

ExxonMobil Pipeline Company

**SCAT Area Transition Report for
A18**

Silvertip Pipeline Incident
Laurel, Montana

October 18, 2011



SCAT Area Transition Report for A18

Silvertip Pipeline Incident
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 A18, 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 A18.

1.1 Land Ownership and Access Issues

Figure 1 provides an aerial map of SCAT Area A18, 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 A18 is 19.5. There were access issues for an upland portion of the left bank and a small upland portion of the right bank of Area A18.

1.2 Cultural, Historic, and Natural Resource Constraints

No historic properties or cultural resources have been identified within this segment that would affect oil removal activities.

Figure 2 summarizes the natural resources identified in this segment. International Bird Rescue and Resource Advisors from U.S. Fish and Wildlife Service conducted regular inspections of the areas in A18 that did not have access issues. No oiled wildlife was observed or recovered. No Wildlife Priority Cleanup Areas were identified. No active migratory bird nests were identified in Area A18.

1.3 Summary of Environmental Sampling

Table 1 (below) summarizes samples collected within Area A18. 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 A18 are provided on Figure 3.

Table 1 Environmental Sampling Summary

Agency	Sample Num	Date	Matrix	Location	Latitude	Longitude
CTEH	LAMT0709DW203	09-Jul-11	Water_Drinking	LAMT_284_DW203	45.662707	-108.699061
CTEH	LAMT0713DW201	13-Jul-11	Water_Drinking	LAMT_361_DW201	45.660564	-108.70152
CTEH	LAMT0713DW201 DUP	13-Jul-11	Water_Drinking	LAMT_361_DW201	45.660564	-108.70152
CTEH	LAMT0724DW102	24-Jul-11	Water_Drinking	LAMT_302_DW102	45.662636	-108.702881
CTEH	LAMT0724DW103	24-Jul-11	Water_Drinking	LAMT_302_DW103	45.662636	-108.702881
CTEH	LAMT0724IW101	24-Jul-11	Water_Irrigation	LAMT_302_IW101	45.662776	-108.70293
CTEH	LAMT0724SW510	24-Jul-11	Water_Surface	A18	45.661813	-108.703529
CTEH	LAMT0727SO202	27-Jul-11	Soil_Surface	LAMT_406_SO202	45.660507	-108.702987
CTEH	LAMT0727SO203	27-Jul-11	Soil_Surface	LAMT_406_SO203	45.660877	-108.702627
CTEH	LAMT0727SO204	27-Jul-11	Soil_Surface	LAMT_406_SO204	45.661267	-108.702308
CTEH	LAMT0727SO205	27-Jul-11	Soil_Surface	LAMT_406_SO205	45.661649	-108.701906
CTEH	LAMT0727SO206	27-Jul-11	Soil_Surface	LAMT_406_SO206	45.662068	-108.701642
CTEH	LAMT0727SO207	27-Jul-11	Soil_Surface	LAMT_406_SO207	45.662496	-108.701162
CTEH	LAMT0727SO208	27-Jul-11	Soil_Surface	LAMT_406_SO208	45.662828	-108.700675
CTEH	LAMT0727SO209	27-Jul-11	Soil_Surface	LAMT_406_SO209	45.663256	-108.700471
CTEH	LAMT0813SO409	13-Aug-11	Soil_River	SO-A18-03	45.662041	-108.703415
CTEH	LAMT0813SO410	13-Aug-11	Soil_River	SO-A18-09	45.662041	-108.703415
CTEH	LAMT0813SO411	13-Aug-11	Soil_River	SO-A18-05	45.66193	-108.703573
CTEH	LAMT0813SO412	13-Aug-11	Soil_River	SO-A18-04	45.66193	-108.703573
CTEH	LAMT0813SO413	13-Aug-11	Soil_River	SO-A18-08	45.661836	-108.703691
CTEH	LAMT0824SO201	24-Aug-11	Soil_Surface	LAMT_425_SO201	45.662089	-108.703071
CTEH	LAMT0824SO202	24-Aug-11	Soil_Surface	LAMT_425_SO202	45.663293	-108.702154
CTEH	LAMT0824SOBKG206	24-Aug-11	Soil_Surface	LAMT_425_SOBKG206	45.661513	-108.703412
MDEQ	ST-071811-SM2	18-Jul-11	Soil_Surface	ST-SM-02	45.66296	-108.70089
MDEQ	ST-071811-SM3-BG	18-Jul-11	Soil_Surface	ST-SM-03	45.66197	-108.70053
EPA	SPDW205_071311	13-Jul-11	Water_Drinking	SPDW205	45.6605613	-108.7015605
EPA	SPSE103_071211	12-Jul-11	Sediment	SPSE103	45.6617929	-108.7034221
EPA	SPSE104_071211	12-Jul-11	Sediment	SPSE104	45.66179	-108.7034186
EPA	SPSO105D02_071211	12-Jul-11	Soil_Surface	SPSO105	45.6615114	-108.7016192

Appendix A contains a summary of sample results with detections for this sample set. Detections with a result above the screening level are highlighted; for this set, one exceedance is shown for vanadium, total extractable hydrocarbons, C11-C22 aromatics, and C9-C18 aliphatics.

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 A18 are included in Appendix B. Figure 4 provides the maximum oiling zones observed by the SCAT team during the initial surveys of Area A18.

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. 7](#), included as Appendix C).

1.6 Oil Removal Activities

Oil removal activities were conducted within Area A18 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 A18 and developed a Pre-Inspection Survey Transmittal (PIST) associated with the right bank within Area A18, which is presented in Appendix D.

1.8 Post-Inspection Survey Transmittal

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

1.9 Summary of Final SCAT Surveys

Figure 5 shows the oiling conditions within Area A18 following completion of oil removal activities. The SCAT team performed final surveys of the right bank within SCAT Area A18 to confirm the agreed-upon cleanup endpoints identified in the applicable CTRs had been achieved. The final SCAT survey documentation is presented in Appendix F.

1.10 SCAT Area Conclusions

Based on the final SCAT survey performed on the right bank within Area A18, no further treatment is recommended for this area. Based on the initial SCAT survey, no oiling was observed on the left bank of Area A18. A SCAT Segment Sign-Off Sheet is included as Appendix G.



**SCAT Area Transition
Report for A18**

Silvertip Pipeline Incident
Laurel, Montana

2. Transition Sign-Off Form

SCAT Area Transition Report for A18

Prepared for:

Unified Command

Date

Unified Command – RP



**SCAT Area Transition
Report for A18**

Silvertip Pipeline Incident
Laurel, Montana

SCAT Area Transition Report for A18

Prepared for:

Unified Command

9/21/2011

Date

[Handwritten Signature] S. WERRITS

Unified Command – FOSC



**SCAT Area Transition
Report for A18**

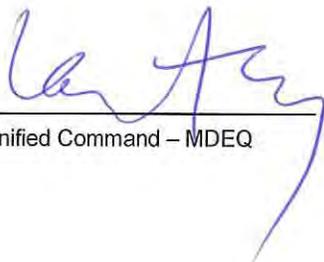
Silvertip Pipeline Incident
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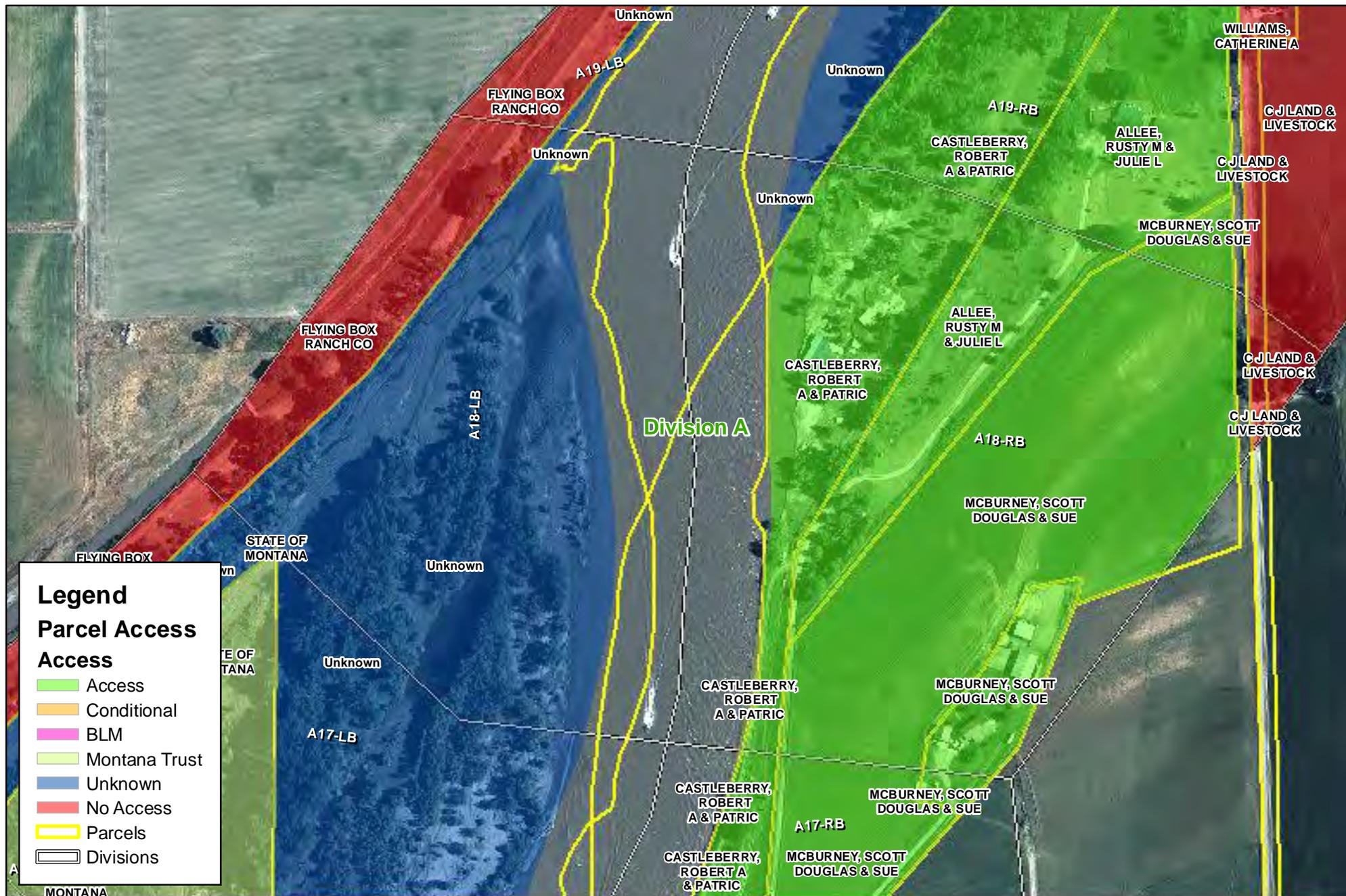
SCAT Area Transition Report for A18

Prepared for:

Unified Command

9/27/11
Date


Unified Command – MDEQ



Legend

Parcel Access

Access

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

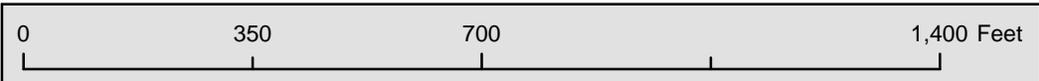


Figure 1

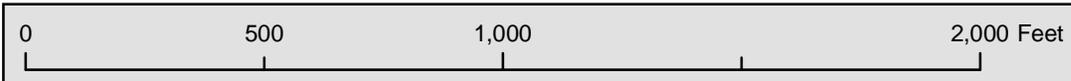
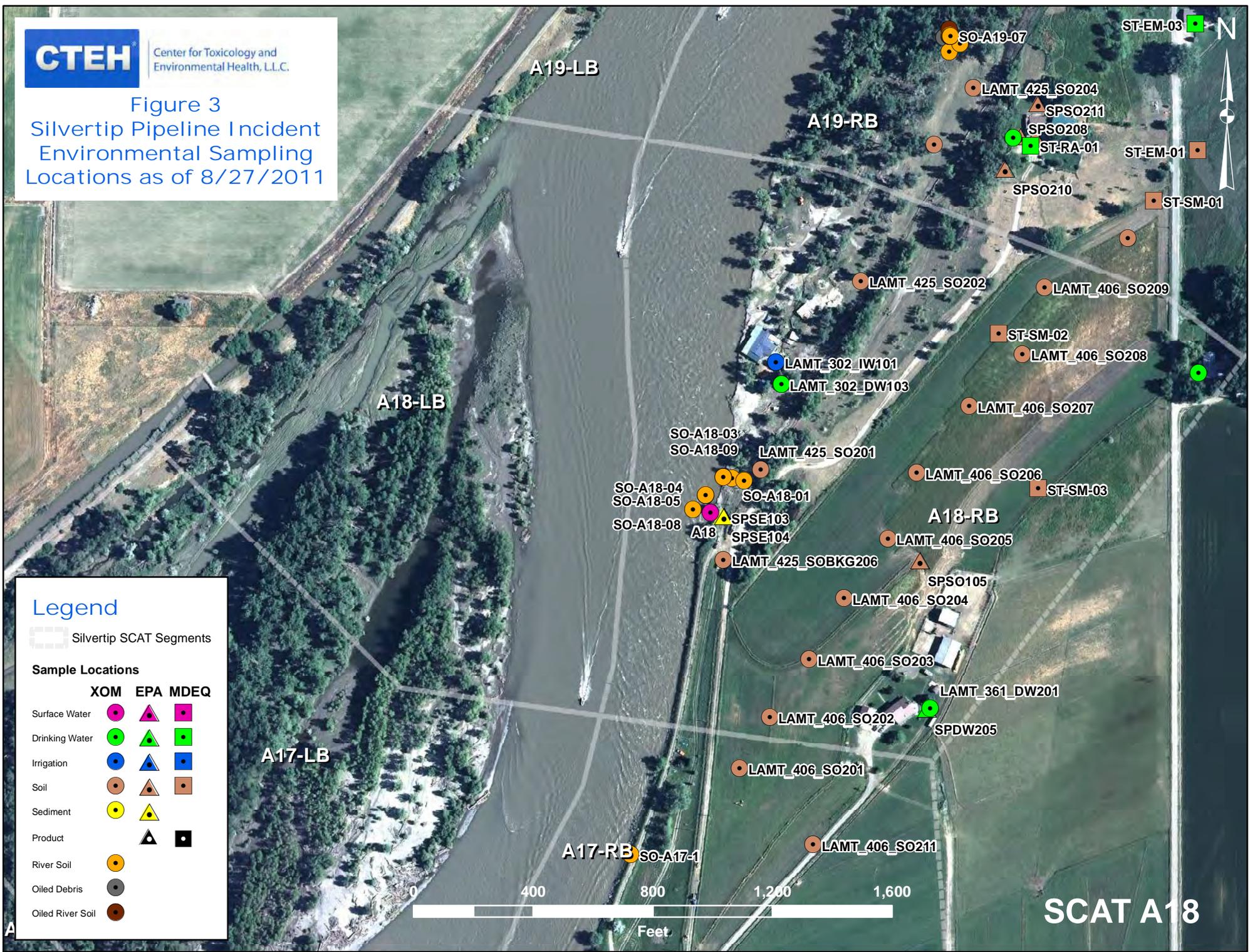


Figure 2
Wildlife Resources



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

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



Legend

Silvertip SCAT Segments

Sample Locations

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

SCAT A18



Legend

- Heavy
- Moderate
- Light
- Very Light
- No Oil Observed

Maximum SCAT Observation

A18

Figure 4



Aerial Reference: July 20, 2011 Aerial by Aerial Surveys International, LLC. Georeferenced to UTM 1983 Zone 12N.



A19-LB

A19-RB

A18-LB

A18-RB

A17-LB

A17-RB

2110

1876

1877

1644

Legend

-  Heavy
-  Moderate
-  Light
-  Very Light
-  No Oil Observed

Final SCAT Observation

A18

Figure 5



Aerial Reference: July 20, 2011 Aerial by Aerial Surveys International, LLC. Georeferenced to UTM 1983 Zone 12N.



Appendix A

Sample Detections Summary



Detections in Samples Collected in SCAT Area A18

Printed 9/7/2011

NA - Not Available

Detected Above Screening Level

Sample Num	Sample Type	Matrix	Analytical Method	Analyte	Detected	Result	Screening Level	Lab Result Qualifier	Units	Above?
LAMT0724SW510	Field	Water_Surface	EPA 1631E	Mercury	Y	0.00000435	0.00005		mg/L	no
LAMT0724SW510	Field	Water_Surface	EPA 6020	Arsenic	Y	3.4	10		ug/L	no
LAMT0724SW510	Field	Water_Surface	EPA 6020	Barium	Y	57.6	1000		ug/L	no
LAMT0724SW510	Field	Water_Surface	EPA 6020	Calcium	Y	26500	NA		ug/L	no
LAMT0724SW510	Field	Water_Surface	EPA 6020	Chromium	Y	2	100		ug/L	no
LAMT0724SW510	Field	Water_Surface	EPA 6020	Lead	Y	2.3	15		ug/L	no
LAMT0724SW510	Field	Water_Surface	EPA 6020	Magnesium	Y	8340	NA		ug/L	no
LAMT0724SW510	Field	Water_Surface	EPA 6020	Nickel	Y	4.8	100		ug/L	no
LAMT0724SW510	Field	Water_Surface	EPA 6020	Potassium	Y	1460	NA		ug/L	no
LAMT0724SW510	Field	Water_Surface	EPA 6020	Sodium	Y	9740	NA		ug/L	no
LAMT0724SW510	Field	Water_Surface	EPA 6020	Vanadium	Y	5.7	NA		ug/L	no
LAMT0724SW510	Field	Water_Surface	SM 2540D	Total Suspended Solids	Y	121	NA		mg/L	no
LAMT0813SO409	Field	Soil_River	EPA 6010	Arsenic	Y	13.4	40		mg/kg	no
LAMT0813SO409	Field	Soil_River	EPA 6010	Barium	Y	103	820		mg/kg	no
LAMT0813SO409	Field	Soil_River	EPA 6010	Cadmium	Y	0.95	3.8		mg/kg	no
LAMT0813SO409	Field	Soil_River	EPA 6010	Chromium	Y	18.8	280		mg/kg	no
LAMT0813SO409	Field	Soil_River	EPA 6010	Lead	Y	7.2	400		mg/kg	no
LAMT0813SO409	Field	Soil_River	EPA 6010	Nickel	Y	10.9	150		mg/kg	no
LAMT0813SO409	Field	Soil_River	EPA 6010	Vanadium	Y	40.3	39		mg/kg	YES
LAMT0813SO409	Field	Soil_River	EPA 9060	Mean Total Organic Carbon	Y	2470	NA		mg/kg	no
LAMT0813SO409	Field	Soil_River	EPA 9060	RSD%	Y	5.8	NA		%	no
LAMT0813SO409	Field	Soil_River	EPA 9060	Total Organic Carbon	Y	2660	NA		mg/kg	no
ST-071811-SM2	Field	Soil_Surface	8015M-MDEQ-REM	o-Terphenyl	Y	87	NA		%	no
ST-071811-SM2	Field	Soil_Surface	8015M-MDEQ-REM	Total Extractable Hydrocarbons	Y	2090	200		mg/kg	YES
ST-071811-SM2	Field	Soil_Surface	8260B	1,2-Dichloroethane-d4	Y	78	NA		%	no
ST-071811-SM2	Field	Soil_Surface	8260B	Dibromofluoromethane	Y	80	NA		%	no
ST-071811-SM2	Field	Soil_Surface	8260B	p-Bromofluorobenzene	Y	85	NA		%	no
ST-071811-SM2	Field	Soil_Surface	8260B	Toluene-d8	Y	82	NA		%	no
ST-071811-SM2	Field	Soil_Surface	8270C	2,4,6-Tribromophenol	Y	94	NA		%	no
ST-071811-SM2	Field	Soil_Surface	8270C	2-Fluorobiphenyl	Y	82	NA		%	no
ST-071811-SM2	Field	Soil_Surface	8270C	Nitrobenzene-D5	Y	76	NA		%	no
ST-071811-SM2	Field	Soil_Surface	8270C	o-Fluorophenol	Y	76	NA		%	no
ST-071811-SM2	Field	Soil_Surface	8270C	Phenol-d5	Y	79	NA		%	no
ST-071811-SM2	Field	Soil_Surface	8270C	Terphenyl-d14	Y	82	NA		%	no



Detections in Samples Collected in SCAT Area A18

Printed 9/7/2011

NA - Not Available

Detected Above Screening Level

Sample Num	Sample Type	Matrix	Analytical Method	Analyte	Detected	Result	Screening Level	Lab Result Qualifier	Units	Above?
ST-071811-SM2	Field	Soil_Surface	MA-EPH-MDEQ-REM	2-Bromonaphthalene	Y	98	NA		%	no
ST-071811-SM2	Field	Soil_Surface	MA-EPH-MDEQ-REM	2-Fluorobiphenyl	Y	108	NA		%	no
ST-071811-SM2	Field	Soil_Surface	MA-EPH-MDEQ-REM	C11-C22 Aromatics	Y	817	400		mg/kg	YES
ST-071811-SM2	Field	Soil_Surface	MA-EPH-MDEQ-REM	C19-C36 Aliphatics	Y	872	20000		mg/kg	no
ST-071811-SM2	Field	Soil_Surface	MA-EPH-MDEQ-REM	C9-C18 Aliphatics	Y	359	200		mg/kg	YES
ST-071811-SM2	Field	Soil_Surface	MA-EPH-MDEQ-REM	Octadecane, 1-chloro-	Y	135	NA		%	no
ST-071811-SM2	Field	Soil_Surface	MA-VPH-MDEQ-REM	C9-C10 Aromatics	Y	3.7	100		mg/kg	no
ST-071811-SM2	Field	Soil_Surface	MA-VPH-MDEQ-REM	C9-C12 Aliphatics	Y	2.6	NA		mg/kg	no
ST-071811-SM2	Field	Soil_Surface	MA-VPH-MDEQ-REM	Naphthalene	Y	0.1	4		mg/kg	no
ST-071811-SM2	Field	Soil_Surface	MA-VPH-MDEQ-REM	Total Purgeable Hydrocarbons	Y	23	200		mg/kg	no
ST-071811-SM2	Field	Soil_Surface	MA-VPH-MDEQ-REM	VPH Aliphatics Surrogate	Y	87	NA		%	no
ST-071811-SM2	Field	Soil_Surface	MA-VPH-MDEQ-REM	VPH Aromatics Surrogate	Y	79	NA		%	no
ST-071811-SM2	Field	Soil_Surface	NONE-MDEQ-REM	Moisture content	Y	26	NA		% by wt	no
ST-071811-SM3-BG	Field	Soil_Surface	8015M-MDEQ-REM	o-Terphenyl	Y	91	NA		%	no
ST-071811-SM3-BG	Field	Soil_Surface	8015M-MDEQ-REM	Total Extractable Hydrocarbons	Y	30	200		mg/kg	no
ST-071811-SM3-BG	Field	Soil_Surface	8260B	1,2-Dichloroethane-d4	Y	82	NA		%	no
ST-071811-SM3-BG	Field	Soil_Surface	8260B	Dibromofluoromethane	Y	87	NA		%	no
ST-071811-SM3-BG	Field	Soil_Surface	8260B	p-Bromofluorobenzene	Y	90	NA		%	no
ST-071811-SM3-BG	Field	Soil_Surface	8260B	Toluene-d8	Y	88	NA		%	no
ST-071811-SM3-BG	Field	Soil_Surface	8270C	2,4,6-Tribromophenol	Y	91	NA		%	no
ST-071811-SM3-BG	Field	Soil_Surface	8270C	2-Fluorobiphenyl	Y	77	NA		%	no
ST-071811-SM3-BG	Field	Soil_Surface	8270C	Nitrobenzene-D5	Y	73	NA		%	no
ST-071811-SM3-BG	Field	Soil_Surface	8270C	o-Fluorophenol	Y	76	NA		%	no
ST-071811-SM3-BG	Field	Soil_Surface	8270C	Phenol-d5	Y	75	NA		%	no
ST-071811-SM3-BG	Field	Soil_Surface	8270C	Terphenyl-d14	Y	77	NA		%	no
ST-071811-SM3-BG	Field	Soil_Surface	MA-VPH-MDEQ-REM	VPH Aliphatics Surrogate	Y	111	NA		%	no
ST-071811-SM3-BG	Field	Soil_Surface	MA-VPH-MDEQ-REM	VPH Aromatics Surrogate	Y	101	NA		%	no
ST-071811-SM3-BG	Field	Soil_Surface	NONE-MDEQ-REM	Moisture content	Y	15	NA		% by wt	no
LAMT0724DW102	Field	Water_Drinking	E524.2	Bromodichloromethane	Y	0.23	10	J	ug/L	no
LAMT0724DW102	Field	Water_Drinking	E524.2	Chloroform	Y	9.3	70		ug/L	no
LAMT0724DW102	Field	Water_Drinking	E524.2	Trihalomethanes, Total	Y	9.5	100		ug/L	no
LAMT0724DW102	Field	Water_Drinking	EPA 8260	Chloroform	Y	10.1	70		ug/L	no
LAMT0724DW103	Field	Water_Drinking	E524.2	Bromodichloromethane	Y	0.22	10	J	ug/L	no
LAMT0724DW103	Field	Water_Drinking	E524.2	Chloroform	Y	8.7	70		ug/L	no



Detections in Samples Collected in SCAT Area A18

Printed 9/7/2011

NA - Not Available

Detected Above Screening Level

Sample Num	Sample Type	Matrix	Analytical Method	Analyte	Detected	Result	Screening Level	Lab Result Qualifier	Units	Above?
LAMT0724DW103	Field	Water_Drinking	E524.2	Trihalomethanes, Total	Y	8.9	100		ug/L	no
LAMT0724DW103	Field	Water_Drinking	EPA 8260	Chloroform	Y	11.2	70		ug/L	no
SPSO105D02_071211	Field	Soil_Surface	MADEP EPH	Total Extractable Hydrocarbons	Y	69.1	200		mg/kg	no
LAMT0727SO202	Field	Soil_Surface	EPA 6010	Arsenic	Y	13.1	40		mg/kg	no
LAMT0727SO202	Field	Soil_Surface	EPA 6010	Barium	Y	126	820		mg/kg	no
LAMT0727SO202	Field	Soil_Surface	EPA 6010	Cadmium	Y	1.1	3.8		mg/kg	no
LAMT0727SO202	Field	Soil_Surface	EPA 6010	Chromium	Y	19.1	280		mg/kg	no
LAMT0727SO202	Field	Soil_Surface	EPA 6010	Lead	Y	9.3	400		mg/kg	no
LAMT0727SO203	Field	Soil_Surface	EPA 6010	Arsenic	Y	15.5	40		mg/kg	no
LAMT0727SO203	Field	Soil_Surface	EPA 6010	Barium	Y	146	820		mg/kg	no
LAMT0727SO203	Field	Soil_Surface	EPA 6010	Cadmium	Y	1.2	3.8		mg/kg	no
LAMT0727SO203	Field	Soil_Surface	EPA 6010	Chromium	Y	22	280		mg/kg	no
LAMT0727SO203	Field	Soil_Surface	EPA 6010	Lead	Y	10.5	400		mg/kg	no
LAMT0727SO204	Field	Soil_Surface	EPA 6010	Arsenic	Y	14	40		mg/kg	no
LAMT0727SO204	Field	Soil_Surface	EPA 6010	Barium	Y	131	820		mg/kg	no
LAMT0727SO204	Field	Soil_Surface	EPA 6010	Cadmium	Y	1.2	3.8		mg/kg	no
LAMT0727SO204	Field	Soil_Surface	EPA 6010	Chromium	Y	21	280		mg/kg	no
LAMT0727SO204	Field	Soil_Surface	EPA 6010	Lead	Y	10.1	400		mg/kg	no
LAMT0727SO205	Field	Soil_Surface	EPA 6010	Arsenic	Y	13.2	40		mg/kg	no
LAMT0727SO205	Field	Soil_Surface	EPA 6010	Barium	Y	127	820		mg/kg	no
LAMT0727SO205	Field	Soil_Surface	EPA 6010	Cadmium	Y	1.2	3.8		mg/kg	no
LAMT0727SO205	Field	Soil_Surface	EPA 6010	Chromium	Y	19.6	280		mg/kg	no
LAMT0727SO205	Field	Soil_Surface	EPA 6010	Lead	Y	9.3	400		mg/kg	no
LAMT0727SO206	Field	Soil_Surface	EPA 6010	Arsenic	Y	11.8	40		mg/kg	no
LAMT0727SO206	Field	Soil_Surface	EPA 6010	Barium	Y	109	820		mg/kg	no
LAMT0727SO206	Field	Soil_Surface	EPA 6010	Cadmium	Y	1	3.8		mg/kg	no
LAMT0727SO206	Field	Soil_Surface	EPA 6010	Chromium	Y	18	280		mg/kg	no
LAMT0727SO206	Field	Soil_Surface	EPA 6010	Lead	Y	8.7	400		mg/kg	no
LAMT0727SO207	Field	Soil_Surface	EPA 6010	Arsenic	Y	15	40		mg/kg	no
LAMT0727SO207	Field	Soil_Surface	EPA 6010	Barium	Y	149	820		mg/kg	no
LAMT0727SO207	Field	Soil_Surface	EPA 6010	Cadmium	Y	1.3	3.8		mg/kg	no
LAMT0727SO207	Field	Soil_Surface	EPA 6010	Chromium	Y	22	280		mg/kg	no
LAMT0727SO207	Field	Soil_Surface	EPA 6010	Lead	Y	12.9	400		mg/kg	no
LAMT0727SO208	Field	Soil_Surface	EPA 6010	Arsenic	Y	13.6	40		mg/kg	no



Detections in Samples Collected in SCAT Area A18

Printed 9/7/2011

NA - Not Available

Detected Above Screening Level

Sample Num	Sample Type	Matrix	Analytical Method	Analyte	Detected	Result	Screening Level	Lab Result Qualifier	Units	Above?
LAMT0727SO208	Field	Soil_Surface	EPA 6010	Barium	Y	135	820		mg/kg	no
LAMT0727SO208	Field	Soil_Surface	EPA 6010	Cadmium	Y	1.2	3.8		mg/kg	no
LAMT0727SO208	Field	Soil_Surface	EPA 6010	Chromium	Y	20.2	280		mg/kg	no
LAMT0727SO208	Field	Soil_Surface	EPA 6010	Lead	Y	11.7	400		mg/kg	no
LAMT0727SO208	Field	Soil_Surface	MADEP EPH	Total Extractable Hydrocarbons	Y	89.8	200		mg/kg	no
LAMT0727SO209	Field	Soil_Surface	EPA 6010	Arsenic	Y	15.3	40		mg/kg	no
LAMT0727SO209	Field	Soil_Surface	EPA 6010	Barium	Y	143	820		mg/kg	no
LAMT0727SO209	Field	Soil_Surface	EPA 6010	Cadmium	Y	1.3	3.8		mg/kg	no
LAMT0727SO209	Field	Soil_Surface	EPA 6010	Chromium	Y	21.4	280		mg/kg	no
LAMT0727SO209	Field	Soil_Surface	EPA 6010	Lead	Y	11.6	400		mg/kg	no



Appendix B

Initial SCAT Survey Forms and
Sketches

DB/A/SC

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 11-Jul-2011	Time (24h): std / daylight 1056 hrs to 1057 hrs	Water Level low - mean - bankfull - <u>overbank</u> falling - steady - rising
Segment/Reach ID: A18 Left Bank / <u>Right Bank</u> / Island				
Operations Division: A				
Survey by: Foot / ATV / <u>Boat</u> / Helicopter / Overlook / _____		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>29.4</u> deg C

2 SURVEY TEAM # 2 & 4	name	organization	contact phone number
Andrew Milanes		Polaris	
Tom Freeman		Polaris	
Andrew Johnson		USCG	
Travis Olson		USCG	

3 SEGMENT Total Segment/Reach Length _____ m Segment/Reach Length Surveyed 410 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 S Permeable _____ (type) _____ Wetland: Swamp _____ Bog/Fen _____ Marsh _____

Sediment Bank: Clay/Mud _____ Sand _____ Mixed S Pebble/Cobble S 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 _____ braided X oxbow _____ flood plain valley _____ Forested / Vegetated / Bare

4C RIVER CHANNEL CHARACTER circle or select as appropriate

est. width: <1m 1-10 m 10-100 m >100m 125m est. water depth: <1 m 1-3 m 3-10 m >10 m _____ m

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

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

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

Debris: Y/N oiled Y/N amount _____ bags or 1 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

41
82
95

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		73	1	95			X	X		X									Grass, trees, debris
B			X		227	1															X	Grass, trees, debris, rocks
C			X		109	1	95			X	X		X									Grass, trees, debris

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

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

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

Zone A & C Oiled Band Height: 40cm

Due to survey platform (jet-drive boat) oil band width and heights are estimates. Unable to verify by foot.

Cleanup Recommendations: Trim oiled vegetation; wipe large oiled debris; remove small oiled debris; wipe oiled trees;

(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# _____)



SCAT Teams 2 & 4 Survey

Segment A18 Right Bank

11-Jul-2011



Legend

-  Oil Zones
-  Segment Boundaries



SCAT Teams 2 & 4 Survey

Segment A18 Left Bank

11-Jul-2011



Legend

 Oil Zones

 Segment Boundaries

D13/G

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

1 GENERAL INFORMATION		Date (dd/mm/yy) 05/09/11	Time (24h): std / daylight 1030 hrs to 1230 hrs	Water Level low - <u>mean</u> - bankfull - overbank falling - steady - rising
Segment/Reach ID: <u>A18</u> (Left Bank / Right Bank / Island)		Operations Division:		
Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook / _____		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- <u>22</u> deg C

2 SURVEY TEAM # 2	Name	Organization	Signature
Pete Lee		Polaris	<i>[Signature]</i>
Lee Burroughs		MTFWP	<i>[Signature]</i>
Steve Merritt		USEPA	<i>[Signature]</i>

3 SEGMENT Total Segment/Reach Length 410 m Segment/Reach Length Surveyed 410 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 XP 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

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	410	200															X	Grass, trees, debris

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

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

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

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

Oil height:

Treatment recommendations:

Zone A : No oil ; no treatment required

Zone :

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



A18 LB
T2 9/5/11



Appendix C

Applicable Compiled Treatment
Recommendations

Compiled Treatment Recommendations – 7A, 18R, A19R, 20R

SCAT Segments Covered:

A18 (Right Bank), A19 (Right Bank), A20 (right Bank)

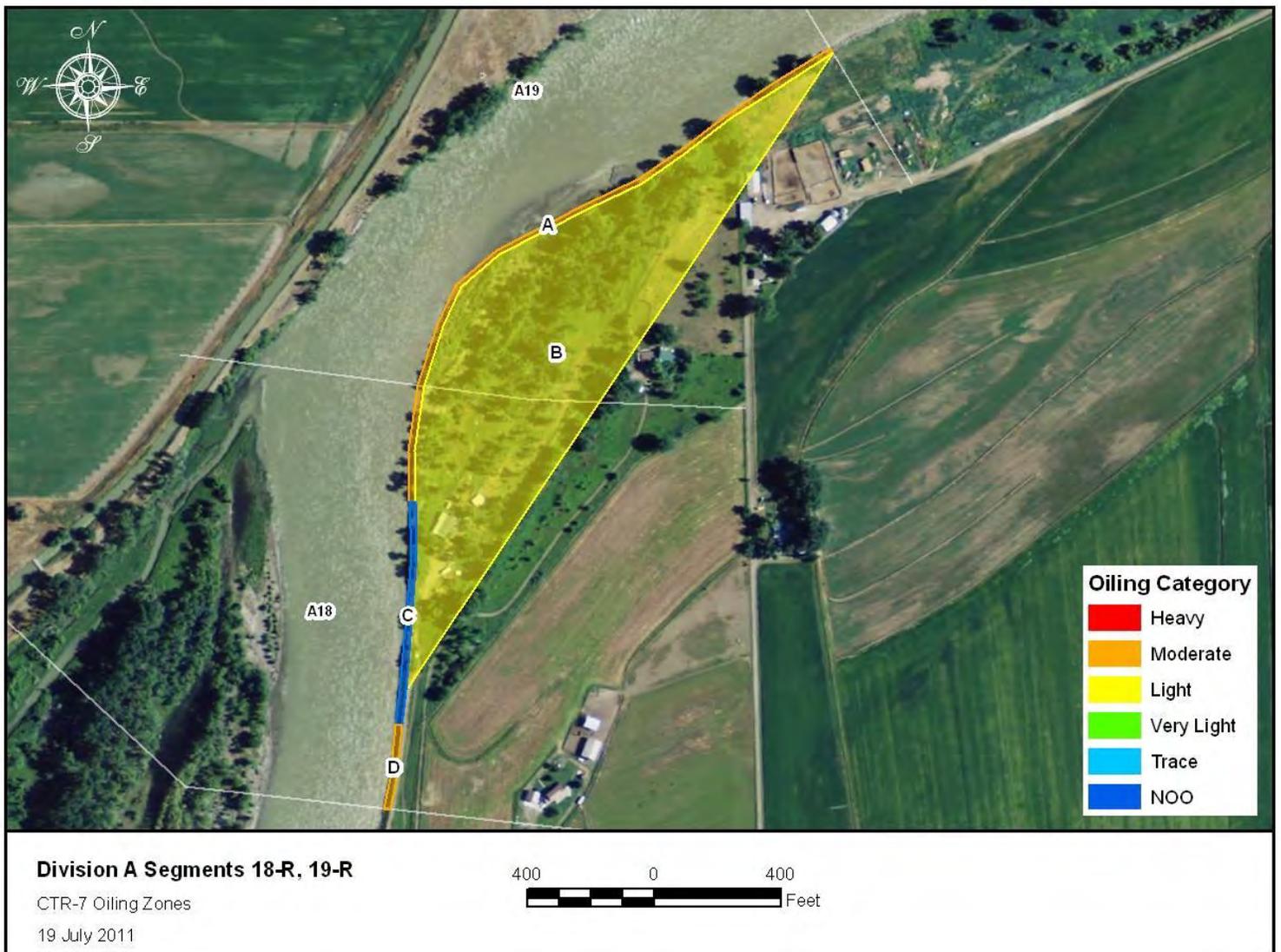
SCAT Survey Dates: 14-Jul-2011, 11-Jul-2011 (See attached Riverine SCAT Forms)

Ops Sites Covered:

4a, 4c

Refer to current approved treatment methods:

#1 Cutting of Vegetation, #2 Dead Vegetation and Small Debris, #3 Large Woody Debris, #6 Sorbent Use



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Zone A and D:

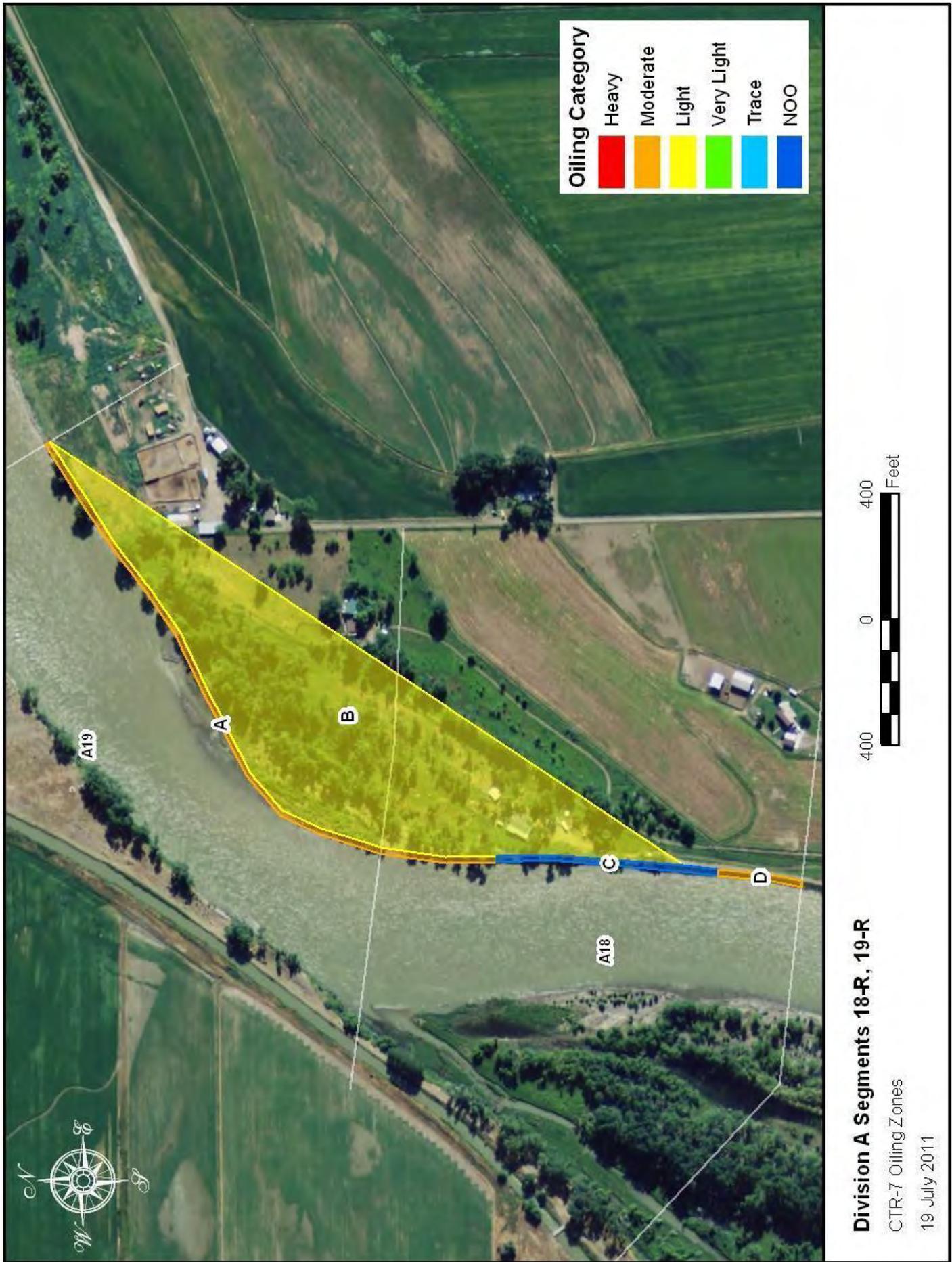
Primary Oiling Conditions: ~95% distribution of oiled debris (coat), oil coat/stain on vegetation within 5 meters of the bank.

Cleanup Recommendations: Cut and remove oil-coated vegetation smaller than 1" diameter. Remove oil-coated debris smaller than 4" diameter. Do not cut grass shorter than 2" from the ground. Wipe larger oil-coated vegetation and debris. **Pending further authorization, the size and quantity of oil coated debris in this zone may warrant alternative cleanup methods such as burning or removal.**



Do not cut grass shorter than 2" from the ground.





Zone B:

Primary Oiling Conditions: ~10% distribution of oiled debris (cover and coat) and oil cover on vegetation within 5 meters of the bank.

Cleanup Recommendations: Cut and remove oil-coated vegetation smaller than 1" diameter. Do not cut grass shorter than 2" from the ground. Wipe oil-coated vegetation larger than 1" diameter. Only remove oil-coated debris smaller than 4" diameter. Wipe oil-coated debris larger than 4" diameter.



Do not cut grass shorter than 2" of the ground.





Division A Segments 18-R, 19-R

CTR-7 Oiling Zones

19 July 2011

Zone C:

Primary Oiling Conditions: No oil observed.

Cleanup Recommendations: None.





Division A Segments 18-R, 19-R

CTR-7 Oiling Zones

19 July 2011



Appendix D

Pre-Inspection Survey Transmittal

5

SCAT – Pre Inspection Survey Transmittal (PIST) Memo

Survey Date: 8/8/11

Segment: A18 RB

Team: SCAT Liaison Ray McKelvey Signed: 

Observer _____ Signed: _____

Observer _____ Signed: _____

Observer _____ Signed: _____

X
Segment meets criteria? YES X NO _____

RBOS attached? YES X NO _____

If NO:
Location Sketch attached? YES _____ NO X

CTR continue? YES _____ NO X

Comments: **This segment involves claims**



Appendix E

Post-Inspection Survey Transmittal

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



Appendix F

Final SCAT Survey Forms and
Sketches

DB/G

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

Page _____ of _____

1 GENERAL INFORMATION		Date (dd/mm/yy)	Time (24h): std / daylight	Water Level
Segment/Reach ID: <u>A14</u>	Left Bank / Right Bank / Island	<u>25/8/2011</u>	<u>930</u> hrs to <u>1030</u> hrs	low - mean - bankfull - overbank
Operations Division: <u>A</u>				falling - steady - rising
Survey by: <u>Foot / ATV / Boat / Helicopter / Overlook /</u>	Sun / <u>Clouds</u> / Fog / Rain / Snow / Windy / Calm			Air Temp +/- <u>30</u> deg C

2 SURVEY TEAM # <u>1</u>	Name	Organization	Signature
	<u>Charles Pears</u>	<u>Contractor ENTRIX</u>	<u>Charles Pears</u>
	<u>Robert Ashton</u>	<u>MOEA</u>	<u>Robert Ashton</u>
	<u>Justin Hawkaluk</u>	<u>MFWP</u>	<u>Justin Hawkaluk</u>
	<u>Linda Watson</u>	<u>EPA</u>	<u>Linda Watson</u>

3 SEGMENT Total Segment/Reach Length 420 m Segment/Reach Length Surveyed 420 m

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

End GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min.

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

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

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

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

4B RIVER VALLEY CHARACTER select as appropriate complete for primary

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

Sloped: (>5°)(15°)(30°) straight P 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 120 est. water depth: <1m 1-3m 3-10m >10m _____ m

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

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

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

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

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

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

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER						SUBST. TYPE(S)			
	MS	LB	UB	OB	Length	Width	Distrib.	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR		AP	NO	
					m	m	%															
A				<u>Y</u>	<u>420</u>	<u>50</u>	<u>0</u>														<u>N</u>	<u>S</u>
B				<u>X</u>	<u>280</u>	<u>85</u>	<u>cl</u>			<u>S</u>	<u>P</u>						<u>P</u>					<u>S</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 - No oil observed

Zone B - sporadic stain + coat partly leak on trees

All could be removed by cut and haul or checked by hot shot crew

No further action

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



A18 RB
SCAT 1
25 Aug 2011

A-B

A-

A18

4a X

W108°41'54.24"

W108°42'20.16"

©2011 Google
to Google

Eye alt 5479 ft

©2011 Google
45°39'43.56" N 108°42'10.11" W elev 3238 ft

1996

Imagery Date: 4/30/2004

RIVER BANK OILING SUMMARY FORM for Silvertip Pipeline Incident

DB 19

R

1 GENERAL INFORMATION		Date (dd/mm/yy) 08/19/2011	Time (24h): std / daylight 0945 hrs to 1020 hrs	Water Level low - <u>mean</u> - bankfull - overbank falling / steady - rising
Segment/Reach ID: A18 Left Bank / <u>Right Bank</u> / Island		Operations Division: <u>A</u>		
Survey by: <u>Foot</u> / ATV / Boat / Helicopter / Overlook /		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp +/- 3.2 deg C

2 SURVEY TEAM # <u>6</u>	Name	Organization	Signature
Chris Arredondo		CardnoENTRIX	
Bob Nailon		CardnoENTRIX	<i>[Signature]</i>
Lance Richman		EPA	
Larry Alheim		DEQ	<i>[Signature]</i>

3 SEGMENT Total Segment/Reach Length 402 m Segment/Reach Length Surveyed 310 m

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

End GPS: LATITUDE _____ deg. _____ min. LONGITUDE _____ deg. _____ min.

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

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

Sediment Bank: Clay/Mud _____ Sand (S) Mixed _____ 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: Sand

Sloped: (>5°)(15°)(30°) straight X 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 0 bags or 0 trucks access restrictions

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

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

OIL ZONE ID	RIVER BANK ZONE				OIL COVER			OIL THICKNESS					OIL CHARACTER						SUBST. TYPE(S)			
	MS	LB	UB	OB	Length	Width	Distrib.	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR		AP	NO	
	m	m	%	m	m	%																
<u>1644</u> A				X	310	72	<1				X							X	(X)			Debris, shrubs, trees

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

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

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

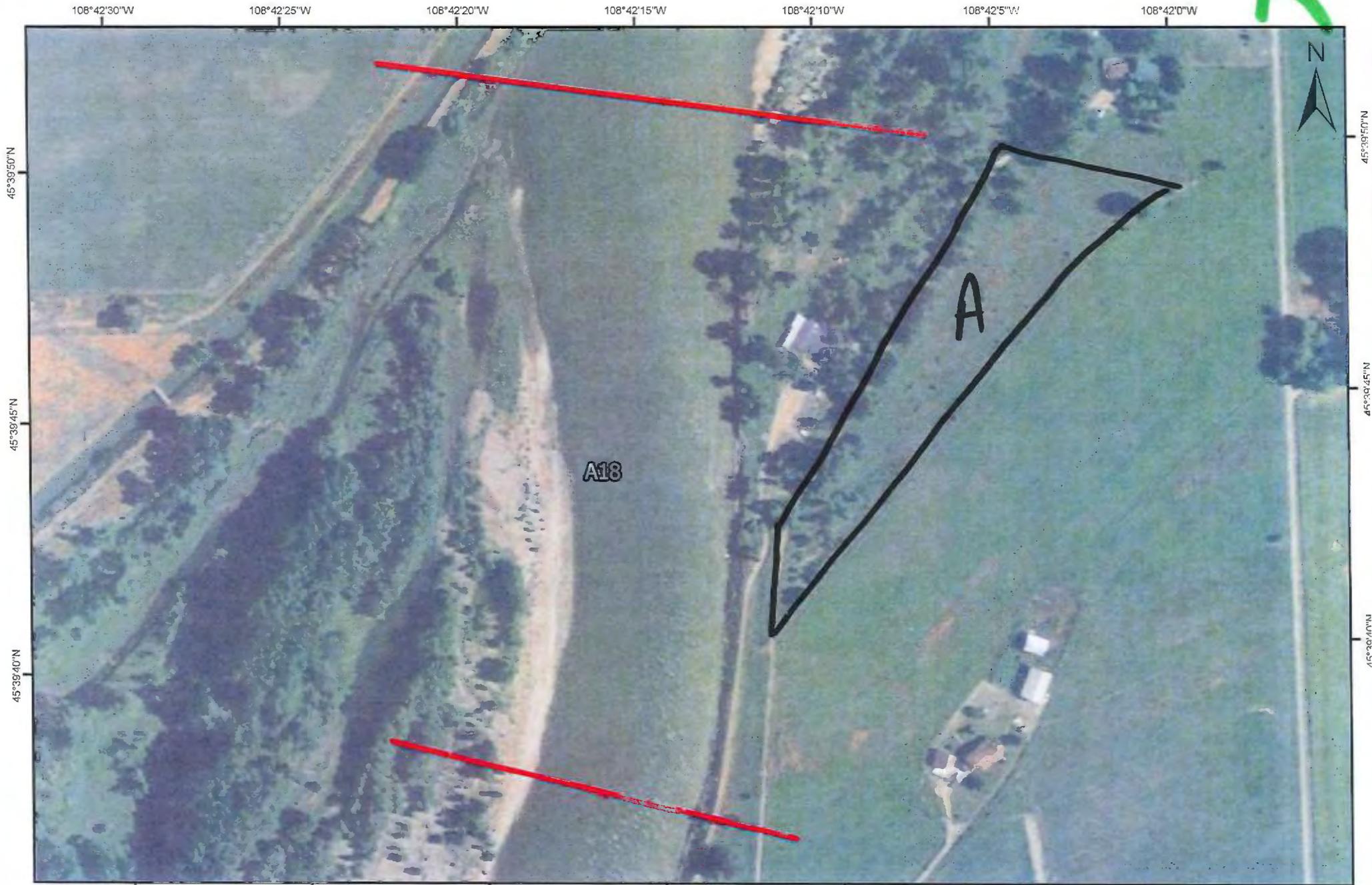
Overbank Survey Required Y/N Overbank Survey Completed Y/N Shoreline Survey Completed Y/N

RE-SCAT!!!

Zone A: This zone was treated in accordance with the CTR and meets its objectives. No further treatment recommended.

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

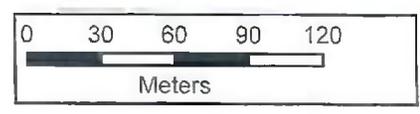
R



A18 -
(LR)??

DATE: 8/19/2011
TEAM: 6

COMMENTS:





Appendix G

Completed SCAT Segment Sign-Off
Forms

Silvertip Pipeline Spill SCAT Segment Sign-Off Sheet

COMPLETED

Operations Division: <u> A </u> <u> Y </u> <u> B </u> <u> C </u>
SCAT Area Number (i.e. A12): <u> A18 </u>
SCAT Segment Number (i.e. A12-LB/IS/RB): <u> A18RB </u>

*Part 1
CK 7/21/11*

Check if Complete:

1. Completion Date for Initial SCAT Assessment: 11/5/11
2. Combined Treatment Recommendations (CTRs) Developed/Issued: Yes/No
List CTRs Applicable to SCAT Segment: 7
3. Clean-Up Operations Conducted:
4. Meets Qualitative Approved Treatment Methods Target Endpoints: Yes/No

5. SCAT Reassessment:

<i>Linda R. Blach</i>	Linda R. Watson	8/25/11
Sign Name Federal Representative (EPA/USCG)	Print Name	Date

<i>Justin Hawkaluk</i>	Justin Hawkaluk	8/25/11
Sign Name State Representative (DEQ/FWP)	Print Name	Date

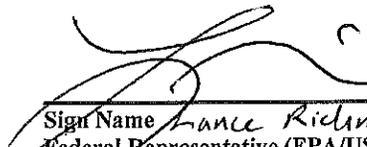
<i>Charles P...</i>	Charles P...	8-25-11
Sign Name RP Representative (SCAT Contractor)	Print Name	Date

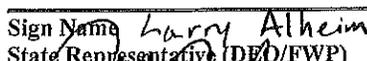
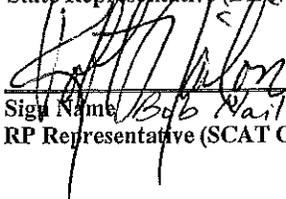
Once all applicable SCAT Segments (i.e. LB, RB, and IS) within a particular SCAT Area (i.e. A21) have been successfully signed-off during a formal SCAT Reassessment, the SCAT area will achieve the response endpoints and an Area Transition Report will be completed and submitted to EPA and DEQ upon completion.

Silvertip Pipeline Spill SCAT Segment Sign-Off Sheet

Operations Division: <u>A X</u> <u>B</u> <u>C</u>
SCAT Area Number (i.e. A12): <u>A18</u>
SCAT Segment Number (i.e. A12-LB/IS/RB): <u>A18-RB</u>

- | | |
|---|--|
| | Check if Complete: |
| 1. Completion Date for Initial SCAT Assessment: _____ | <input type="checkbox"/> |
| 2. Combined Treatment Recommendations (CTRs) Developed/Issued: _____
List CTRs Applicable to SCAT Segment: _____ | Yes/No |
| 3. Clean-Up Operations Conducted: _____ | <input checked="" type="checkbox"/> |
| 4. Meets Qualitative Approved Treatment Methods Target Endpoints: _____ | <input checked="" type="checkbox"/> Yes/No |
| 5. SCAT Reassessment: | |

	Lance Richman	8/25/11
Sign Name Federal Representative (EPA/USCG)	Print Name	Date

	Larry Alheim	
Sign Name State Representative (DEQ/FWP)	Print Name	Date
	Bob Nailon - Cardno ENTRIX	8/19/11
Sign Name RP Representative (SCAT Contractor)	Print Name	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.