

ExxonMobil Pipeline Company

**SCAT Area Transition Report
for B27**

Silvertip Pipeline Incident
Laurel, Montana

October 21, 2011



SCAT Area Transition Report for B27

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Laurel, Montana

Prepared for:
ExxonMobil Pipeline Company

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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 B27, 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 B27. 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 B27, 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 B27 is 97.7. There were no access issues for this area.

1.2 Cultural, Historic, and Natural Resource Constraints

A single historic property (24YL1601 Gray Eagle Ditch) was identified on the left bank. The property was not impacted by the incident or response.

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 B27. One oiled Woodhouse's toad (*Bufo woodhousii*) was identified and photographed by a SCAT team but not captured or reported to the Wildlife Hotline. No Wildlife Priority Cleanup Areas were identified. No active migratory bird nests were identified in Area B27.

1.3 Summary of Environmental Sampling

Table 1 (below) summarizes samples collected within Area B27. 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 B27 are provided on Figure 3.

Table 1 Environmental Sampling Summary

Agency	Sample Num	Date	Matrix	Location	Latitude	Longitude
CTEH	BIMT0816SO517	8/16/11	Soil_River	SO-B27	45.738378	-108.54595
EPA	SPSE112_071311	7/13/11	Sediment	SPSE112	45.7402298	-108.5391543

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 vanadium.

1.4 Summary of Initial SCAT Surveys

The SCAT teams used systematic evaluation criteria and treatment method tables approved by the National Oceanic and Atmospheric Administration to provide a standard approach for data collection and conducting field surveys. The forms and sketches from the initial SCAT surveys performed along the river bank (water edge) and floodplain within Area B27 are included in Appendix B. Figure 4 provides the maximum oiling zones observed by the SCAT team during the initial surveys of Area B27.

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](#)).

1.6 Oil Removal Activities

Oil removal activities were conducted within Area B27 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 B27 and developed a Pre-Inspection Survey Transmittal (PIST) associated with the left and right banks within Area B27, which is presented in Appendix C.

1.8 Post-Inspection Survey Transmittal

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

1.9 Summary of Final SCAT Surveys

Figure 5 shows the oiling conditions within Area B27 following completion of oil removal activities. The SCAT team performed final surveys of the left and right banks within SCAT Area B27 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 B27, no further treatment is recommended for these segments. SCAT Segment Sign-Off Forms are included as Appendix F.



**SCAT Area Transition
Report for B27**

Silvertip Pipeline Incident
Laurel, Montana

2. Transition Sign-Off Form

SCAT Area Transition Report for B27

Prepared for:

Unified Command

Date

Unified Command – RP



**SCAT Area Transition
Report for B27**

Silvertip Pipeline Incident
Laurel, Montana

SCAT Area Transition Report for B27

Prepared for:

Unified Command

10/11/2011

Date

[Handwritten Signature] *S. ASKEW*

Unified Command – FOSC



**SCAT Area Transition
Report for B27**

Silvertip Pipeline Incident
Laurel, Montana

SCAT Area Transition Report for B27

Prepared for:

Unified Command

Date

Unified Command – MDEQ



Legend

Parcel Access

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

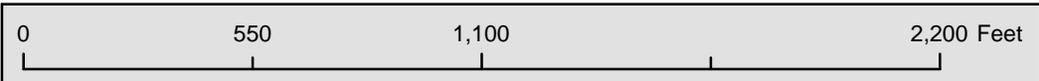


Figure 1

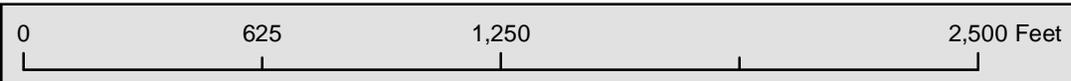


Figure 2
Wildlife Resources

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





Figure 4 - Maximum SCAT Observations For SCAT Area: B27





**Figure 5 - Final SCAT Observations
For SCAT Area: B27**



- 9999 Oiling Zone ID
- Heavy Oiling
- Moderate Oiling

- Light Oiling
- Very Light Oiling
- No Oil Observed





Appendix A

Sample Detection Summary



Detections in Samples Collected in SCAT Area B27

NA - Not Available

Detected Above Screening Level

Sample Num	Date	Sample Type	Matrix	Analytical Method	Analyte	Detected	Result	Screening Level	Result Qualifier	Units	Above?
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 6010	Arsenic	Y	9.7	40		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 6010	Barium	Y	148	820		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 6010	Cadmium	Y	0.2	3.8		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 6010	Chromium	Y	23.2	280		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 6010	Lead	Y	18.4	400		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 9060	Mean Total Organic Carbon	Y	6020	NA		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 6010	Nickel	Y	17.1	150		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 9060	RSD%	Y	15.5	NA		%	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 6010	Selenium	Y	0.82	2.6		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	MADEP EPH	Total Extractable Hydrocarbons	Y	23.8	200		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 9060	Total Organic Carbon	Y	7250	NA		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 6010	Vanadium	Y	42.8	39		mg/kg	YES



Detections in Samples Collected in SCAT Area B27

NA - Not Available

Detected Above Screening Level

Sample Num	Date	Sample Type	Matrix	Analytical Method	Analyte	Detected	Result	Screening Level	Result Qualifier	Units	Above?
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 6010	Arsenic	Y	9.7	40		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 6010	Barium	Y	148	820		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 6010	Cadmium	Y	0.2	3.8		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 6010	Chromium	Y	23.2	280		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 6010	Lead	Y	18.4	400		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 9060	Mean Total Organic Carbon	Y	6020	NA		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 6010	Nickel	Y	17.1	150		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 9060	RSD%	Y	15.5	NA		%	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 6010	Selenium	Y	0.82	2.6		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	MADEP EPH	Total Extractable Hydrocarbons	Y	23.8	200		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 9060	Total Organic Carbon	Y	7250	NA		mg/kg	no
BIMT0816SO517	08/16/2011	Field	Soil_River	EPA 6010	Vanadium	Y	42.8	39		mg/kg	YES



Appendix B

Initial SCAT Survey Forms and
Sketches

DB/9/5c

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 Left Bank
 Operations Division: B OK a/p/h

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 45 deg. 44.1080 min. LONGITUDE -108 deg. 33.051 min. Datum: WGS84
 End GPS: LATITUDE 45 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: (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
 Sloped: >5°(15°)(30°) straight braided oxbow flood plain valley X Substrate Type: Mixed
 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	
<u>17</u> <u>18</u> A			X	(X)	1305	1	60			X	(X)		X									<u>grass</u> <u>Veg/shrubs</u>
B				(X)	400	1	10			X	(X)		X									<u>Veg/shrubs</u>
<u>19</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: ~ 60% of the grasses along the upper bank are stained or coated w/ oil, ~ 2/3 of grasses show stain, ~ 1/3 grasses show coat (CT), recommend only grasses w/ coat be cut and removed along oxbow!

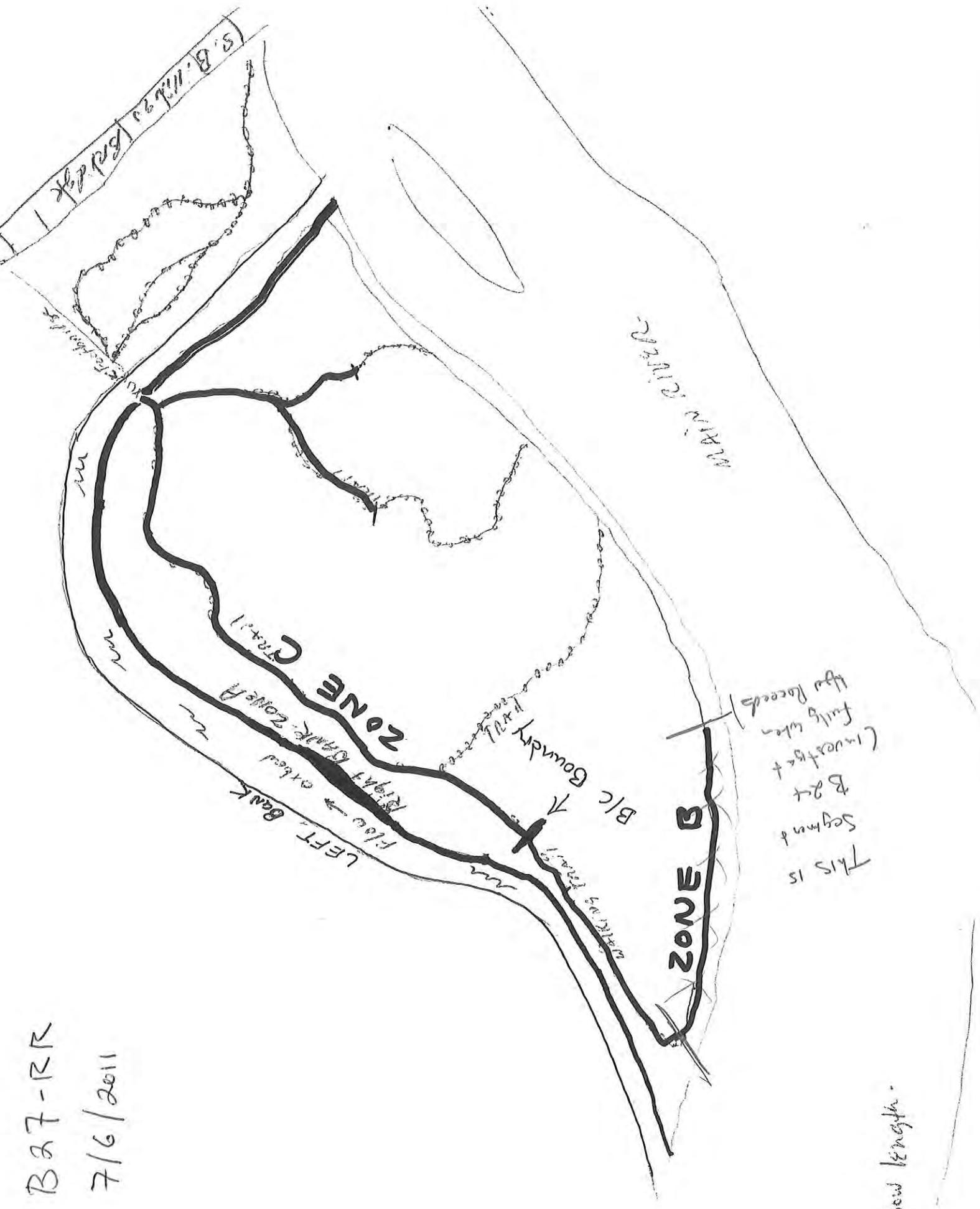
2) debris and oiled vegetation along walking + trails to be removed.
 "Only included Section of B in Segment B37-RB" OR

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 # _____)

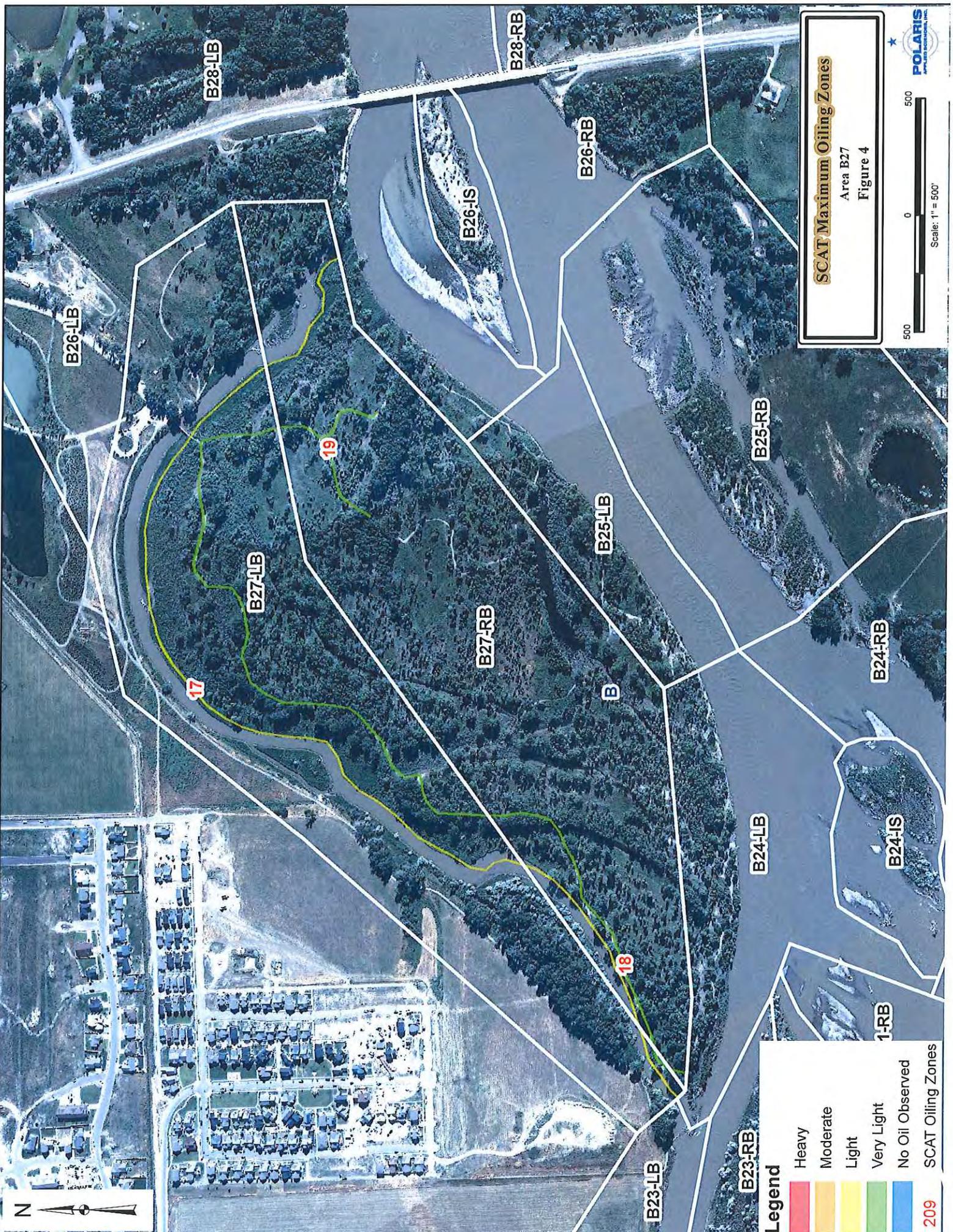
B27-RR

7/6/2011



This is Segment B of the full when the floods occur

exbow length



SCAT Maximum Oiling Zones
 Area B27
 Figure 4

500 0 500
 Scale: 1" = 500'

POLARIS
 Environmental Services, Inc.

Legend

- Heavy
- Moderate
- Light
- Very Light
- No Oil Observed
- SCAT Oiling Zones

209

DB

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>B-27</u> Left Bank / Right Bank / Island		<u>2/26/11</u>	<u>1430</u> hrs to <u>1500</u> hrs	low - mean - <u>bankfull</u> - overbank
Operations Division:				falling - steady - rising
Survey by: Foot / ATV / Boat / Helicopter / Overlook /		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>90</u> deg C

2 SURVEY TEAM #	Name	Organization	Signature
	<u>GARY REITER</u>	<u>POLARIS</u>	
	<u>JUAN PATINO</u>	<u>USCG</u>	

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

Start GPS: LATITUDE 46° 18' 39.2" deg. LONGITUDE 107° 14' 14.7" min. Datum: _____

End GPS: LATITUDE 46° 18' 43.5" deg. LONGITUDE 107° 14' 23.7" 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: _____ 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: _____

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

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

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

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

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

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

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

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER							SUBST. TYPE(S)	
	MS	LB	UB	OB	Length m	Width m	Distrib. %	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR	AP		NO
A																					<input checked="" type="checkbox"/>

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

way points 46° 18' 39.2" N 107° 14' 43.2" W
46° 18' 42.1" N 107° 14' 32.1" W

NOO

ALSO LOOKED AT FIELD LOCATED AT 46° 17' 36.3" N 107° 15' 22.9" W 406 652 1246

LOOKED AT PROPERTY OWNED BY MS. SALLY HUFFARD

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

SHOWN PROPERTY BY SCOTT LACKLAND 406 855 3193



B27 L Example of areas flagged for collection

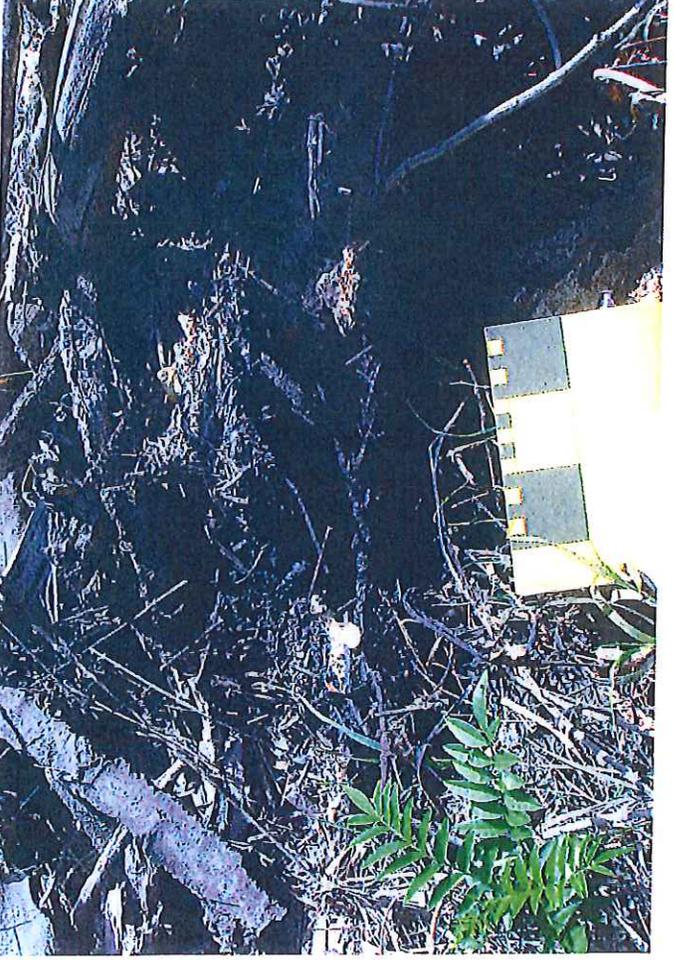


B-27 NORMS ISLAND

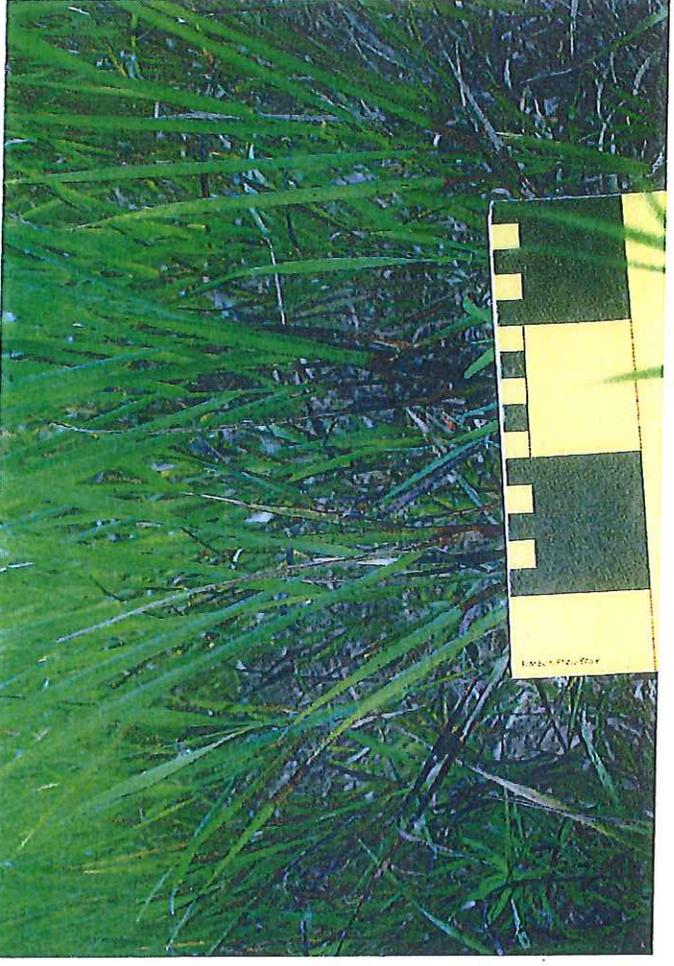


oiled wood debris ↓

B-27L



oiled grass →



DB/6

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 22/07/2011	Time (24h): std / daylight 18:55 hrs to 15:20 hrs	Water Level low - mean - bankfull - <u>overbank</u> falling - steady - rising
Segment/Reach ID: B27	Left Bank / Right Bank / Island <u>CK 9/28/11</u>			
Operations Division: B				
Survey by: Foot / ATV / Boat / Helicopter / Overlook /		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		EPA	<i>Janice Witul</i>
Earl Radonski		MFWP	<i>Earl Radonski</i>

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 1050 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) (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 300 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	165	5	<1		X	(X)								X				veg
B				X	230	5-10	<1		X	(X)								X				veg
C				X	85	6	<1		(X)	X								X				veg
D				X	60	15	1		(X)	X								X				veg
E				X	145	5-20	<1		X	(X)								X				veg
F				X	30	10	1		(X)	X								X				veg
G				X	140	15-30	<1		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
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

Zones A to K have areas *flagged for collection using vegetation cuttings and oiled vegetation & small debris removal. Operations are already proceeding in this area. (* = flagged zone) and should continue to work through these areas (see attached maps). Oiling is found primarily in grass (scattered and as a "bathtub ring", in wood debris piles, and on overhanging branches at the high water mark along low lying drainage channels and above ponds of standing water.

Zones M, N, & O are NOD - higher elevation above high water mark.

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

DB/E

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 22/07/2011	Time (24h): std / daylight hrs to _____ hrs	Water Level low - mean - bankfull - <u>overbank</u> falling - steady - rising
Segment/Reach ID: B27 Left Bank / Right Bank / Island				
Operations Division: B				
Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____		Sun / Clouds / Fog / Rain / Snow / Windy / Calm	Air Temp + / - _____ deg C	

2 SURVEY TEAM # 3	Name	Organization	Signature
Jenni Nelson		Polaris	
John Bauer		Polaris	
Janice Witul		EPA	
Earl Radonski		MFWP	

see page 1

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 _____ 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 125m 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: 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
616 * H				X	85	20	<1		X	(X)							X				veg
617 * I				X	10	5	<1		X	(X)							X				veg
618 * J				X	10	3	3		X	(X)							X				veg
619 * K				X	5	5	2		X	(X)							X				veg
620 L				X	3	3	2		(X)	X							X				veg
621 M				X	250	50	0													X	veg
622 N				X	125	40	0													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
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

zone P - scattered trace oiling on vegetation, wood debris.

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

DB/G

1 GENERAL INFORMATION		Date (dd/mm/yy) 22/07/2011	Time (24h): std / daylight hrs to _____ hrs	Water Level low - mean - bankfull - <u>overbank</u> falling - steady - rising
Segment/Reach ID: B27 Left Bank / Right Bank / Island				
Operations Division: B				
Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____		Sun / Clouds / Fog / Rain / Snow / Windy / Calm	Air Temp + / - _____ deg C	

2 SURVEY TEAM # 3	Name	Organization	Signature
Jenni Nelson		Polaris	
John Bauer		Polaris	
Janice Witul		EPA	
Earl Radonski		MFWP	

See page 1

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 _____ 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

623
624
625

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	
O				X	145	80	0														X	veg
P				X	1050	425	<1		X	X	Y						X	X				veg
Q				X	5	5			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

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



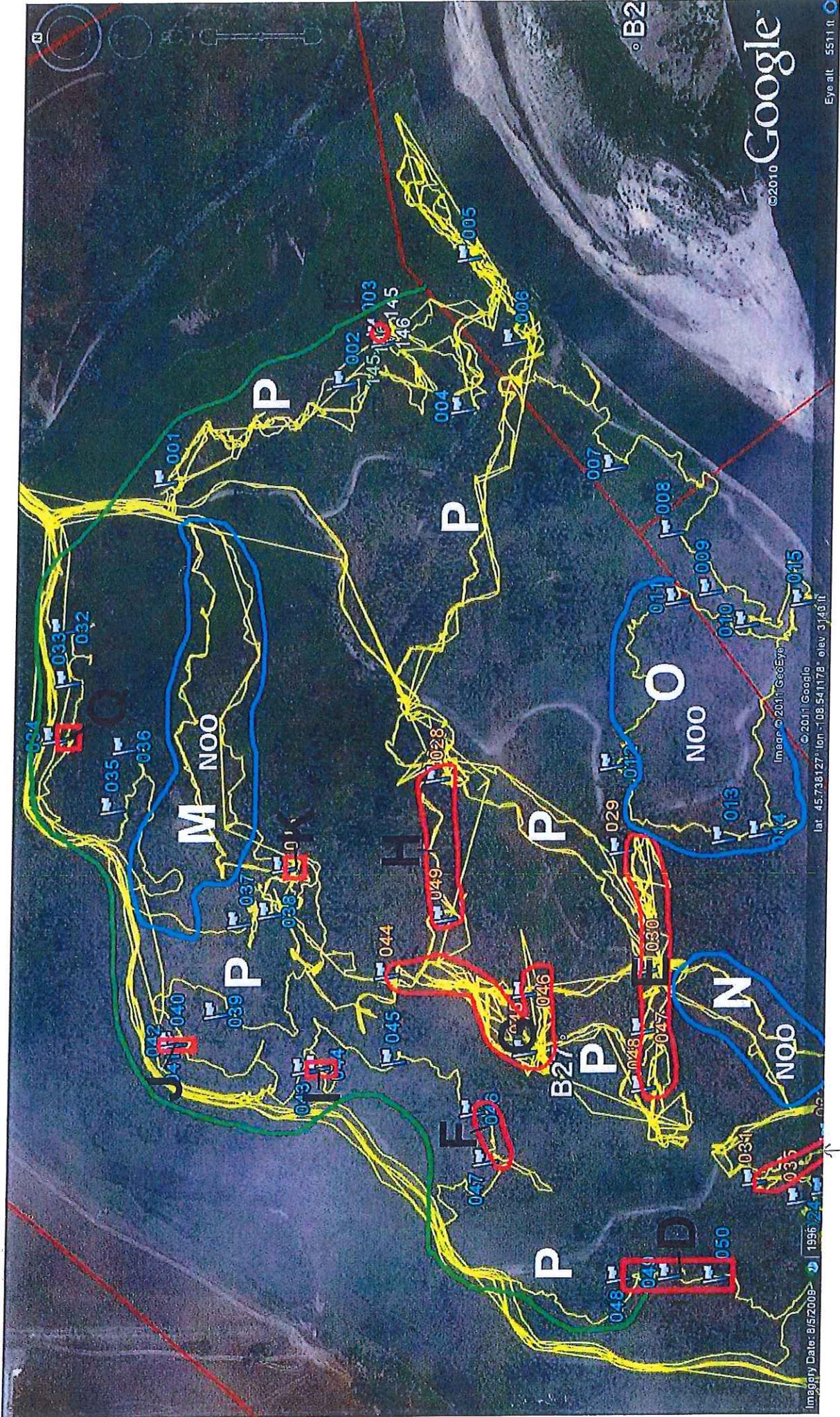
See enlarged
over maps (2)
for zones
page 4

22 July 2011

B27 SCAT #3
Norm's Island



B-27 SCAT#3 22 July 2011
 Normis Island (west end of survey)



B-27 SCAT #3 22 July 2011
 (east end of survey)

046

(light blue flags
on map)

Jenni Nelson (SCAT #3) waypoints – Norm's Island 22 July
(Bold = flagged for cleanup)

001	22-JUL-11 8:59:15	N45 44.367 W108 32.366	3204 ft	Symbol & Name
002	22-JUL-11 9:10:02	N45 44.310 W108 32.322	3201 ft	Symbol & Name
003	22-JUL-11 9:14:55	N45 44.299 W108 32.298	3201 ft	Symbol & Name
004	22-JUL-11 9:23:43	N45 44.272 W108 32.334	3201 ft	Symbol & Name
005	22-JUL-11 9:37:22	N45 44.270 W108 32.265	3180 ft	Symbol & Name
006	22-JUL-11 9:42:37	N45 44.256 W108 32.303	3182 ft	Symbol & Name
007	22-JUL-11 9:54:11	N45 44.223 W108 32.361	3180 ft	Symbol & Name
008	22-JUL-11 10:01:21	N45 44.204 W108 32.391	3184 ft	Symbol & Name
009	22-JUL-11 10:03:50	N45 44.191 W108 32.417	3178 ft	Symbol & Name
010	22-JUL-11 10:05:56	N45 44.179 W108 32.432	3174 ft	Symbol & Name
011	22-JUL-11 10:13:50	N45 44.202 W108 32.421	3179 ft	Symbol & Name
012	22-JUL-11 10:21:27	N45 44.222 W108 32.496	3176 ft	Symbol & Name
013	22-JUL-11 10:27:45	N45 44.186 W108 32.530	3180 ft	Symbol & Name
014	22-JUL-11 10:29:27	N45 44.174 W108 32.527	3174 ft	Symbol & Name
015	22-JUL-11 10:35:55	N45 44.162 W108 32.422	3172 ft	Symbol & Name
016	22-JUL-11 10:38:59	N45 44.148 W108 32.453	3176 ft	Symbol & Name
017	22-JUL-11 10:47:06	N45 44.143 W108 32.509	3176 ft	Symbol & Name
018	22-JUL-11 10:49:50	N45 44.144 W108 32.543	3174 ft	Symbol & Name
019	22-JUL-11 10:53:52	N45 44.145 W108 32.575	3171 ft	Symbol & Name
020	22-JUL-11 11:02:56	N45 44.093 W108 32.582	3177 ft	Symbol & Name
021	22-JUL-11 11:10:52	N45 44.126 W108 32.647	3176 ft	Symbol & Name
022	22-JUL-11 11:12:07	N45 44.135 W108 32.668	3172 ft	Symbol & Name
023	22-JUL-11 11:15:30	N45 44.153 W108 32.689	3179 ft	Symbol & Name
024	22-JUL-11 11:16:04	N45 44.153 W108 32.689	3176 ft	Symbol & Name

025	22-JUL-11 11:29:26	N45 44.115 W108 32.724	3179 ft	Symbol & Name
026	22-JUL-11 11:34:55	N45 44.145 W108 32.717	3175 ft	Symbol & Name
027	22-JUL-11 11:38:08	N45 44.121 W108 32.783	3179 ft	Symbol & Name
028	22-JUL-11 10:03:09AM	N45 44.278 W108 32.501	3187 ft	Symbol & Name
029	22-JUL-11 10:15:42AM	N45 44.219 W108 32.534	3182 ft	Symbol & Name
030	22-JUL-11 10:20:42AM	N45 44.210 W108 32.589	3186 ft	Symbol & Name
031	22-JUL-11 10:41:04AM	N45 44.175 W108 32.685	3201 ft	Symbol & Name
032	22-JUL-11 10:48:41AM	N45 44.150 W108 32.664	3184 ft	Symbol & Name
033	22-JUL-11 10:51:49AM	N45 44.144 W108 32.645	3192 ft	Symbol & Name
034	22-JUL-11 10:57:32AM	N45 44.128 W108 32.686	3199 ft	Symbol & Name
035	22-JUL-11 10:59:55AM	N45 44.160 W108 32.694	3192 ft	Symbol & Name
036	22-JUL-11 11:13:12AM	N45 44.109 W108 32.705	3194 ft	Symbol & Name
037	22-JUL-11 11:18:05AM	N45 44.124 W108 32.725	3193 ft	Symbol & Name
038	22-JUL-11 11:22:26AM	N45 44.092 W108 32.745	3189 ft	Symbol & Name
039	22-JUL-11 11:25:26AM	N45 44.097 W108 32.758	3187 ft	Symbol & Name
040	22-JUL-11 11:31:09AM	N45 44.148 W108 32.739	3195 ft	Symbol & Name
041	22-JUL-11 11:45:24AM	N45 44.084 W108 32.810	3193 ft	Symbol & Name
042	22-JUL-11 11:57:05AM	N45 44.078 W108 32.962	3177 ft	Symbol & Name
043	22-JUL-11 2:01:14PM	N45 44.327 W108 32.542	3151 ft	Symbol & Name
044	22-JUL-11 2:14:04PM	N45 44.293 W108 32.590	3174 ft	Symbol & Name
045	22-JUL-11 2:22:34PM	N45 44.249 W108 32.626	3172 ft	Symbol & Name
046	22-JUL-11 2:26:14PM	N45 44.249 W108 32.599	3172 ft	Symbol & Name
047	22-JUL-11 2:37:58PM	N45 44.211 W108 32.616	3160 ft	Symbol & Name
048	22-JUL-11 2:46:50PM	N45 44.211 W108 32.642	3168 ft	Symbol & Name
049	22-JUL-11 3:02:18PM	N45 44.275 W108 32.565	3168 ft	Symbol & Name



Appendix C

Pre-Inspection Survey Transmittal

SCAT – Pre Inspection Survey Transmittal (PIST) Memo

Survey Date: 10-12 August 2011

Segment: B27LB, B27RB

Team: SCAT Liaison John Spenik

Signed: 

Observer Fred Strowd

Signed: 

USCG Observer TRUMAN SKANG

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.

SCAT – Pre Inspection Survey Transmittal (PIST) Memo

Survey Date: 10-12 August 2011

Segment: B27LB, B27RB

Team: SCAT Liaison John Spenik

Signed: 

Observer Fred Stroud

Signed: 

USCG Observer TRUMAN SKANG

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

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



Appendix E

Final SCAT Survey Forms and
Sketches

AB/G

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 28/09/11	Time (24h): std / daylight 1530 hrs to 1500 hrs	Water Level low - <u>mean</u> - bankfull - overbank falling - steady - rising
Segment/Reach ID: <u>B27</u> <u>Left Bank</u> / Right Bank/ Island				
Operations Division: <u>B</u>				
Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook / _____		<u>Sun</u> / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - <u>25</u> deg C
2 SURVEY TEAM # 3	Name	Organization	Signature	
	Pete Lee	Polaris		
	Tom Bovington	MTDEQ		

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 1000 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 P oxbow _____ flood plain valley X Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

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

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

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

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

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

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

2408

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	600	270	<1			S	P						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: 30-60 cm

Treatment recommendations:
 Zone A: Treated by Ops; No Further Treatment (NFT)
 Zone _____:

PARTIAL SEGMENT FILL-IN

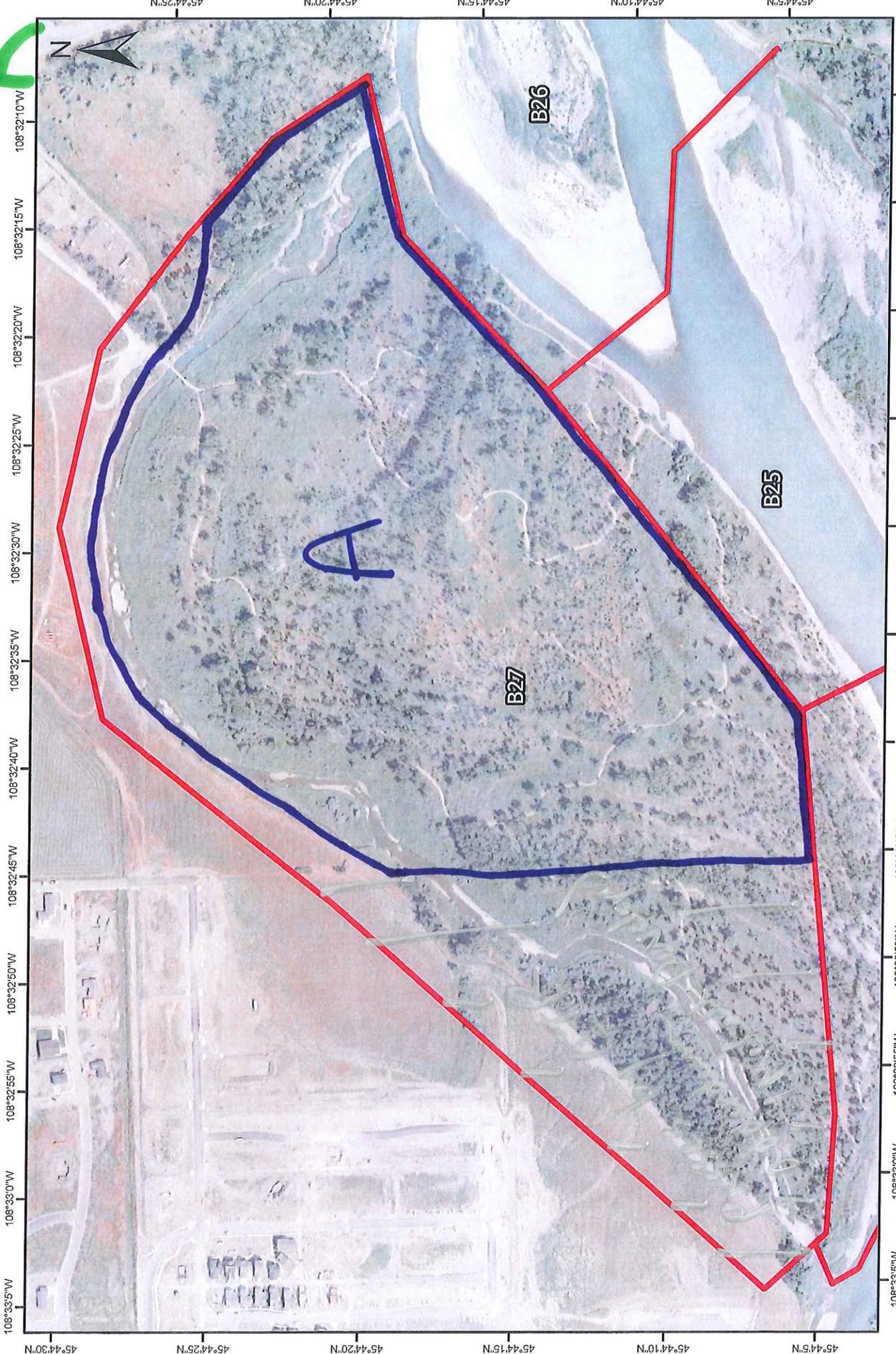
Sketch Yes / No Photos Yes / No Frames _____ Photographer _____

P20tz



B27 RB PARTIAL
T3 9/20/11

R



COMMENTS:

DATE: 8/16/2011

TEAM: S

B27 -



Appendix F

Completed SCAT Segment Sign-Off
Forms

SCAT SEGMENT OPERATIONS COMPLETION SIGN-OFF SHEET

SILVERTIP PIPELINE RELEASE

Segment B27 LB Date of Survey 9/28/11

Dates of Initial SCAT Assessments 06 Jun 2011 
(to be filled out by SCAT Data Management)

CTR(s) Associated with SCAT Segment 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.

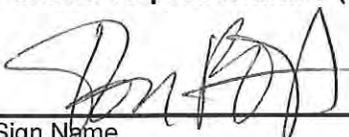
This Segment is Conditionally Approved
(See attached Post Inspection Survey Transmittal (POST))

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 Present

Sign Name _____ Print Name/ Affiliation _____ Date _____

Federal Representative (EPA/USCG)

 Thomas P Borington 9/28/2011
Sign Name _____ Print Name/ Affiliation _____ Date _____

State Representative (DEQ/FWP)

P B Lee Pete Lee / Polaris 9/28/11
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.

Silvertip Pipeline Spill SCAT Segment Sign-Off Sheet

COMPLETED

Operations Division: A (B) C

SCAT Area Number (i.e. A12): B27 (PART)

SCAT Segment Number (i.e. A12-LB/IS/RB): ^{CR 1/5/11} B27/LB

Owner, St of Montana

*B27 * Applies to ENTIRE Segment B27 (LB/RB)*

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):

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

- 5. SCAT Reassessment:

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

Marcile Sigler 8/24/11
 State Representative (DEQ/FWE) 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.