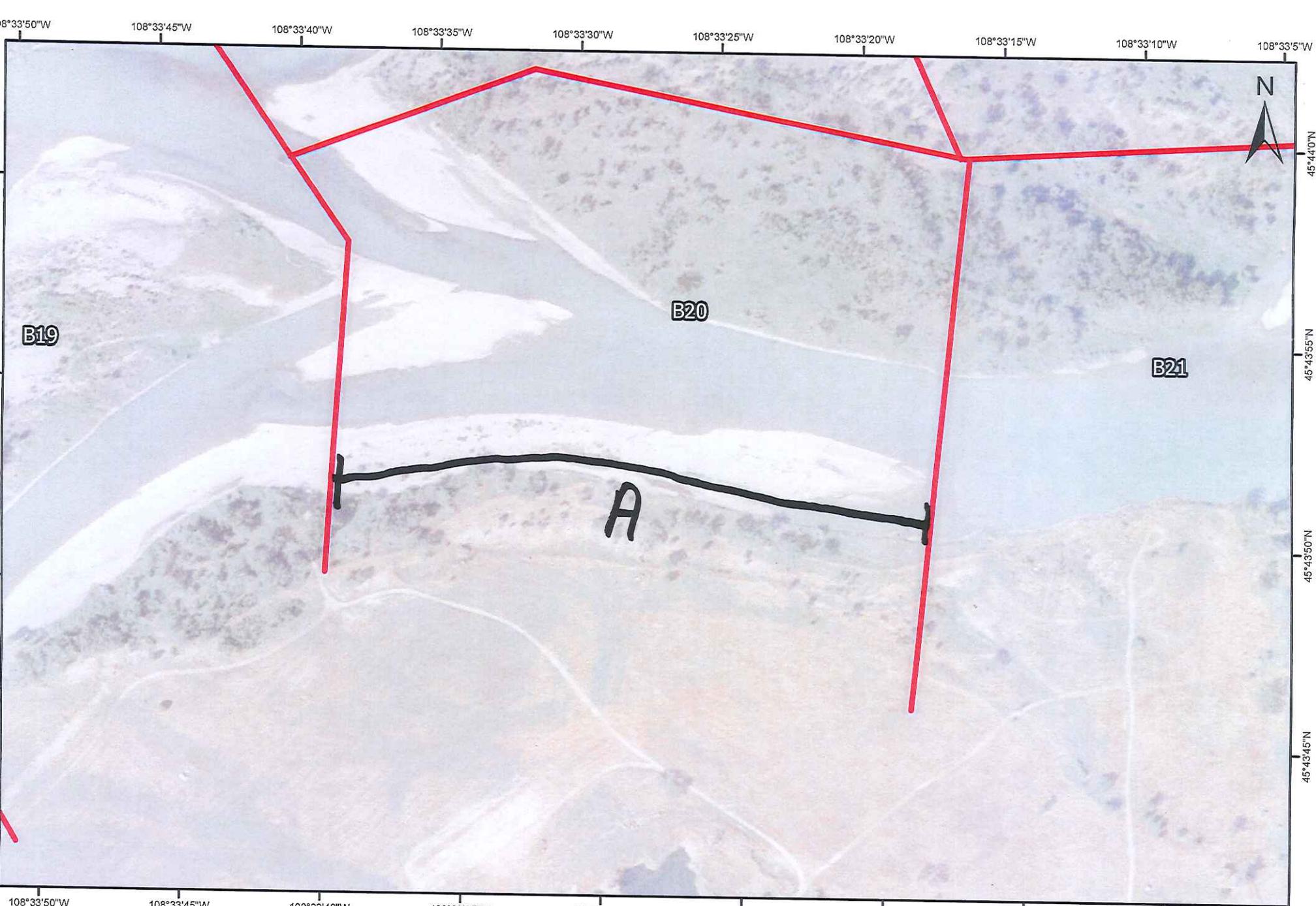
8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

OSR = 4 OSC = unk SSC = unk

5263
5261-5265

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

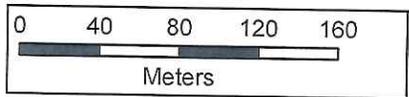
Sketch (Yes/No) Photos (Yes/No (Roll # ___ Frames ___)) Video Tape Yes/No (tape # ___)



B20 -
(L/R/I)??

DATE:
TEAM:

COMMENTS:



DB/6/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>B20</u>	Left Bank / Right Bank / Island	<u>19/07/11</u>	<u>1026</u> hrs to <u>1045</u> hrs	low - mean - bankfull - overbank
Operations Division: <u>B</u>				(falling - steady - rising)
Survey by: <u>(Foot) / ATV / Boat / Helicopter / Overlook /</u>	<u>Sun</u> / Clouds / Fog / Rain / Snow / Windy / Calm			Air Temp +/- <u>28</u> deg C

2 SURVEY TEAM # <u>4</u>	name	organization	contact phone number
	<u>John Williams</u>	<u>Cardno ENTRIX</u>	<u>361 674 8138</u>
	<u>Cornor Kobscki</u>	<u>Cardno ENTRIX</u>	
	<u>Carthay Tyrel</u>	<u>FNP</u>	<u>406 860 7814</u>
	<u>Gary Riley</u>	<u>EPA</u>	<u>415 215 0690</u>

3 SEGMENT	Total Segment/Reach Length <u>4100</u> m	Segment/Reach Length Surveyed <u>1000</u> m
Start GPS: LATITUDE <u>45</u> deg. <u>43.855</u> min.	LONGITUDE <u>109</u> deg. <u>33.662</u> min.	Datum: <u>WGS 84</u>
End GPS: LATITUDE <u>45</u> deg. <u>43.839</u> min.	LONGITUDE <u>108</u> deg. <u>33.308</u> min.	

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

4B RIVER VALLEY CHARACTER	select as appropriate	complete for primary
Cliff or Bluff: <u>Est Height 1</u> m	canyon <u>manmade</u> meander <u>confined or leveed</u>	Substrate Type: <u>veg</u>
Sloped: <u>D (>5°)(15°)(30°)</u>	straight <u>braided</u> oxbow <u>flood plain valley</u>	Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER	circle or select as appropriate
est. width: <1m <u>1-10m</u> 10-100m <u>>100m</u> m	est. water depth: <1m <u>1-3m</u> 3-10m <u>>10m</u> m
shoal(s) present <u>(Y)N</u>	bar-shoal substrate: silt / sand / gravel <u>cobble</u> / boulder / bedrock / debris
seasonal water level: low / mean / <u>bank full</u> / 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: Y/ <u>(N)</u> oiled Y/ <u>(N)</u> amount <u>bags or trucks</u>	access restrictions	
Oiled trees/shrubs Y/ <u>(N)</u>	River Current strong <u>(Y)N</u>	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>S</u>	<u>P</u>	<u>S</u>	<u>4100</u>	<u>15</u>	<u>40</u>			<u>S</u>	<u>P</u>						<u>P</u>					<u>veg</u>
B				<u>P</u>	<u>4100</u>	<u>160</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: Amount of oiled vegetation does not warrant removal - no treatment recommended.

Zone B: No oiling - no treatment recommended

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

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

7/19/2011

B19.

B20



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©2010

Image USDA Farm Service Agency

45° 43.887' N 108° 33.661' W elev 3156 ft

1996

08/6

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 19-Jul-2011	Time (24h): std / daylight 1042 hrs to 1046 hrs	Water Level low - mean - <u>bankfull</u> - overbank falling - steady - rising
Segment/Reach ID: <u>B20</u> (Left Bank / Right Bank / Island)		Operations Division: B		Air Temp +/- <u>31</u> deg C
Survey by: Foot / ATV / <u>Boat</u> / Helicopter / Overlook /		Sun / Clouds / Fog / Rain / Snow / <u>Windy</u> / Calm		

2 SURVEY TEAM # <u>1</u>	name	organization	contact phone number
Pete Lee	<u>PBL</u>	Polaris	
Larry Alheim	<u>LA</u>	MTDEQ	
Andy Johnson	<u>Austin West</u>	USCG	<u>[Signature]</u>

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 307 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 80m 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 N Access: Direct from backshore Y/N N Alongshore from next segment Y/N N

Debris Y/N oiled Y/N amount 100 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	
<u>602</u> A				X	<u>307</u>	<u>1</u>	<u>100</u>			X	X		X								<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				

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

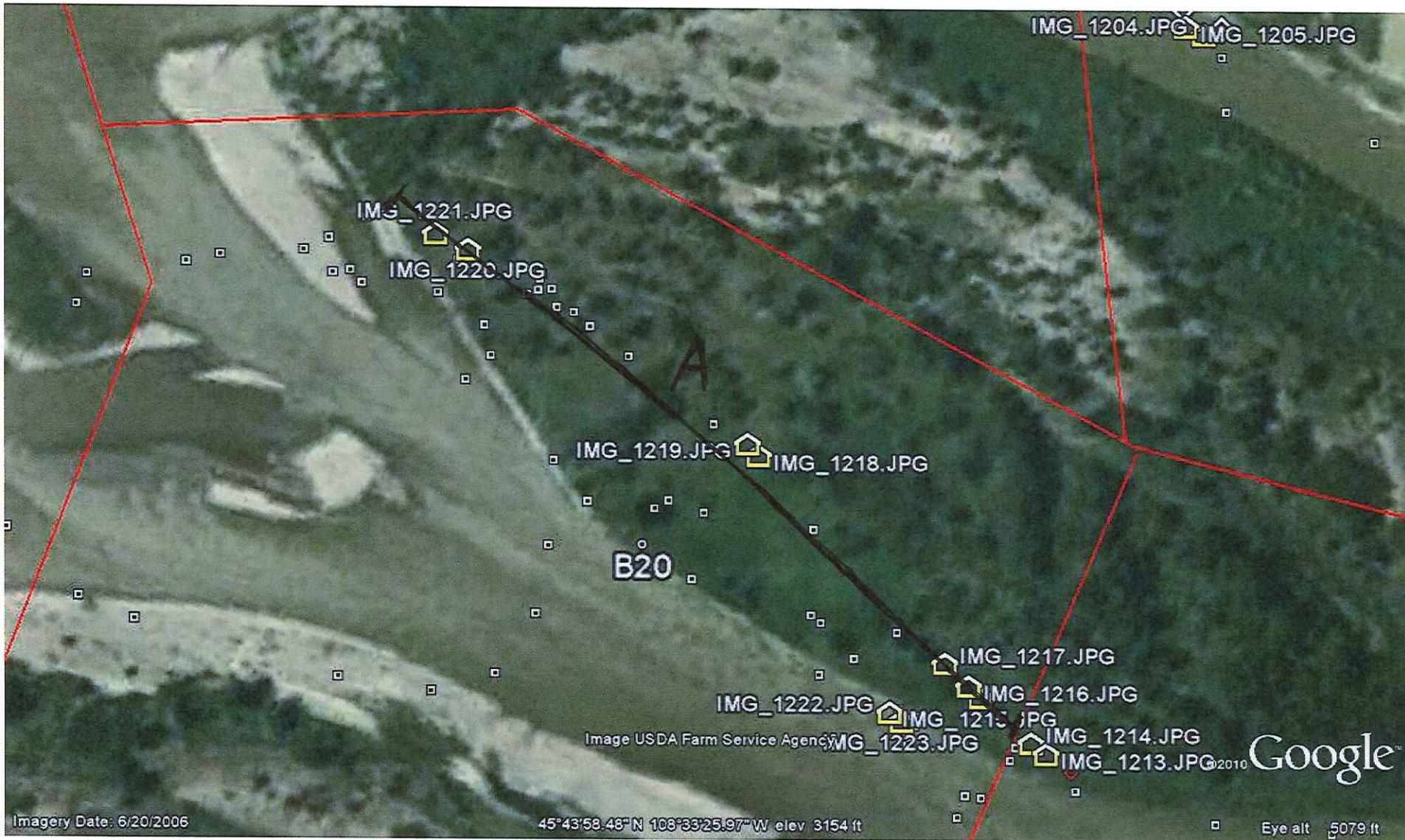
Overbank Survey Required Y/N Overbank Survey Completed Y/N Shoreline Survey Completed Y/N
 Oil band heights: 40 cm

Treatment Recommendations:
 Zone _____: No oil observed; no treatment required.

Zone A: 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 Yes / No Photos Yes / No Frames 1213-1223 Lee



DB/6

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>B90</u> (Left Bank / Right Bank / Island)		<u>24/07/11</u>	<u>0830</u> hrs to <u>1200</u> hrs	low - mean - bankfull - overbank
Operations Division: <u>B</u>		Survey by: (Foot) <u>ATV / Boat / Helicopter / Overlook /</u> (Sun / Clouds / Fog / Rain / Snow / Windy / Calm)		falling - steady - rising
				Air Temp + / - <u>19</u> deg C

2 SURVEY TEAM # <u>3</u>	Name	Organization	Signature
	<u>Nick Taylor</u>	<u>FWP</u>	<u>Nick Taylor</u>
	<u>JANICE WITUL</u>	<u>US EPA</u>	<u>Janice Witul</u>
	<u>Joe Boyle</u>	<u>Coord. ENTRIX</u>	<u>Joe Boyle</u>

3 SEGMENT Total Segment/Reach Length 500 m Segment/Reach Length Surveyed 500 m

Start GPS: LATITUDE 45 deg. 44.017 min. LONGITUDE 108 deg. 33.592 min. Datum: WGS84

End GPS: LATITUDE 45 deg. 44.016 min. LONGITUDE 108 deg. 32.990 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 (S) Pebble/Cobble (S) Boulder (S) Peat/Organic (S) Vegetated Bank: (P) Wooded Upland: (S)

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

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

Cliff or Bluff: Est Height 5 m canyon (S) manmade (S) meander (S) confined or leveed (S) Substrate Type: MS, D

Sloped: (S) (>5°)(15°)(30°) 25° straight (S) braided (S) oxbow (S) flood plain valley (S) Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m >100m 160m 130m est. water depth: <1m 1-3m 3-10m >10m (S) m

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

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

5 OPERATIONAL FEATURES Suitable backshore staging (S) Access: Direct from backshore (S) Alongshore from next segment (S)

Debris: (S) oiled (S) amount (S) bags or (S) trucks access restrictions island, dense veg, mud

Oiled trees/shrubs (S) River Current strong (S) 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>(S)</u>	<u>(P)</u>	<u>500</u>	<u>150</u>	<u>30</u>		<u>(S)</u>	<u>(S)</u>	<u>(S)</u>										<u>mud</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

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

Zone A: widespread patchy oil stained/coated vegetation with ~15 piles of oil coated debris (flagged) and ~15 areas of oil coated/covered matted down grass.

Recommendations: cut/trim oiled vegetation, hand removal of oiled debris & oil matted veg.

Sketch Yes / No Photos Yes / No Frames Photographer

7/23/2011
2011

B22

B23

104
105

106

108

109

ZONE A

ZONE A

B20

107

B21

Image USDA Farm Service Agency

635 ft

©2010

© 2011 Google

lat 45.733496° lon -108.555157° elev 3152 ft

1996



Appendix C

Pre-Inspection Survey Transmittal

SCAT – Pre Inspection Survey Transmittal (PIST) Memo

Survey Date: 28 AUG 2011

Segment: B-20 RB

Team: SCAT Liaison PETE PEITCHARD Signed: [Signature]

Observer HERB WOOD Signed: [Signature]

Observer _____ Signed: _____

Observer _____ Signed: _____

Segment meets criteria? YES X NO _____

RBOS attached? YES _____ NO X

If NO:
Location Sketch attached? YES _____ NO X

CTR continue? YES _____ NO X

Comments:



Appendix D

Post-Inspection Survey Transmittal

POST

Post Inspection Survey Transmittal

Segment B20 LB

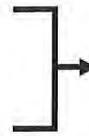
Date of Survey 8/30/11

SCAT Team Member Nathan Hammond Signed: Nathan Hammond

SCAT Team Member Justin Hawkaluk Signed: Justin Hawkaluk

SCAT Team Member Austin West Signed: Austin West

Segment FAILED ReSCAT



Referred to Ops For Further Treatment

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.

Concentrate Op's activity on flagged areas - all other areas refer to ATM 7

Zone Dimensions: Length _____ Width _____ GPS Waypoint: Lat. SEE Map Long. _____
(required) (center of zone)

Estimated Work Effort: Number of People 10 Hours of Work 8 Applicable CTR(s) 21
(required)

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

Sign Name _____ Print Name/ Affiliation _____ Date _____

Sign Name _____ Print Name/ Affiliation _____ Date _____

59 am 8/30/2011 5:01 pm 5 pm



TEAM 6
B20 LB
8/30/11

Image © 2011 GeoEye
© 2011 Google

45°43'59.02" N 108°33'29.21" W elev 3158 ft

09 1996

©2010



Appendix E

Final SCAT Survey Forms and
Sketches

D1316

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 28/08/11	Time (24h): std / daylight 1230 hrs to 1500 hrs	Water Level low <input checked="" type="radio"/> mean - bankfull - overbank falling - steady - rising
Segment/Reach ID: <u>B20</u> Left Bank / Right Bank / Island		Operations Division: B		
Survey by: <u>Foot / ATV / Boat / Helicopter / Overlook /</u>		<u>Sun</u> / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>30</u> deg C

2 SURVEY TEAM # 2	Name	Organization	Signature
Pete Lee	Polaris		<i>Pete Lee</i>
Eric Harlow	Cardno ENTRIX		<i>Eric Harlow</i>
Griff Miller	USEPA		<i>Griff Miller</i>
Marcile Sigler	MTDEQ		<i>Marcile Sigler</i>
Dave Hergenrider	MTFWP		<i>Dave Hergenrider</i>

3 SEGMENT Total Segment/Reach Length 460 m Segment/Reach Length Surveyed 460 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 X 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 m >10m m

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

seasonal water level: low / 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 Y / N amount _____ bags or _____ trucks Access restrictions: Private Landowners

Oiled trees/shrubs 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>	460	30	<1				<u>X</u>						<u>X</u>					Grass, trees, debris
B				<u>X</u>	460	100															<u>X</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: 30-90 cm

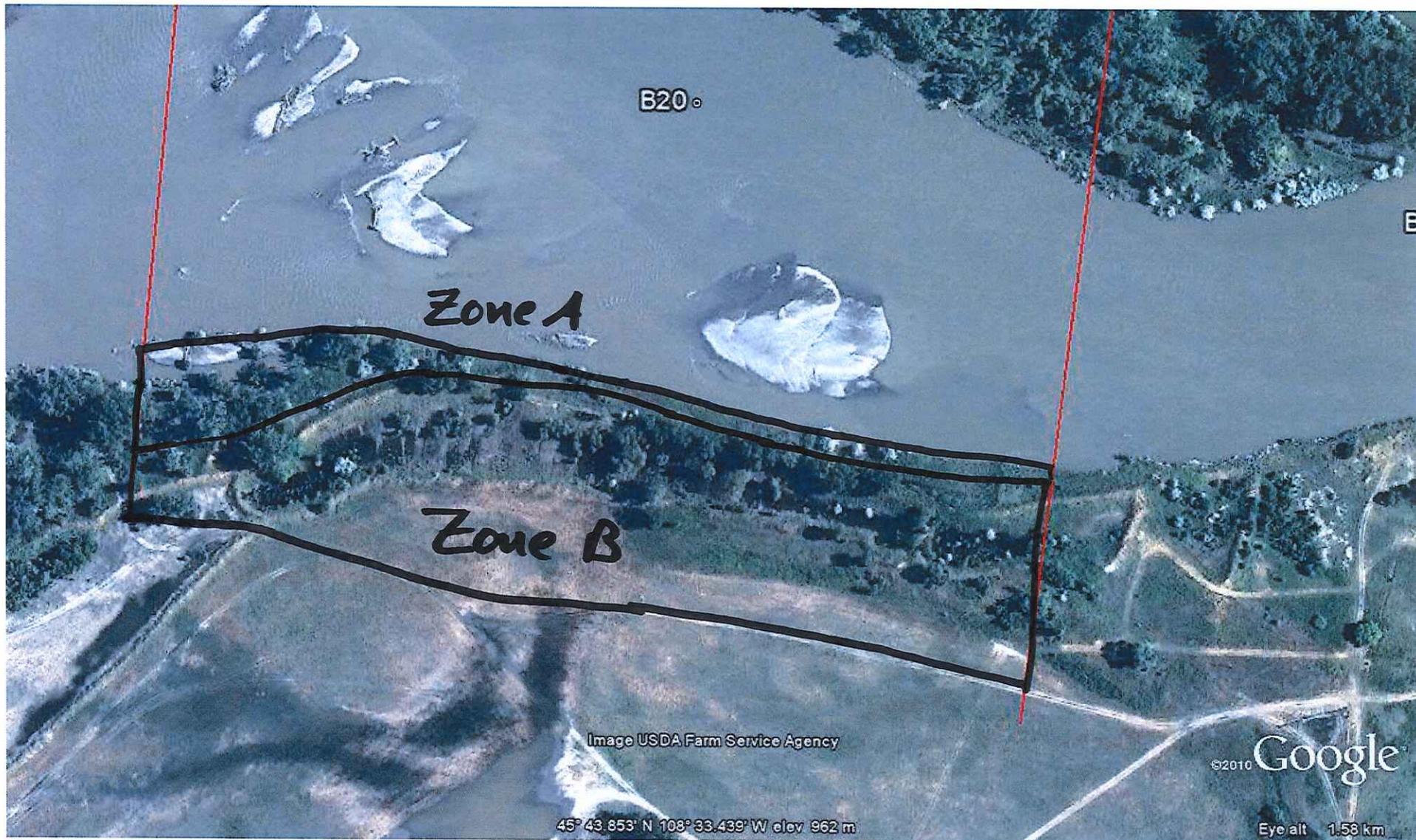
Treatment recommendations: **RESCAT**

Zone A : No further treatment required.

Zone B : NOO

Ops Hot Shot (Rich Jessup)

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



B20

Zone A

Zone B

Image USDA Farm Service Agency

©2010 Google

45° 43.853' N 108° 33.439' W elev 962 m

Eye alt 1.58 km

RESCAT
B20 RB
TZ - 8/28/11

DB/G

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 01/09/11	Time (24h): std / daylight 1000 hrs to 1130 hrs	Water Level low - mean - bankfull - overbank falling - steady - rising
Segment/Reach ID: B20 Left Bank (Right Bank / Island)				
Operations Division: B				
Survey by: (Foot) ATV / Boat / Helicopter / Overlook /		Sun / (Clouds) / Fog / Rain / Snow / Windy / (Calm)	Air Temp +/- 20 deg C	

2 SURVEY TEAM # 6	Name	Organization	Signature
	Nathan Hammond	Cardno Entrix	<i>Nathan Hammond</i>
	Austin West	USCG	<i>Austin West</i>
	Jay Watson	FWP	<i>Jay Watson</i>

3 SEGMENT Total Segment/Reach Length 460 m Segment/Reach Length Surveyed 460 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 _____ 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 oxbow _____ flood plain valley _____ Forested / (Vegetated) / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

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

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

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

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

Debris (Y/N) oiled (Y/N) amount 1/2 bags or _____ trucks access restrictions Gravel processing area

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

2024
2025
2026

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				45	25	<1			S	P						X				Debris
B	P	S			460	85	0														✓
C			P	S	460	25	<1			S	P						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				

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 - Hot Shot crew utilized ATM 2; No Further Treatment

Zone B - NOD - No treatment required

Zone C - Hot Shot Crew utilized ATM 1, ATM 2, ATM 9; No Further Treatment recommended. 1/2 bag removed.

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

9/1/2011 5:55 pm

9/1/2011

B20-LB

ZONE A - VERY LIGHT NFT
ZONE B - NOO

B20-RB

ZONE C
VERY LIGHT
NFT

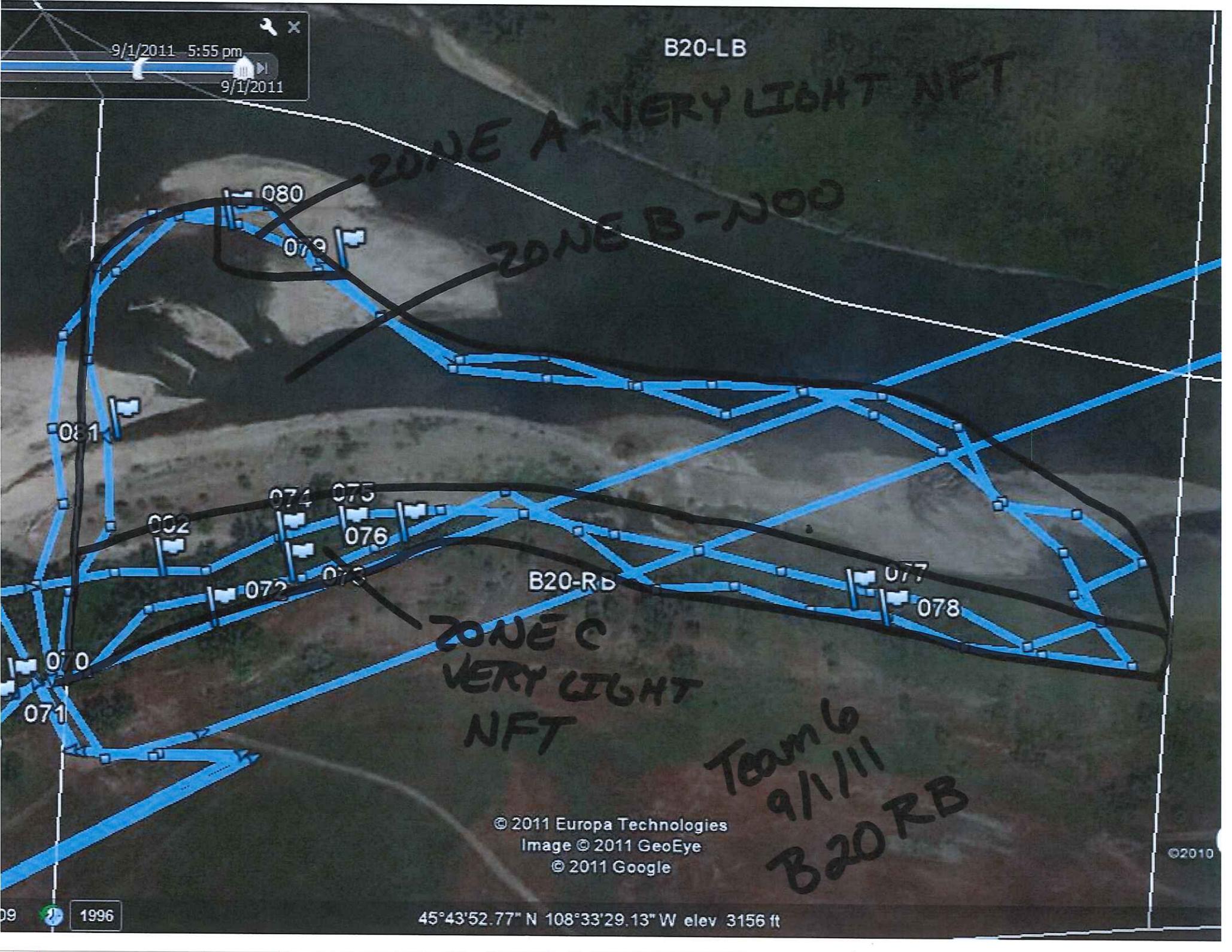
Team 6
9/1/11
B20RB

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Image © 2011 GeoEye
© 2011 Google

© 2010

45°43'52.77" N 108°33'29.13" W elev 3156 ft

09 1996



DB/G

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>B25</u>	<u>Left Bank</u> / Right Bank / Island	<u>11/9/2011</u>	<u>9:50</u> hrs to <u>14:00</u> hrs	<u>low</u> - mean - bankfull - overbank
Operations Division: <u>B</u>		<u>Sun</u> / Clouds / Fog / Rain / Snow / Windy / Calm		<u>falling</u> - steady - rising
Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook /				Air Temp +/- <u>30</u> deg C

2 SURVEY TEAM # <u>2</u>	Name	Organization	Signature
	<u>Herlo GAUVREAU</u>	<u>Polaris</u>	<u>[Signature]</u>
	<u>Shawn Briggs</u>	<u>FWP</u>	<u>[Signature]</u>

3 SEGMENT Total Segment/Reach Length 518 m Segment/Reach Length Surveyed 518 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: 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

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 _____ Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

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

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

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

5 OPERATIONAL FEATURES

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

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

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

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

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER						SUBST. TYPE(S)		
	MS	LB	UB	OB	Length m	Width m	Distrib. %	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR		AP	NO
A			<u>S</u>	<u>P</u>	<u>518</u>	<u>70</u>	<u><1</u>				<u>P</u>							<u>X</u>			<u>veg. Debris</u>

2259

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

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

Zone A: Stain on trees and vegetation and large debris meet the conditions of the C.T.R., NFT

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

TEAM #2
9/11/2011
B20

B22

2/2

B23

X NFT

A

B20

B21

Image © 2011 GeoEye

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Appendix F

Completed SCAT Segment Sign-Off
Forms

SCAT SEGMENT OPERATIONS COMPLETION SIGN-OFF SHEET

SILVERTIP PIPELINE RELEASE

Segment B20 RB Date of Survey 8/28/11

Dates of Initial SCAT Assessments _____
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment 24

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] Gina Miller USEPA 8-28-11
Sign Name Print Name/ Affiliation Date
Federal Representative (EPA/USCG)

[Signature] Dave Hergenrider 8/28/2011
Sign Name Print Name/ Affiliation FWP Date
State Representative (DEQ/FWP)

[Signature] David Eric Harlow Cardno ENTRIX 8/28/11
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 B20RB Date of Survey 9/1/11

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

CTR(s) Associated with SCAT Segment 24

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).

Austin West AUSTIN WEST USCG 9/1/11
Sign Name Print Name/ Affiliation Date
Federal Representative (EPA/USCG)

Jay Watson JAY WATSON FWP 9/1/11
Sign Name Print Name/ Affiliation Date
State Representative (DEQ/FWP)

Nathan Hammond NATHAN HAMMOND / CERRILLO 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 B202B Date of Survey 11/09/2011

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

CTR(s) Associated with SCAT Segment 21

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).

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

[Signature] Shawn Briggs MTFWP 9/11/2011

Sign Name _____ Print Name/ Affiliation _____ Date _____
State Representative (DEQ/FWP)

[Signature] Herlo GAUVREAU, Paris 11/9/2011

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.