

ExxonMobil Pipeline Company

**SCAT Area Transition Report for
B22**

Silvertip Pipeline Incident
Laurel, Montana

October 21, 2011



SCAT Area Transition Report for B22

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Laurel, Montana

Prepared for:
ExxonMobil Pipeline Company

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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 B22, 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 B22. 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 B22, 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 B22 is 17.3. There was a partial access issue for the left 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 B22. One possibly oiled otter (*Lontra canadensis*) was reported by the public; this animal was not subsequently observed by incident response biological staff. 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, and 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 B22.

1.3 Summary of Environmental Sampling

Table 1 (below) summarizes samples collected within Area B22. 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 B22 are provided on Figure 3.

Table 1 Environmental Sampling Summary

Agency	Sample Num	Date	Matrix	Location	Latitude	Longitude
CTEH	LAMT0708DW303	08-Jul-11	Water_Drinking	LAMT_32	45.7356339	-108.5563354
CTEH	LAMT0711DW101	11-Jul-11	Water_Drinking	LAMT_32	45.73654	-108.55791
CTEH	LAMT0711DW101DUP	11-Jul-11	Water_Drinking	LAMT_32	45.73654	-108.55791
MDEQ	ST-072011-CR1	20-Jul-11	Soil_Surface	ST-CR-01	45.73523	-108.56136
MDEQ	ST-072011-CR1-D	20-Jul-11	Soil_Surface	ST-CR-01	45.73523	-108.56136
MDEQ	ST-072011-CR2	20-Jul-11	Soil_Surface	ST-CR-02	45.73539	-108.56089
MDEQ	ST-072011-CR-BG	20-Jul-11	Soil_Surface	ST-CR-03	45.73535	-108.56147
EPA	SPDW101_071111	11-Jul-11	Water_Drinking	SPDW101	45.7358	-108.5614
EPA	SPDW102_071111	11-Jul-11	Water_Drinking	SPDW102	45.7358	-108.5614
EPA	SPSE111_071311	13-Jul-11	Sediment	SPSE111	45.735419	-108.5559774

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 was one exceedance for total extractable hydrocarbons.

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 B22 are included in Appendix B. Figure 4 provides the maximum oiling zones observed by the SCAT team during the initial surveys of Area B22.

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. 43](#)).

1.6 Oil Removal Activities

Oil removal activities were conducted within Area B22 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

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

1.8 Post-Inspection Survey Transmittal

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

1.9 Summary of Final SCAT Surveys

Figure 5 shows the oiling conditions within Area B22 following completion of oil removal activities. The SCAT team performed final surveys of the left and right banks within SCAT Area B22 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 B22, no further treatment is recommended for these segments. SCAT Segment Sign-Off Forms are included as Appendix F.



**SCAT Area Transition
Report for B22**

Silvertip Pipeline Incident
Laurel, Montana

2. Transition Sign-Off Form

SCAT Area Transition Report for B22

Prepared for:

Unified Command

Date

Unified Command – RP



**SCAT Area Transition
Report for B22**

Silvertip Pipeline Incident
Laurel, Montana

SCAT Area Transition Report for B22

Prepared for:

Unified Command

Date

Unified Command – FOSC



**SCAT Area Transition
Report for B22**

Silvertip Pipeline Incident
Laurel, Montana

SCAT Area Transition Report for B22

Prepared for:

Unified Command

Date

Unified Command – MDEQ



Legend

Parcel Access

Access

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

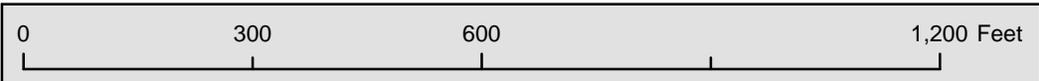
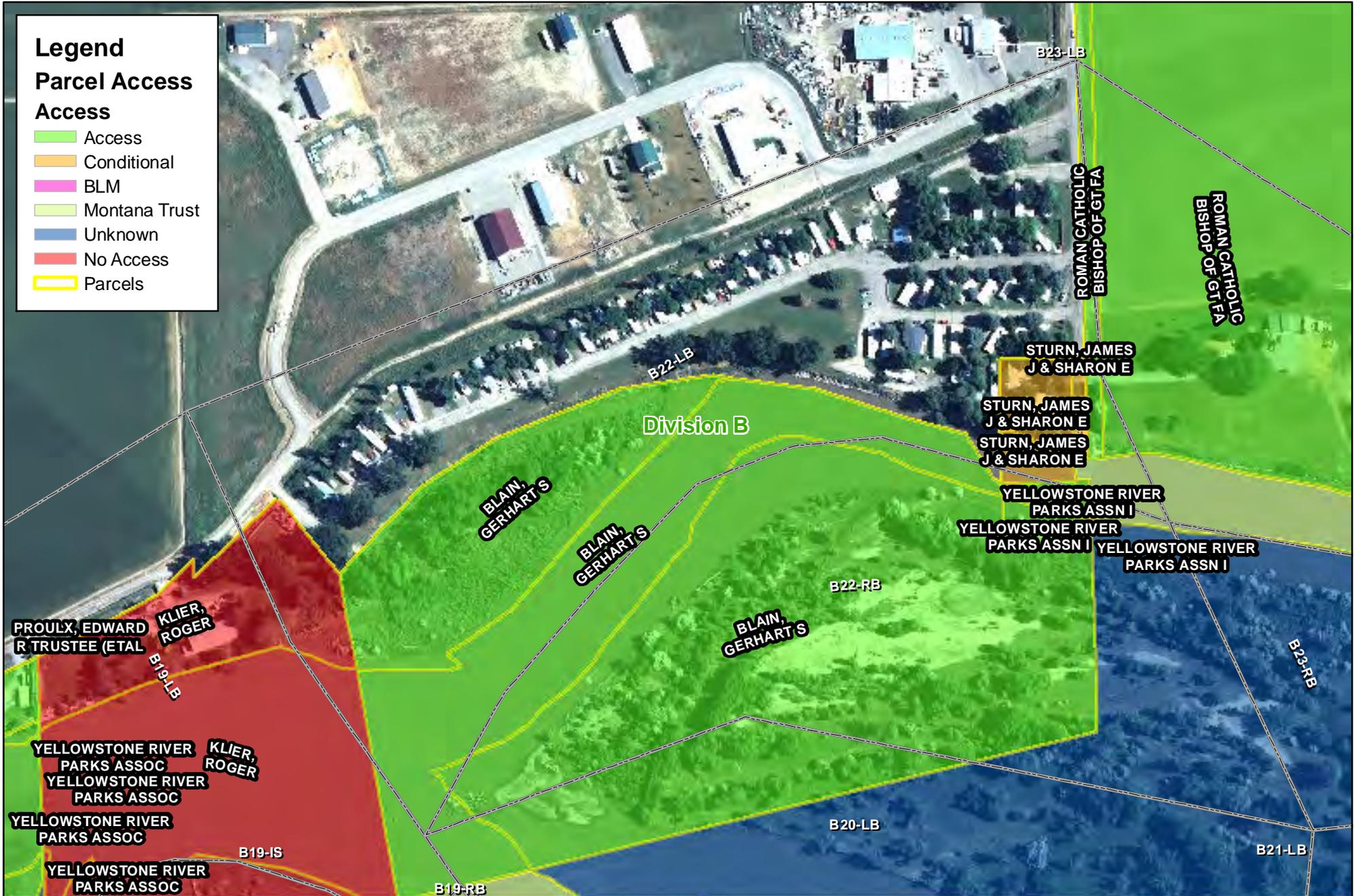


Figure 1

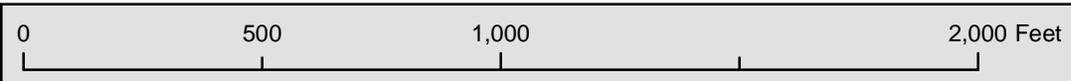
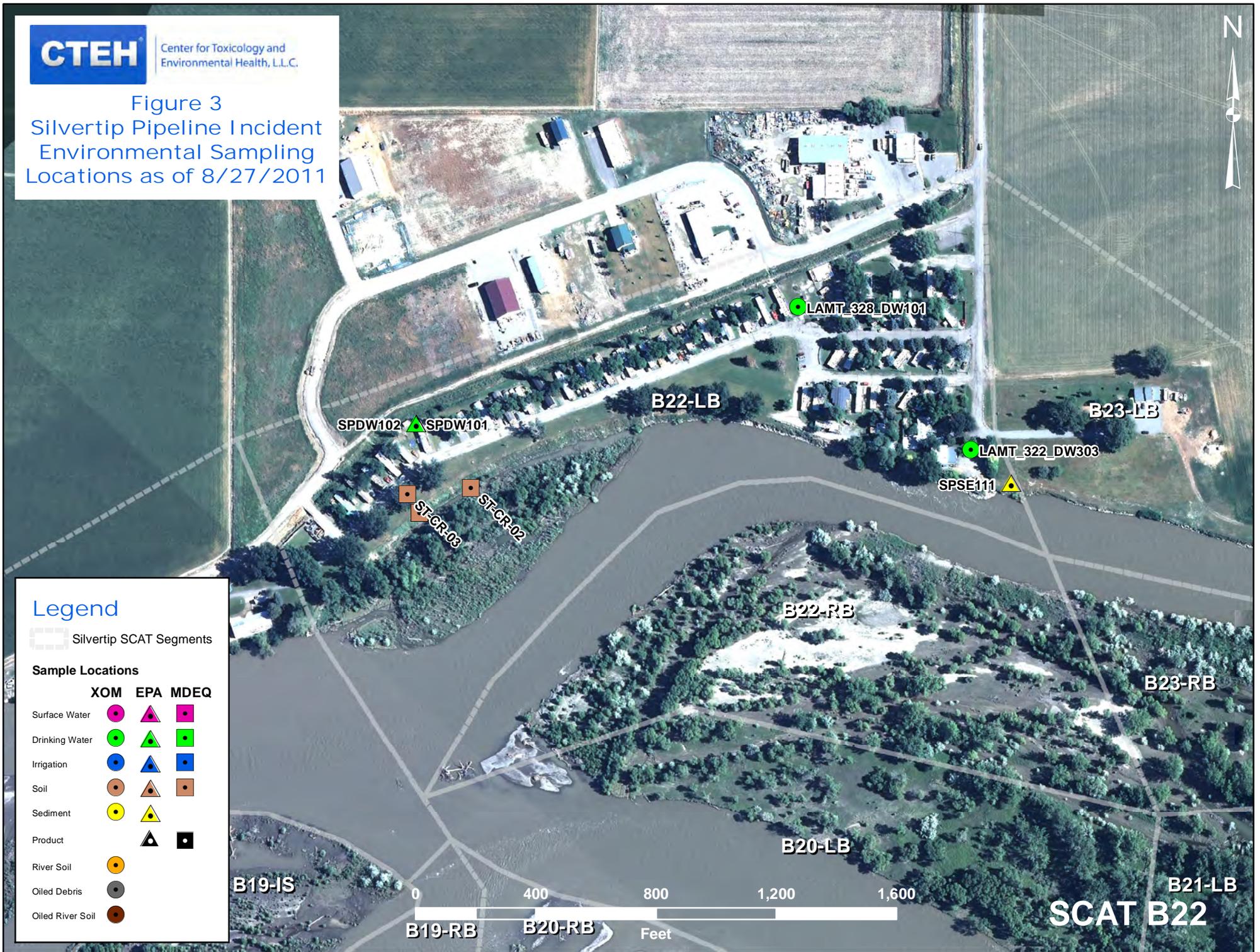


Figure 2
Wildlife Resources

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



Legend

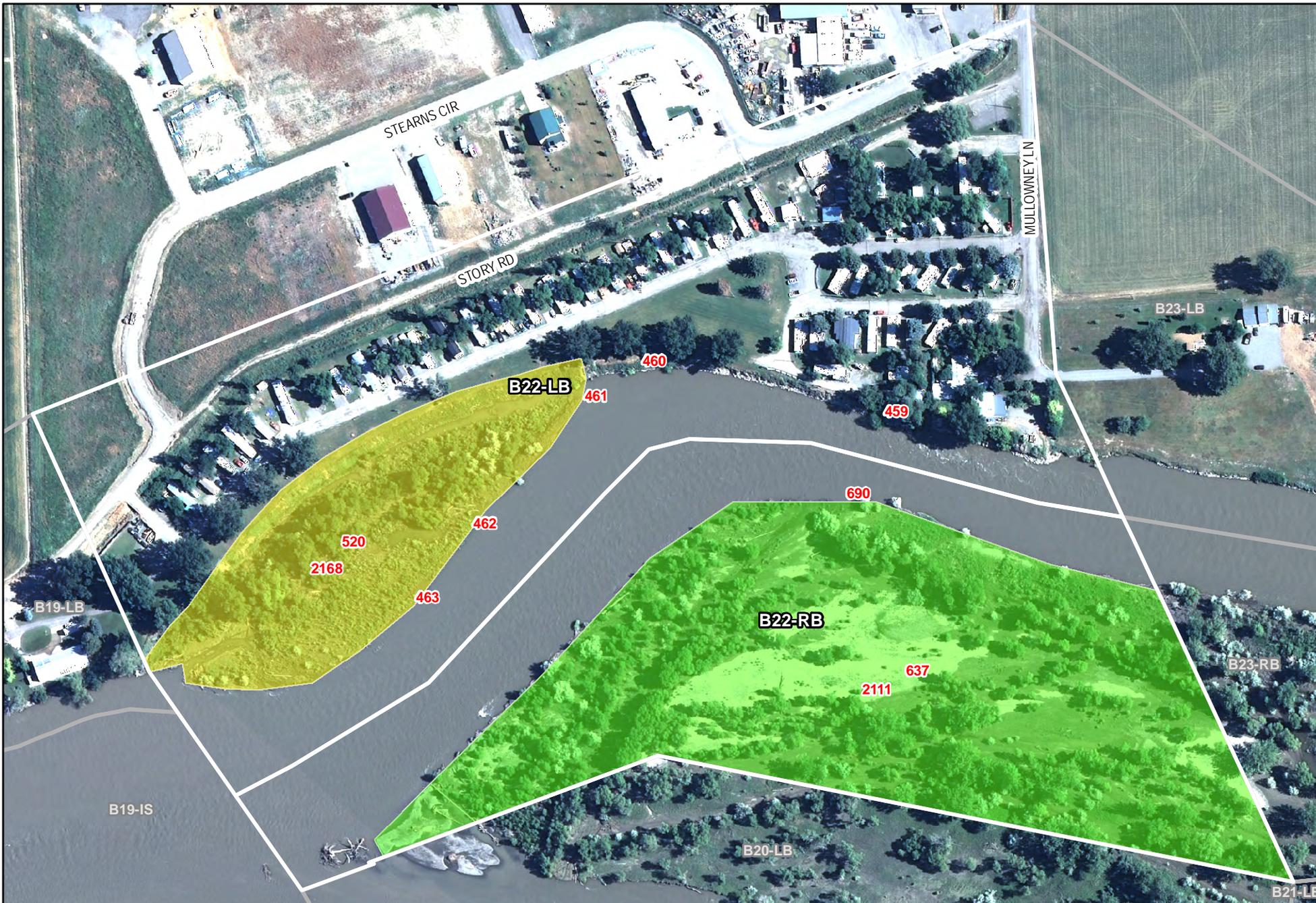
Silvertip SCAT Segments

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

B21-LB
SCAT B22



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

Figure 4 - Maximum SCAT Observations For SCAT Area: B22



- 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 B22

NA - Not Available

Detected Above Screening Level

Sample Num	Date	Sample Type	Matrix	Analytical Method	Analyte	Detected	Result	Screening Level	Result Qualifier	Units	Above?
LAMT0708DW303	07/08/2011	Field	Water_Drinking	E524.2	Chloroform	Y	0.33	70		ug/L	no
LAMT0708DW303	07/08/2011	Field	Water_Drinking	E524.2	Trihalomethanes, Total	Y	0.33	100		ug/L	no
SPDW101_071111	07/11/2011	Field	Water_Drinking	EPA 524.2	Methylene Chloride	Y	1	5		ug/L	no
ST-072011-CR1		Field	Soil_Surface	8260B	1,2-Dichloroethane-d4	Y	88	NA		%	no
ST-072011-CR1		Field	Soil_Surface	8270C	2,4,6-Tribromophenol	Y	103	NA		%	no
ST-072011-CR1		Field	Soil_Surface	8270C	2-Fluorobiphenyl	Y	96	NA		%	no
ST-072011-CR1		Field	Soil_Surface	8260B	Dibromofluoromethane	Y	101	NA		%	no
ST-072011-CR1		Field	Soil_Surface	8270C	Nitrobenzene-D5	Y	84	NA		%	no
ST-072011-CR1		Field	Soil_Surface	8270C	o-Fluorophenol	Y	79	NA		%	no
ST-072011-CR1		Field	Soil_Surface	8015M-MDEQ-REM	o-Terphenyl	Y	86	NA		%	no
ST-072011-CR1		Field	Soil_Surface	8260B	p-Bromofluorobenzene	Y	111	NA		%	no
ST-072011-CR1		Field	Soil_Surface	8270C	Phenol-d5	Y	85	NA		%	no
ST-072011-CR1		Field	Soil_Surface	8270C	Terphenyl-d14	Y	87	NA		%	no
ST-072011-CR1		Field	Soil_Surface	8260B	Toluene-d8	Y	108	NA		%	no
ST-072011-CR1		Field	Soil_Surface	8015M-MDEQ-REM	Total Extractable Hydrocarbons	Y	87	200		mg/kg	no
ST-072011-CR1-D		Field	Soil_Surface	8260B	1,2-Dichloroethane-d4	Y	84	NA		%	no
ST-072011-CR1-D		Field	Soil_Surface	8270C	2,4,6-Tribromophenol	Y	97	NA		%	no
ST-072011-CR1-D		Field	Soil_Surface	8270C	2-Fluorobiphenyl	Y	90	NA		%	no
ST-072011-CR1-D		Field	Soil_Surface	8260B	Dibromofluoromethane	Y	96	NA		%	no
ST-072011-CR1-D		Field	Soil_Surface	8270C	Nitrobenzene-D5	Y	83	NA		%	no
ST-072011-CR1-D		Field	Soil_Surface	8270C	o-Fluorophenol	Y	80	NA		%	no
ST-072011-CR1-D		Field	Soil_Surface	8015M-MDEQ-REM	o-Terphenyl	Y	86	NA		%	no
ST-072011-CR1-D		Field	Soil_Surface	8260B	p-Bromofluorobenzene	Y	106	NA		%	no
ST-072011-CR1-D		Field	Soil_Surface	8270C	Phenol-d5	Y	87	NA		%	no
ST-072011-CR1-D		Field	Soil_Surface	8270C	Terphenyl-d14	Y	81	NA		%	no
ST-072011-CR1-D		Field	Soil_Surface	8260B	Toluene-d8	Y	100	NA		%	no
ST-072011-CR1-D		Field	Soil_Surface	8015M-MDEQ-REM	Total Extractable Hydrocarbons	Y	102	200		mg/kg	no
ST-072011-CR2		Field	Soil_Surface	8260B	1,2-Dichloroethane-d4	Y	71	NA		%	no
ST-072011-CR2		Field	Soil_Surface	8270C	2,4,6-Tribromophenol	Y	92	NA		%	no
ST-072011-CR2		Field	Soil_Surface	MA-EPH-MDEQ-REM	2-Bromonaphthalene	Y	71	NA		%	no
ST-072011-CR2		Field	Soil_Surface	MA-EPH-MDEQ-REM	2-Fluorobiphenyl	Y	73	NA		%	no



Detections in Samples Collected in SCAT Area B22

NA - Not Available

Detected Above Screening Level

Sample Num	Date	Sample Type	Matrix	Analytical Method	Analyte	Detected	Result	Screening Level	Result Qualifier	Units	Above?
ST-072011-CR2		Field	Soil_Surface	8270C	2-Fluorobiphenyl	Y	93	NA		%	no
ST-072011-CR2		Field	Soil_Surface	MA-EPH-MDEQ-REM	C11-C22 Aromatics	Y	44	400		mg/kg	no
ST-072011-CR2		Field	Soil_Surface	MA-EPH-MDEQ-REM	C19-C36 Aliphatics	Y	46	20000		mg/kg	no
ST-072011-CR2		Field	Soil_Surface	8260B	Dibromofluoromethane	Y	83	NA		%	no
ST-072011-CR2		Field	Soil_Surface	8270C	Nitrobenzene-D5	Y	80	NA		%	no
ST-072011-CR2		Field	Soil_Surface	MA-EPH-MDEQ-REM	Octadecane, 1-chloro-	Y	79	NA		%	no
ST-072011-CR2		Field	Soil_Surface	8270C	o-Fluorophenol	Y	76	NA		%	no
ST-072011-CR2		Field	Soil_Surface	MA-EPH-MDEQ-REM	o-Terphenyl	Y	73	NA		%	no
ST-072011-CR2		Field	Soil_Surface	8015M-MDEQ-REM	o-Terphenyl	Y	87	NA		%	no
ST-072011-CR2		Field	Soil_Surface	8260B	p-Bromofluorobenzene	Y	92	NA		%	no
ST-072011-CR2		Field	Soil_Surface	8270C	Phenol-d5	Y	82	NA		%	no
ST-072011-CR2		Field	Soil_Surface	8270C	Terphenyl-d14	Y	87	NA		%	no
ST-072011-CR2		Field	Soil_Surface	8260B	Toluene-d8	Y	86	NA		%	no
ST-072011-CR2		Field	Soil_Surface	MA-EPH-MDEQ-REM	Total Extractable Hydrocarbons	Y	138	200		mg/kg	no
ST-072011-CR2		Field	Soil_Surface	8015M-MDEQ-REM	Total Extractable Hydrocarbons	Y	211	200		mg/kg	YES
ST-072011-CR2		Field	Soil_Surface	MA-VPH-MDEQ-REM	Total Purgeable Hydrocarbons	Y	2.8	200	J	mg/kg	no
ST-072011-CR-BG		Field	Soil_Surface	8260B	1,2-Dichloroethane-d4	Y	87	NA		%	no
ST-072011-CR-BG		Field	Soil_Surface	8270C	2,4,6-Tribromophenol	Y	91	NA		%	no
ST-072011-CR-BG		Field	Soil_Surface	8270C	2-Fluorobiphenyl	Y	87	NA		%	no
ST-072011-CR-BG		Field	Soil_Surface	8260B	Dibromofluoromethane	Y	102	NA		%	no
ST-072011-CR-BG		Field	Soil_Surface	8270C	Nitrobenzene-D5	Y	85	NA		%	no
ST-072011-CR-BG		Field	Soil_Surface	8270C	o-Fluorophenol	Y	77	NA		%	no
ST-072011-CR-BG		Field	Soil_Surface	8015M-MDEQ-REM	o-Terphenyl	Y	90	NA		%	no
ST-072011-CR-BG		Field	Soil_Surface	8260B	p-Bromofluorobenzene	Y	109	NA		%	no
ST-072011-CR-BG		Field	Soil_Surface	8270C	Phenol-d5	Y	81	NA		%	no
ST-072011-CR-BG		Field	Soil_Surface	8270C	Terphenyl-d14	Y	81	NA		%	no
ST-072011-CR-BG		Field	Soil_Surface	8260B	Toluene-d8	Y	104	NA		%	no
ST-072011-CR-BG		Field	Soil_Surface	8015M-MDEQ-REM	Total Extractable Hydrocarbons	Y	119	200		mg/kg	no



Detections in Samples Collected in SCAT Area B22

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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Appendix B

Initial SCAT Survey Forms and
Sketches

DB 16

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 19-Jul-2011	Time (24h): std / daylight 1036 hrs to 1038 hrs	Water Level low - mean - <u>bankfull</u> - overbank falling - steady - rising
Segment/Reach ID: B22 <u>Left Bank</u> / Right Bank / Island		Operations Division: B		
Survey by: Foot / ATV / <u>Boat</u> / Helicopter / Overlook / _____		Sun / Clouds / Fog / Rain / Snow / <u>Windy</u> / Calm		Air Temp + / - <u>31</u> deg C

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

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 565 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) Riprap _____ 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

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

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

Substrate Type: mixed

Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10m 10-100m >100m 65m est. water depth: <1m 1-3m 3-10m >10m _____ m

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

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

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

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

Oiled trees/shrubs Y/N River Current strong Y/N Other Features: Trailer Park to north

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
459 460 461 462 463 A				X	225	1															X	Grass, trees, debris
B				X	37	1	100				X	X										Grass, trees, debris
C				X	107	1															X	Grass, trees, debris
D				X	53	1	100				X	X										Grass, trees, debris
E				X	143	1															X	Grass, trees, debris

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

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

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

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

Oil band heights: Zone B, D - 30cm

Treatment Recommendations:
 Zone A, C, E: No oil observed; no treatment required.
 Zone B, D: Cut & remove oil coated vegetation smaller than 1" 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 1206-1212 (Lee)

1 GENERAL INFORMATION		Date (dd/mm/yy) 19-Jul-2011	Time (24h): std / daylight 36 8 1030 hrs to 1036 hrs	Water Level low - mean - <u>bankfull</u> - overbank falling - steady - rising
Segment/Reach ID: <u>B23 2</u> Left Bank / Right Bank / Island		Operations Division: B		
Survey by: Foot / ATV / <u>Boat</u> / Helicopter / Overlook /		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>31</u> deg C

2 SURVEY TEAM # 1	name	organization	contact phone number
Pete Lee		Polaris	
Larry Alheim		MTDEQ	
Andy Johnson		USCG	
			565

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 362 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) Riprap _____ Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud _____ Sand _____ Mixed S Pebble/Cobble _____ Boulder _____ Peal/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 65 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 70 bags or _____ trucks access restrictions

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

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	82	1	100			X	(X)		X								Grass, trees, debris	
AB	225			X	200	1															X	Grass, trees, debris
BC	37			X	20	1	100			X	(X)		X									
CD	107			X	57	1																X
D					53																	
E					143																	

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 - 30cm

A, C, E

Treatment Recommendations:

Zone ~~B, D~~: No oil observed; no treatment required.

Zone A, C: Cut & remove oil coated vegetation smaller than 1" diameter. Wipe larger oil coated vegetation.

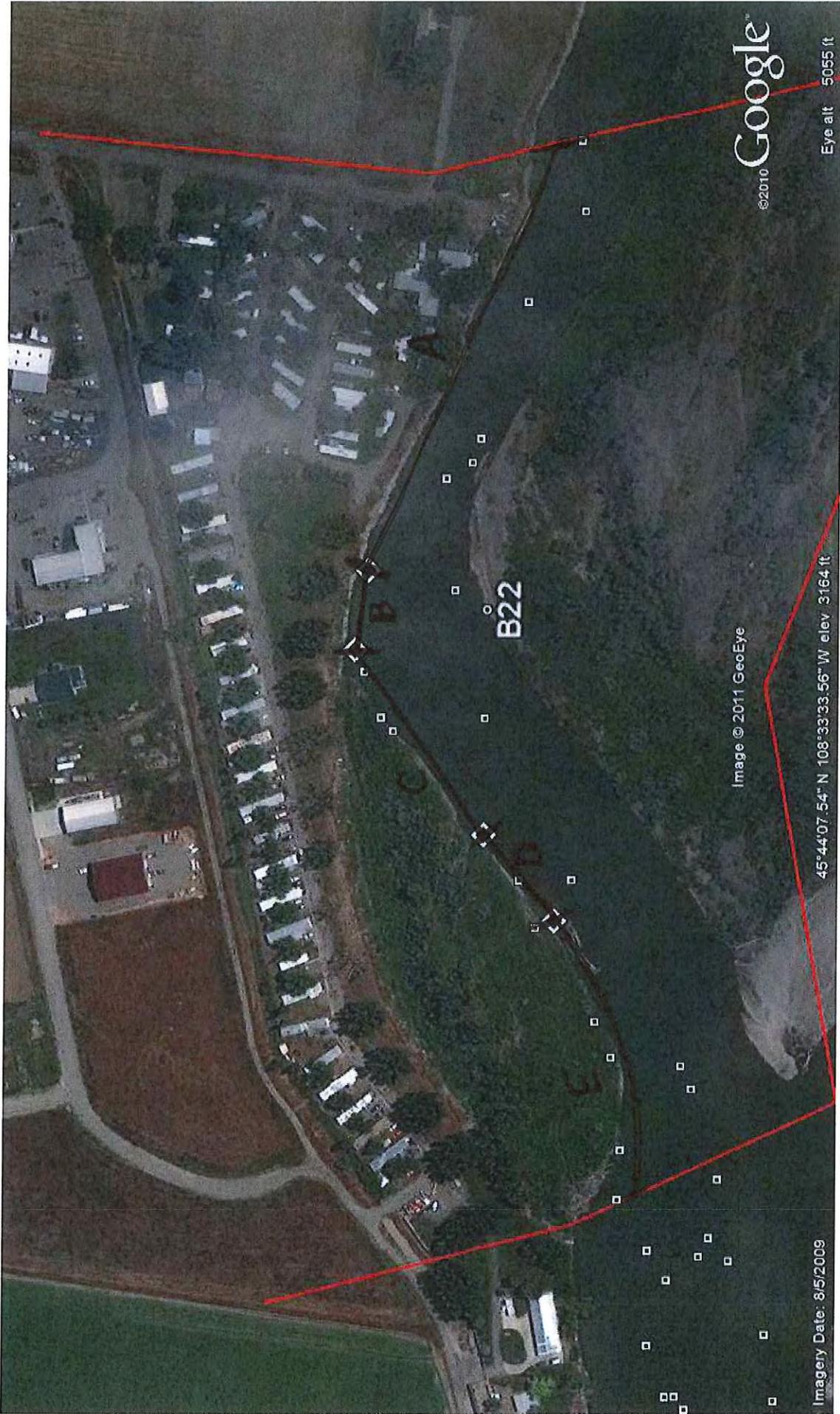
B, D

*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)

1206-1212

Sketch Yes / No Photos Yes / No Frames 1201-1205 (Lee)

E = 78 + 65



©2010 Google

Eye alt 5055 ft

Image © 2011 GeoEye

45°44'07.54" N 108°33'33.56" W elev. 3164 ft

Imagery Date: 8/5/2009

B22

DB/G

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page 1 of 1

1 GENERAL INFORMATION
 Segment/Reach ID: B22 Left Bank / Right Bank / Island
 Date (dd/mm/yy) 21/07/11
 Time (24h): std / daylight 14:00 hrs to 15:15 hrs
 Water Level low - mean bankfull - overbank
 Operations Division: B falling - steady - rising
 Survey by: (Foot) ATV / Boat / Helicopter / Overlook / Sun / Clouds / Fog / Rain / Snow / Windy / Calm
 Air Temp +/- 22 deg C

2 SURVEY TEAM # 4

name	organization	contact phone number
<u>John Williams</u>	<u>Cardno ENTRIX</u>	<u>361 6768132</u>
<u>John McFousek</u>	<u>Cardno ENTRIX</u>	
<u>Gary Riley</u>	<u>EPA</u>	<u>415-215-0690</u>
<u>Courtney Tyree</u>	<u>FWP</u>	<u>406-860-7814</u>

3 SEGMENT Total Segment/Reach Length 500 m Segment/Reach Length Surveyed 345 m
 Start GPS: LATITUDE 45 deg. 44.071 min. LONGITUDE 108 deg. 33.739 min. Datum: WGS 84
 End GPS: LATITUDE 45 deg. 44.167 min. LONGITUDE 108 deg. 33.369 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:
 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: P Est Height 8 m canyon manmade meander S confined or leveed Substrate Type: mud
 Sloped: (S) (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 (0-100m) >100m m est. water depth: <1m 1.3m 3-10m >10m m
 shoal(s) present Y (N) point bar present Y (N) bar-shoal substrate: Silt sand / gravel / cobble / boulder / bedrock / debris
 seasonal water level: low / mean / bank full / overbank flow est. change over next 7 days: falling - same - rising

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

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

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>520</u> A		<u>P</u>			<u>345</u>	<u>50</u>	<u>3</u>			<u>P</u>	<u>S</u>						<u>P</u>				<u>Veg</u>

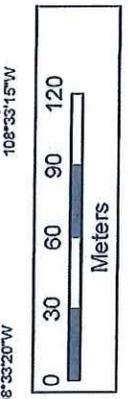
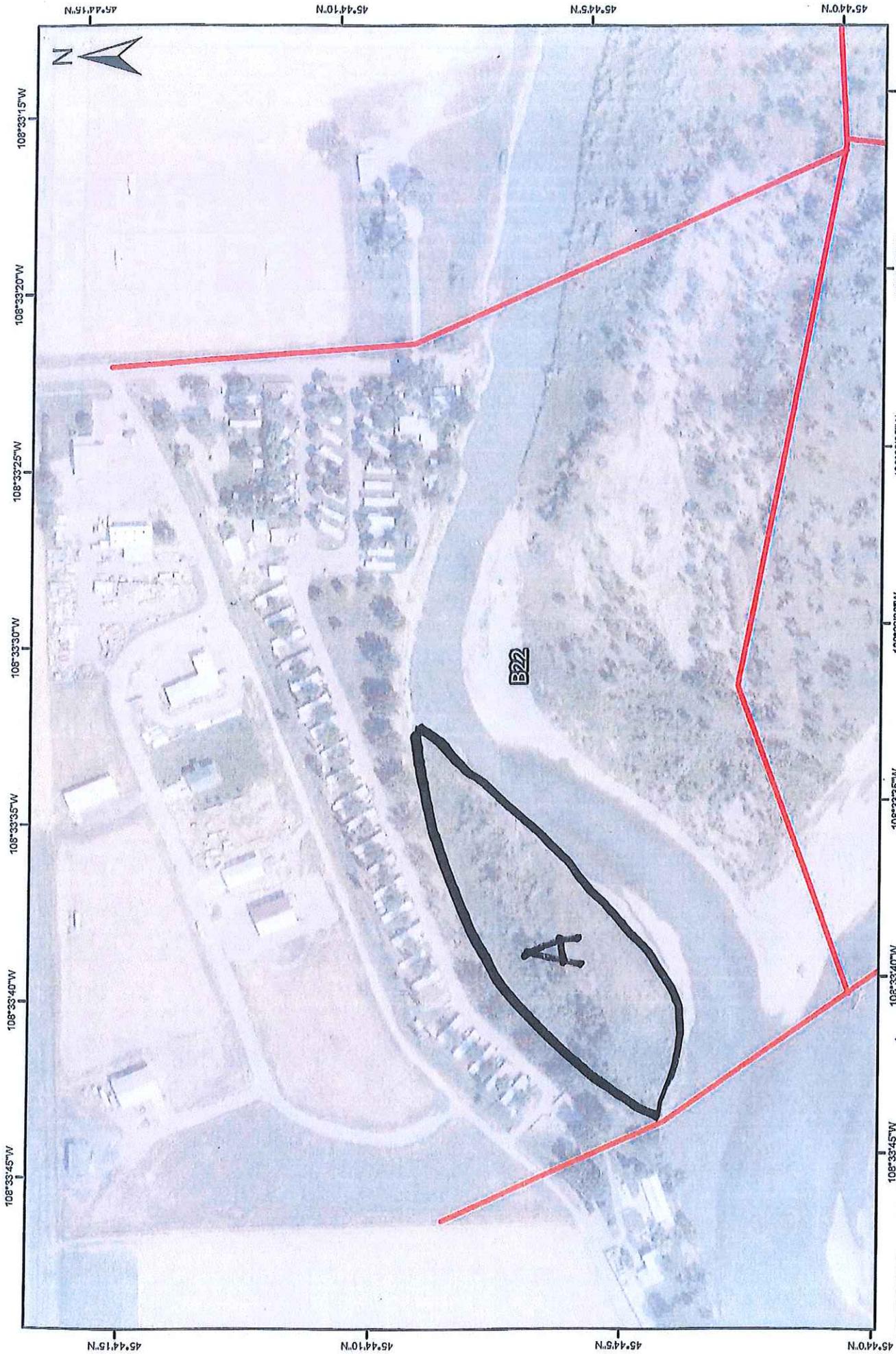
7 SUBSURFACE OILING CONDITIONS use letter for ZONE location plus Number of pit or trench - e.g., "A1"

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

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

Oil Zone A: Recommend low priority coated debris pile removal at N 45° 44.123' N 108° 33.624' W. Marked with pink tape.

(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: 7/21/2011
 TEAM: 4

B22 -
 (L/R/I)??

DB/6/5

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>B22</u>	Left Bank / <u>Right Bank</u> / Island	<u>19 / 07 / 11</u>	<u>1043</u> hrs to <u>1044</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 _____ m Segment/Reach Length Surveyed 500 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 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: mixed

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 _____ 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 river access likely

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>500</u>		<u>1</u>						<u>P</u>	<u>✓</u>								<u>veg bank</u>

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

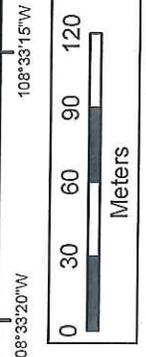
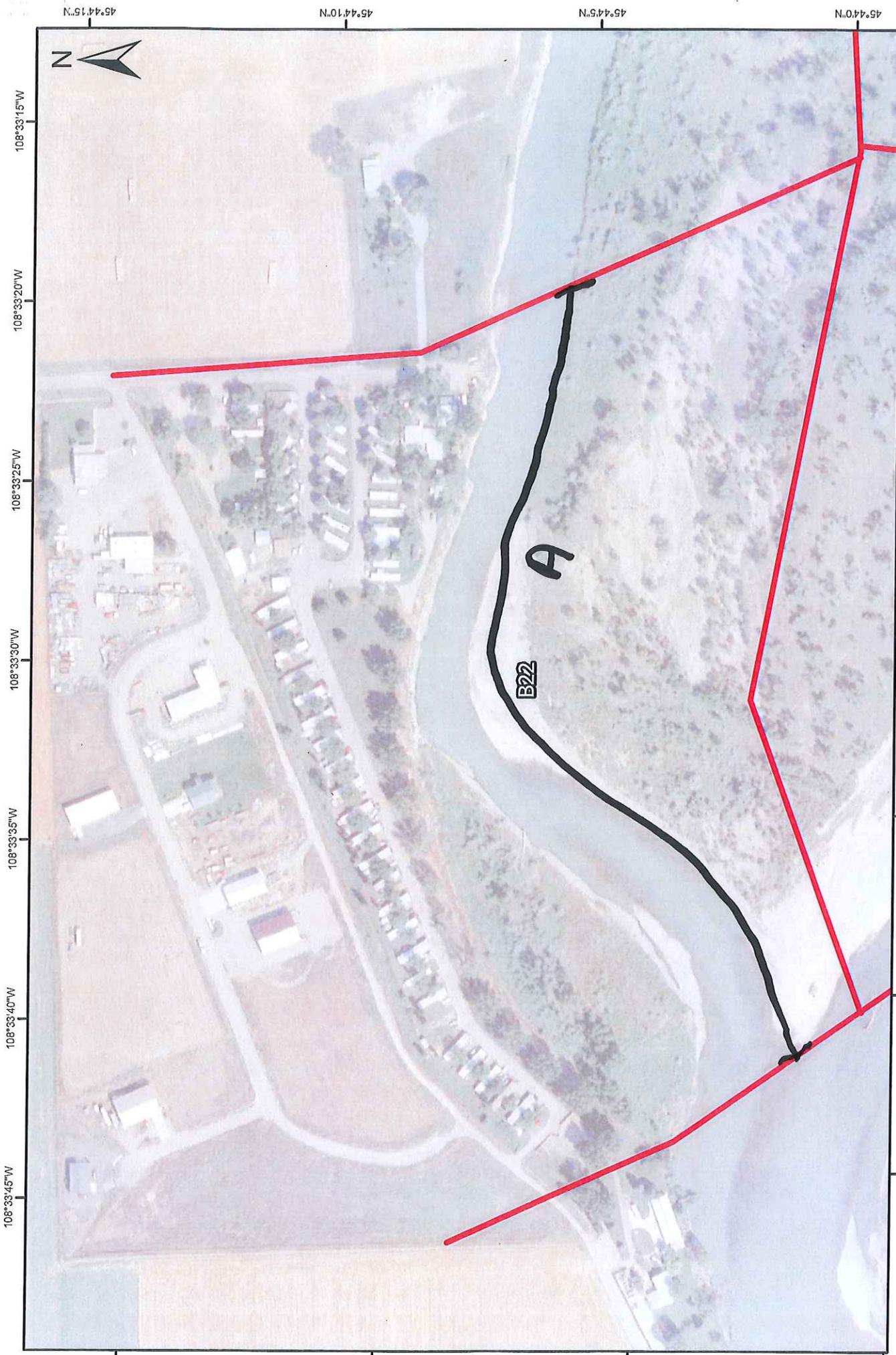
TRENCH or PIT NO.	RIVER BANK ZONE				MAX. PIT DEPTH cm	OILED ZONE cm-cm	SUBSURFACE OIL CHARACTER						WATER TABLE cm	SHEEN COLOUR B, R, S, N	CLEAN BELOW Yes / No	SUBST. TYPE(S)	
	MS	LB	UB	OB			SAP	OP	PP	OR	OF	TR					NO

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

OSR = Y OSC = unk BSC = unk

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

Sketch Yes/No Photos Yes/No (Roll # 5233 Frames 5234) Video Tape Yes/No (tape # _____)



COMMENTS:

DATE:
TEAM:

B22 -
(L/R/I)??

108°33'45"W 108°33'40"W 108°33'35"W 108°33'30"W 108°33'25"W 108°33'20"W 108°33'15"W

45°44'0"N 45°44'5"N 45°44'10"N 45°44'15"N

DB/G

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page _____ of _____

1 GENERAL INFORMATION		Date (dd/mm/yy) <u>24/07/11</u>	Time (24h): std / daylight <u>9:00</u> hrs to <u>944</u> hrs	Water Level low - mean - bankfull - overbank <u>falling</u> - steady - rising
Segment/Reach ID: <u>B22P</u> Left Bank / Right Bank / Island				
Operations Division: <u>B</u>		Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook / _____		
		<input checked="" type="checkbox"/> Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>30</u> deg C

2 SURVEY TEAM # <u>2</u>	Name	Organization	Signature
	<u>Chuck Pars</u>	<u>Coastal ENTRIX</u>	<u>Chuck Pars</u>
	<u>Donal Reed</u>	<u>M DEQ</u>	<u>Donal Reed</u>
	<u>Patrick Kroske</u>	<u>USCG</u>	<u>Patrick Kroske</u>

3 SEGMENT Total Segment/Reach Length 390 m Segment/Reach Length Surveyed 390 m

Start GPS: LATITUDE 45 deg. 44.032 min. LONGITUDE 108 deg. 33.615 min. Datum: WGS84

End GPS: LATITUDE 45 deg. 44.056 min. LONGITUDE 108 deg. 33.318 min.

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

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

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

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

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

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

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

4C RIVER CHANNEL CHARACTER circle or select as appropriate

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

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

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

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

Debris: (Y) / N oiled (Y) / N amount 50 bags or _____ trucks access restrictions ILH

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

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

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER					SUBST. TYPE(S)			
	MS	LB	UB	OB	Length	Width	Distrib.	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC		SR	AP	NO
	m	m	%																		
A			<u>(X)</u>	<u>(X)</u>	<u>390</u>	<u>120</u>	<u>5</u>			<u>(S)</u>	<u>(P)</u>		<u>(X)</u>								<u>S&S/L</u>

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

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

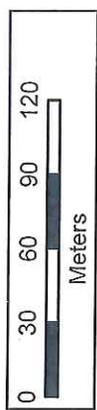
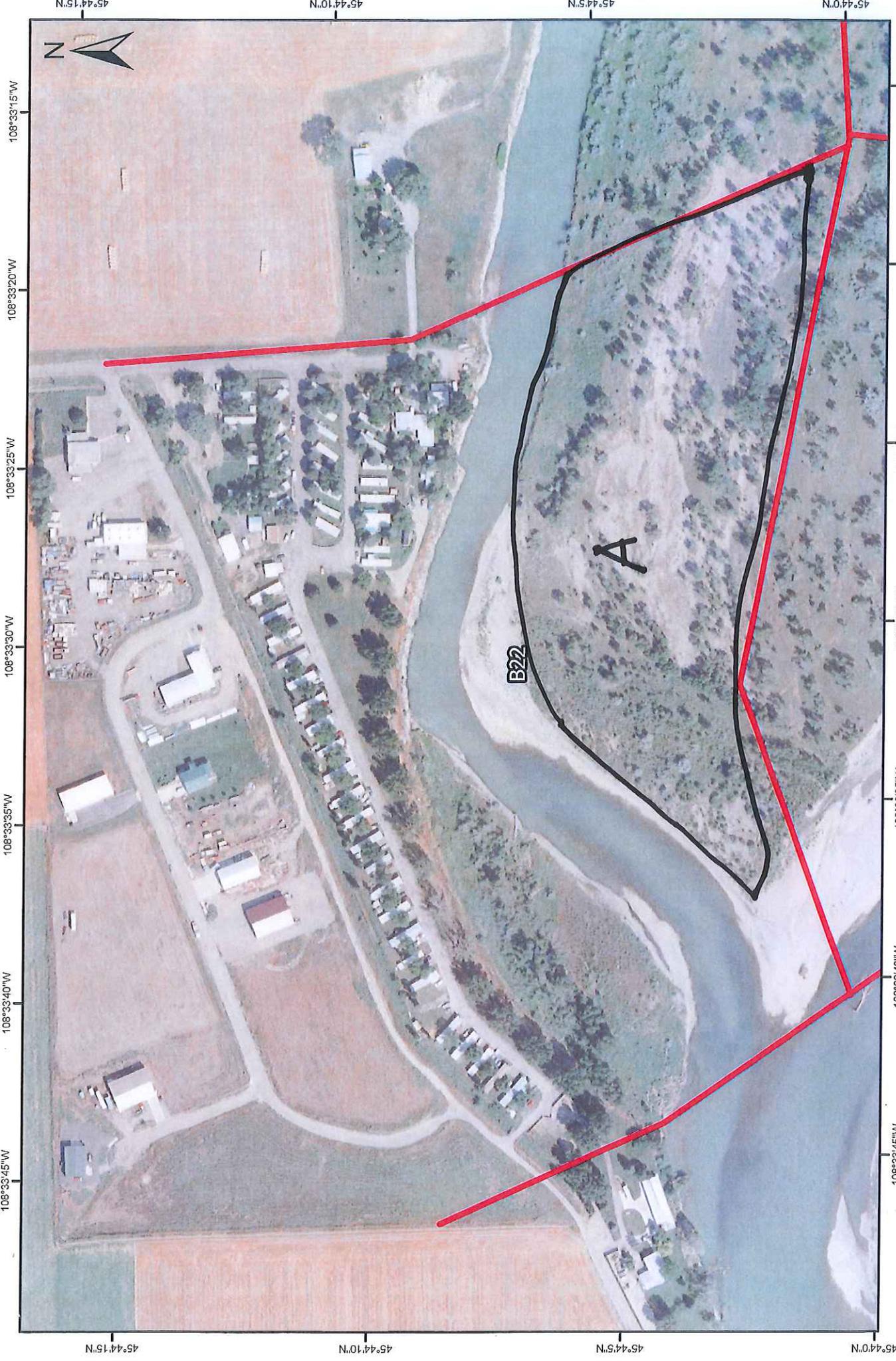
8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

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

Zone A had isolated area of stained and coated debris and veg including grass and shrubs

Debris needs to be manually bagged and removed.

Veg needs to be cut and/or trampled and removed where applicable



COMMENTS:

DATE:
TEAM:

B22 -
(L/R/I)??



Appendix C

Pre-Inspection Survey Transmittal

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



Appendix D

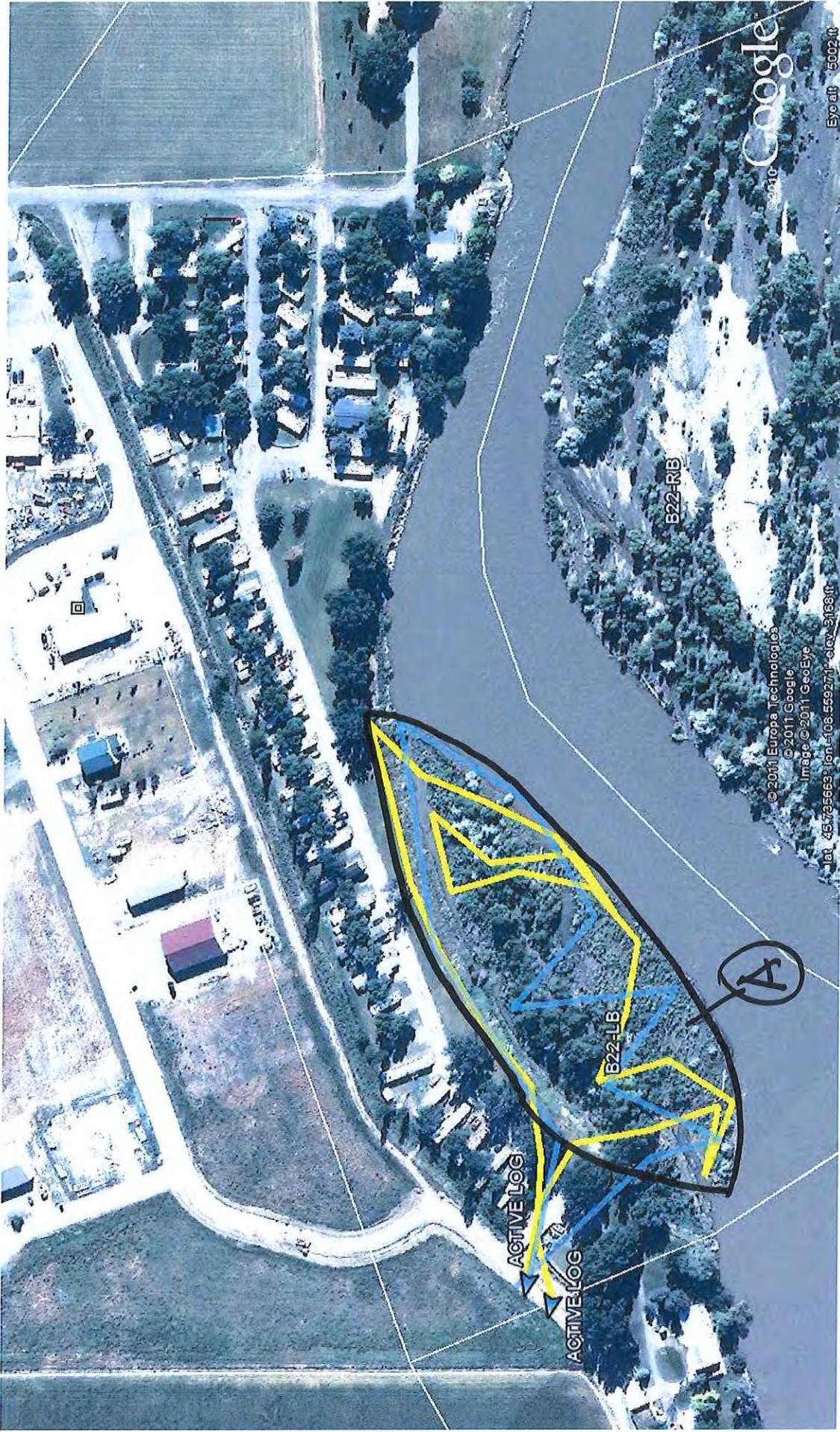
Post-Inspection Survey Transmittal

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



Appendix E

Final SCAT Survey Forms and
Sketches



09/07/11
SCAT 4

ZONE A: NFT

DB/G

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 05/09/11	Time (24h): std / daylight 10:50 hrs to 12:30 hrs	Water Level low - MEAN - bankfull - overbank falling - STEADY - rising
Segment/Reach ID: <u>B 22</u> Left Bank/ <u>Right Bank</u> Island		Operations Division:		
Survey by: <u>Foot</u> ATV / Boat / Helicopter / Overlook / <u> </u>		(Sun) Clouds / Fog / Rain / Snow / Windy / Calm		
Air Temp +/- <u>26</u> deg C				

2 SURVEY TEAM # <u>1</u>	name	organization	contact phone number
	Tom Freeman	Polaris	<i>Tom Freeman</i>
	Jeffrey Herrick	MT DEQ	<i>Jeffrey Herrick</i>
	Griff Miller	US EPA	<i>Griff Miller</i>

3 SEGMENT Total Segment/Reach Length 390 m Segment/Reach Length Surveyed 390 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 X _____ Mixed (X) Pebble/Cobble (X) Boulder _____ Peat/Organic _____ Vegetated Bank: Yes _____ Wooded Upland: _____

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

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

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

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 (X) point bar present Y (X) 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 (X) River Current strong (X) / 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	390	150	<1			S	P							X				Veg/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									

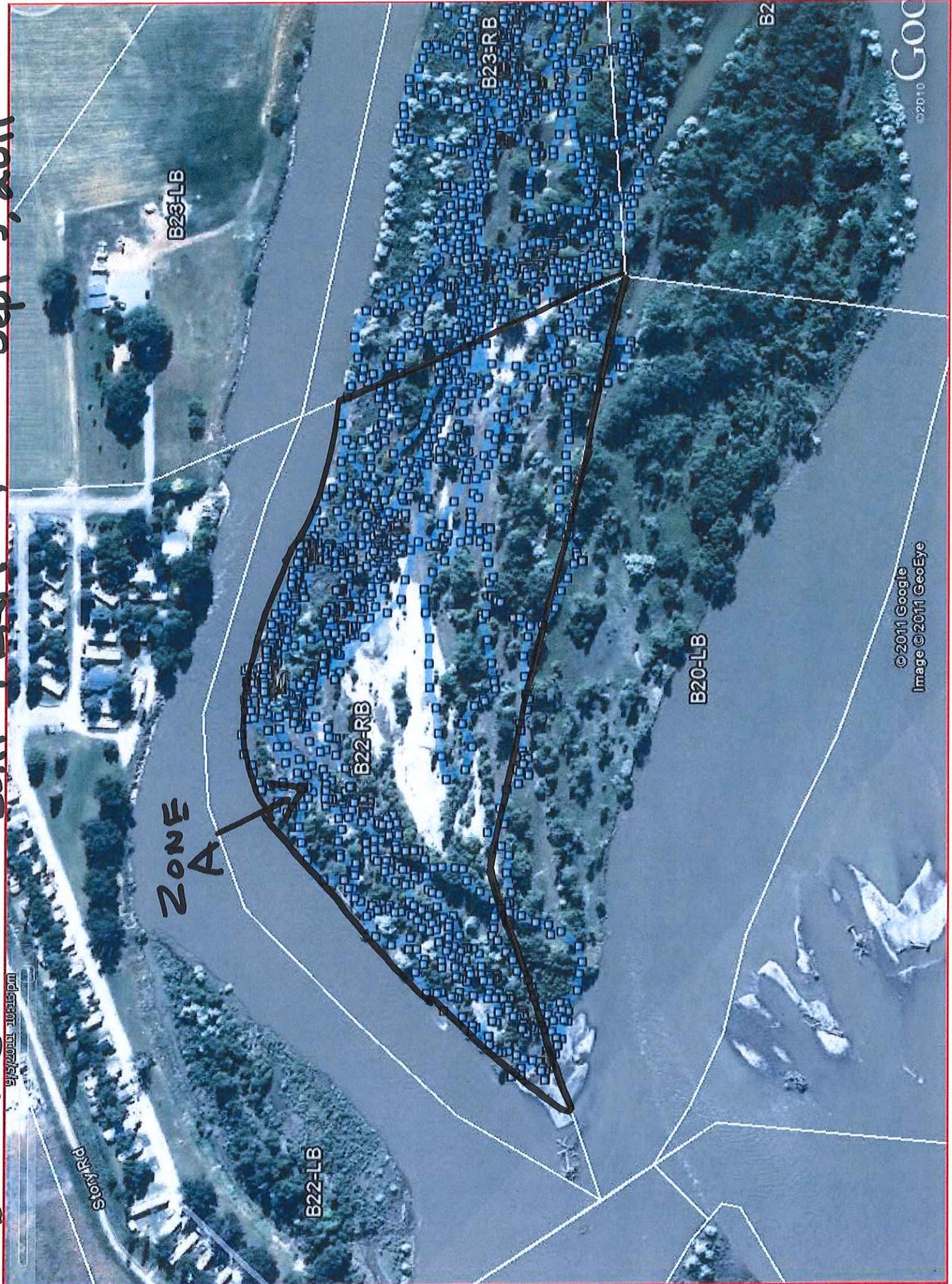
8 COMMENTS ecological/recreational/cultural/economic constraints - shorezone biota and wildlife observations - cleanup recommendations

Zone A: NFT → Cleared by Hot Shots.
2 bags.

(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-22 RB SCAT TEAM #1 Sept 5, 2011





Appendix F

Completed SCAT Segment Sign-Off
Forms

SCAT SEGMENT OPERATIONS COMPLETION SIGN-OFF SHEET

SILVERTIP PIPELINE RELEASE

Segment B22 LB Date of Survey 09 / 07 / 11

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

CTR(s) Associated with SCAT Segment 43

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

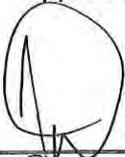
Segment Assessment Complete¹

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 JAMGL H. DALLAS Date 9/7/11
Federal Representative (EPA/USCG)


Sign Name _____ Print Name/ Affiliation BRAD OLSZEWSKI / FWP Date 9/7/11
State Representative (DEQ/FWP)


Sign Name _____ Print Name/ Affiliation MIKE DIRKS / Cordus ENTRIX Date 09/07/11
RP Representative (SCAT RP Representative)

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

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

SCAT SEGMENT OPERATIONS COMPLETION SIGN-OFF SHEET

SILVERTIP PIPELINE RELEASE

Segment B-22 RB

Date of Survey 9-5-11

Dates of Initial SCAT Assessments

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

CTR(s) Associated with SCAT Segment

CTR # 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).

[Signature] Giff Miller / EPA 9-5-11
Sign Name Print Name/ Affiliation Date
Federal Representative (EPA/USCG)

[Signature] Greg Frank / DEQ 05 Sep. 2011
Sign Name Print Name/ Affiliation Date
State Representative (DEQ/FWP)

[Signature] Tom Freeman / Polaris Sept 5, 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.