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ExxonMobil Pipeline Company

Summary of Assessment and Oil Removal Activities

Silvertip Pipeline Incident
Laurel, Montana

November 2011

Summary of Assessment and Oil Removal Activities

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ExxonMobil Pipeline Company

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Acronyms and Abbreviations

AO	Administrative Order
ATM	approved treatment method
BLM	Bureau of Land Management
CSV	Culturally Sensitive Vegetation
CTEH	Center for Toxicology and Environmental Health, Inc.
CTR	compiled treatment recommendation
DNRC	Montana Department of Natural Resources and Conservation
EMPCo	ExxonMobil Pipeline Company
IBR	International Bird Rescue
IS	island
LB	left bank
MBTA	Migratory Bird Treaty Act
MDEQ	Montana Department of Environmental Quality
MT-FWP	Montana Fish, Wildlife, and Parks
NFA	no further action
NFT	no further treatment
NOO	no oil observed
PIST	Pre-Inspection Survey Transmittal
POST	Post-Inspection Survey Transmittal

PPE	personal protective equipment
RB	right bank
RP	Responsible Party (ExxonMobil Pipeline Company)
SATR	SCAT Area Transition Report
SCAT	Shoreline Cleanup Assessment Technique
USCG	United States Coast Guard
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
UTV	utility terrain vehicle
WPCA	Wildlife Priority Cleanup Area

1. Introduction and Background

The purpose of this Summary of Assessment and Oil Removal Activities is to describe the process implemented along the riverbanks and floodplain of the Yellowstone River (the river) at and downstream of the Silvertip Pipeline Incident, to determine the extent of oiling and appropriate oil remediation activities, and confirm implementation of these activities. Oil assessment and remediation activities conducted in each area of the river are summarized in corresponding Shoreline Cleanup Assessment Technique (SCAT) Area Transition Reports (SATRs). This report provides information and details related to the oil remediation activities completed along the Yellowstone River that are not included in the SATRs. This report is designed to be used as a resource and reference when reviewing or using the SATRs. The outline of this report follows the outline of the SATRs; a complete outline of the SATRs including figures, tables, and appendices is found below:

Report Section	Section Title
1.	Executive Summary
1.1	Land Ownership and Access Issues
1.2	Cultural, Historic, and Natural Resource Constraints
1.3	Summary of Environmental Sampling
1.4	Summary of Initial SCAT Surveys
1.5	Applicable Compiled Treatment Recommendations
1.6	Oil Removal Activities
1.7	Pre-Inspection Survey Transmittal
1.8	Post-Inspection Survey Transmittal
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2	Wildlife Resources
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A	Sample Detections Summary

Report Section	Section Title
B	Initial SCAT Survey Forms and Sketches
C	Pre-Inspection Survey Transmittal
D	Post-Inspection Survey Transmittal
E	Final SCAT Survey Forms and Sketches
F	Completed SCAT Segment Sign-Off Forms
G	Exception Memos (if necessary)

It should be noted that the process initially identified following the Silvertip Pipeline Incident for implementing oil remediation activities along the river was modified as improvements to the process were identified. Due to the adaptive nature of the organization established to manage the remediation activities and changing environmental conditions described herein, improvements identified for activities were implemented and methods were modified to complete the necessary response activities. The evolution of the assessment and remediation process will be presented in this report.

On July 1, 2011, there was a release of crude oil from the Silvertip Pipeline located near Laurel, Montana (hereinafter referred to as the Silvertip Pipeline Incident). Subsequently, ExxonMobil Pipeline Company (EMPCo) activated its Emergency Response Plan to provide a rapid and comprehensive response to the incident. An Incident Action Plan was developed to manage the release response activities as specified in the Incident Command System (EMPCo 2011a). In addition, the U.S. Environmental Protection Agency (USEPA) issued an Administrative Order (AO) requiring certain activities to remediate the release pursuant to the Clean Water Act. A copy of the AO is presented in Appendix A.

The general layout of, and documents to be included in, the SATRs was agreed upon by the Responsible Party (EMPCo), the Montana Department of Environmental Quality (MDEQ), and the USEPA.

1.1 Land Ownership and Access

1.1.1 River Divisions and Areas

For operational purposes, the area downstream of the release was divided into eight Divisions, as follows:

- Division A: Silvertip Pipeline Incident point to the intersection of Rudio Road and Duck Creek Road. Division A includes the source area.
- Division B: Intersection of Rudio Road and Duck Creek Road to Alkali Creek.
- Division C: Alkali Creek to Yellowstone County – Treasure County border.
- Division D: Yellowstone County – Treasure County border to Treasure County – Rosebud County border.
- Division E: Treasure County – Rosebud County border to Rosebud County – Custer County border.
- Division F: Rosebud County – Custer County border to Custer County – Prairie County border.
- Division G: Custer County – Prairie County border to Prairie County – Dawson County border.
- Division H: Prairie County – Dawson County border to Dawson County – Richland County border.

No oil was observed in River Divisions D through H. Although no oil was observed, sampling may have been conducted at properties along these river segments. River Divisions A, B, and C were further divided into Areas. Each River Division includes the following Areas:

- Areas A01 through A29 for River Division A;
- Areas B01 through B45 for River Division B; and
- Areas C01 through C88 for River Division C.

The Areas were further subdivided into segments such that each Area includes a left bank (LB) segment and right bank (RB) segment of the river. References to the left bank and right bank of the river are made with respect to viewing the river in the downstream direction. The bank segments begin at the edge of the water and extend beyond the top-of-bank. In some instances, an island (IS) segment is located within an Area. Due to the high river elevation at the time of the release and the steady drop in the river elevation since that time, IS segments have changed size and shape since the

oil remediation process was initiated. Additionally some islands and river banks were substantially altered by high velocity floodwaters. Preexisting aerial photography was updated by mission-specific high resolution true color and infrared photo imagery flown July 18, 2011, which serves as a background layer for maps in the SATRs.

1.1.2 Land Access

To initiate the oil remediation activities, SCAT teams first gained permission to access to the LB segment, RB segment, and IS segment (if any) located within each river area. Parcel boundary and parcel owner information were obtained from several sources including:

- Montana Cadastral Mapping, Yellowstone County Tax Parcel database;
- Claims adjustors; and
- Montana Department of Natural Resources and Conservation (DNRC).

Property owners and trustees, including private parties, Bureau of Land Management (BLM), State of Montana, and various counties, were then contacted by phone or in person, to obtain verbal permission to access their property for the purpose of performing SCAT surveys or accessing the river through the property. If subsequent activities were determined to be necessary, such as oil removal or reassessments, the property owners were contacted again. In certain instances, several areas of the river could not be accessed due to private property owners not granting access. In other instances, access was delayed until claims were resolved or attorney negotiations were completed. The accessibility of certain properties changed over time as owners changed permission status. Appendix B summarizes landowner information and relates parcel identification numbers with river area designations.

Each SATR includes a Figure 1, which summarizes access information and presents segment boundaries (e.g., A01-LB, A01-RB, A01-IS), parcel boundaries, owner names, and a color for each parcel representing the access status at the time of SATR. The text of Section 1.1 in each SATR summarizes whether there were areas of no or limited access that affected SCAT and Operations teams.

1.1.3 Combination of SCAT Area Transition Reports for River Division C

The endpoint for the SCAT process was river Area C88. This endpoint was based on no actionable oil in river Areas C56 through C88. An individual SATR was generated for

each area in Areas C01 through C55, and Areas C56 through C88 were grouped into a single report.

1.2 Cultural, Historic, and Natural Resources

Oiled segments of the river were inventoried by both archaeological and Apsáalooke Tribe personnel. Any historic properties or culturally sensitive areas found were communicated to the SCAT and Operations teams, and oil removal activities were not initiated in these areas without supervision by archaeological and/or Apsáalooke Tribe personnel to ensure protection of these resources. The cultural and historic resources identified are summarized in Section 1.2 of the SATRs; however, to protect the resources in these areas, their specific locations are not presented in the SATRs.

Culturally Sensitive Vegetation (CSV), as defined by the Apsáalooke Tribe, was identified in many areas along the Yellowstone River. Field crews were instructed to be cautious so as not to disturb these vegetation types. Since CSV was so pervasive along the river, it was not mentioned in each individual SATR, although precautions were taken by personnel in the field to protect CSV.

Wildlife Branch personnel conducted inspections in each river segment to locate oiled wildlife, nesting migratory birds and bald eagles (*Haliaeetus leucocephalus*), and continued until oil removal activities were completed in each segment. Wildlife Branch personnel included EMPCo and their representatives, International Bird Rescue (IBR), Resource Advisors with the United States Fish and Wildlife Service (USFWS), and Montana Fish, Wildlife, and Parks (MT-FWP). Buffer zones were established around active nests to protect them. Migratory birds, including their nests, eggs, and chicks, are protected under the Migratory Bird Treaty Act (MBTA; 16 U.S.C. 703-712), and bald eagles are similarly protected under the MBTA with additional protection afforded under the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668c). In addition, great blue heron (*Ardea herodias*) nest locations were identified as resources at risk and afforded protection measures similar to those established for bald eagles.

Locations with a high potential for oiling wildlife were also identified and prioritized for focused wildlife monitoring and expedited treatment. Oiled wildlife was assessed to determine if it needed to be captured and cleaned. If cleaning was deemed necessary, oiled wildlife was captured and transported to the wildlife care facility to be cleaned and monitored until the animal was fit enough to be released, and then released. Potentially oiled deceased wildlife was recovered and retained until such time as they could be transferred to the custody of the USFWS. Please see the Wildlife Response Plan (most recently updated August 31, 2011) for more detail on the protocols that were used during these inspections (EMPCo 2011b).

During the spill response, IBR, USFWS, and MT-FWP periodically identified locations where oiling presented a greater than normal hazard to wildlife, such as vegetation or debris with transferable oil, product or sheen on pools, etc. As specified in the Wildlife Transition Plan (EMPCo 2011c), inspections continued in many segments following the closure of the segment by the SCAT process in order to ensure that all wildlife hazards had been identified and abated. To more clearly define the end of Wildlife Branch activities, a plan was developed for determining No Further Action (NFA) by the wildlife team (ARCADIS 2011a). As described in the plan, segments continued to be visited until:

- No actionable oil (transferable to wildlife) remained in a SCAT segment and the segment was deemed complete by SCAT,
- Seasonal constraints prevent further cleanup activity, or
- Repeated wildlife observations in a wildlife priority segment indicate no further oiling of wildlife is expected (i.e., three successive observation periods with no oiled wildlife and all actionable oil that presents a risk to wildlife has been treated).

During the initial portion of the response, sites requiring work to treat a wildlife hazard were identified as Wildlife Priority Cleanup Areas (WPCAs) and were recorded in a tracking database and passed on to Operations for priority cleanup. The documentation process for WPCAs changed during the transition from federal to state led operations. During the federal to state transition, those locations requiring additional work to abate a wildlife hazard began to be tracked using Wildlife Exception Memos (included in Appendix G of the respective SATRs), instead of the WPCA database. Part of this process was the creation of the Oiled Wildlife Hazard Assessment Form to help the field crews capture the data needed to generate Wildlife Exception Memos. The Wildlife Exception Memo process proved cumbersome for addressing areas that could be fully and quickly cleaned up by Operations crews, so the process was modified. The process was changed so that Wildlife Exception Memos were only generated for sites that could not be addressed prior to the end of operational activities and/or required additional monitoring. For WPCAs that could be addressed in a timely and complete manner the Oiled Wildlife Hazard Assessment Form was used to pass down data to Operations.

In the revised process, if actionable oil was identified, an Oiled Wildlife Hazard Assessment Form was completed and passed on to Operations, who signed off when the work was completed. The Oiled Wildlife Hazard Assessment Form was also used to provide cleanup information during pre-inspection surveys of several areas where cleanup was delayed due to access issues. The Oiled Wildlife Hazard Assessment

Forms and figures depicting the specific locations are presented in Appendix C of this report.

When personnel from the Wildlife Branch moved into Division C, they were accompanied by small operations teams and any needed cleanup was immediately addressed. As a result, no Oiled Wildlife Hazard Assessment Forms were generated. Wildlife Exception Memos were generated for three locations in Division C prior to the transition to the Oiled Wildlife Hazard Assessment Form; these Exception Memos are included in Appendix G of the respective SATRs.

Each SATR includes a Section 1.2 and a Figure 2 that summarizes oiled wildlife observations, collected animals, and WPCAs.

1.3 Environmental Sampling

Environmental samples have been collected at various locations along the Yellowstone River to identify potential impacts of crude oil from the Silvertip Pipeline Incident (CTEH 2011a).

The Center for Toxicology and Environmental Health, Inc. (CTEH), USEPA, MDEQ, and ARCADIS collected samples from the following matrices upstream and downstream of the release: air, surface water, groundwater, irrigation water, soil, and sediment. Soil refers to bank and floodplain material above the waterline at the time of sampling, while sediment refers to submerged material below the water line (ARCADIS 2011c). In addition, groundwater includes samples collected from drinking water sources including private residential and public water supply wells.

Appendix D documents the source of screening level standards used as the guide for evaluating laboratory results and producing reports. These screening levels were uploaded into SCRIBE for use as the master screening level document approved by MDEQ and USEPA.

The results from the sample collection effort have been used to characterize the chemical properties of the environmental media. Additional information regarding environmental sampling is provided in the following reports:

- Comprehensive Sampling and Analysis Plan (CTEH 2011a);
- Quality Assurance Project Plan for Comprehensive Sampling and Analysis Plan (CTEH 2011b);

- Downstream Impacted Areas Surface Water Sampling Plan (ARCADIS 2011b);
- Downstream Impacted Areas Soil and Sediment Sampling Plan (ARCADIS 2011c);
- Irrigation and Drinking Water Sampling Plan (CTEH 2011c); and
- Landowner Requested Soil Sampling Plan (CTEH 2011d).

Samples were initially collected to delineate the extent of the potential crude oil impacts on the environmental media. In certain instances, grab samples of environmental media were collected as a result of changing conditions and/or focal points. All sample results obtained were uploaded to SCRIBE, a publically available database, which is operated and maintained by USEPA (http://www.epa.gov/yellowstoneriverspill/data/index.htm). Refer to Appendix E for an outline on using the database. Samples continue to be collected from environmental media along the Yellowstone River. As additional data become available, they will be entered into the database. Therefore, the SCRIBE database provides the most current sample results from the environmental sampling program.

Sample identification numbers denoted with an asterisk in Table 1 of the SATRs indicate a sample where analytical laboratory results were not available at the time of SATR preparation. Environmental samples shown in Table 1 of the SATRs with the same coordinates are samples collected at various depth intervals at the same sampling location.

Environmental samples not included in the SATRs are samples where the collection point is not within an area boundary (i.e., a quarter mile from the river) or those samples that had not been collected at the time of SATR preparation. Environmental samples that are not included in the SATRs that were collected to meet the requirements of the above work plans or the following: Public Water Supply Sampling Plan (ARCADIS 2011d), Source Area Sediment Sampling Plan (ARCADIS 2011e), Groundwater Assessment Plan (ARCADIS 2011f), and Agricultural Land Tillage and Bioremediation Plan (post-plowing samples; ARCADIS 2011g), will be included and summarized in associated reports.

Incident-related constituents are considered those that are potentially related to crude oil based on the analytical methods identified for crude oil in MDEQ's Tier 1 Risk-Based Corrective Action Guidance for Petroleum Releases (See Table A and B) as included in the Sampling and Analysis Plan (CTEH 2011a). Non-incident-related constituents are those considered unrelated to crude oil, such as processed hydrocarbon compounds

(e.g., plasticizers, MTBE, wastewater treatment chemicals, etc.), are naturally occurring metals, or are located in an area that precludes them from being incident-related (e.g., upgradient).

A characterization of laboratory results received through September 26, 2011 is provided in the Environmental Sampling Report, prepared by CTEH for EMPCo, which can be found in Appendix F and is briefly summarized below:

- Air: Air monitoring was discontinued on August 13, 2011 with the approval of Unified Command when it was determined that the sampling results were representative of background conditions and are unrelated to the release (CTEH 2011e).

- Drinking Water Wells: All of the incident-related drinking water well sample results meet the DEQ-7 Standards (MDEQ 2010), with the exception of screening level exceedances of certain plasticizers, bromodichloromethane, chlorodibromomethane, and methylene chloride (CTEH 2011e). All incident-related samples received meet State and Federal drinking water standards for crude-oil-related compounds.

- Irrigation Wells and Ponds (Private Property): All incident-related samples received meet State and Federal water quality standards; an exceedance of total extractable hydrocarbons is under further review to confirm it is not incident-related.

- Surface Water: All incident-related samples received meet State and Federal water quality standards for crude-oil-related compounds.

- Sediment: Two MDEQ samples from visibly impacted sites exceeded State or Federal screening levels for total extractable hydrocarbons and a non-incident-related exceedance for a plasticizer.

- Soil: 18 EPA samples and 26 MDEQ samples from visibly impacted sites exceeded State or Federal screening or background levels – primarily for total extractable petroleum hydrocarbons.

Note: Summary based on available data as of September 26, 2011.

Figure 3 of each SATR presents sample locations overlaid onto an aerial photograph, showing the sample name, the entity that collected the sample, and the media collected. In some cases, where many samples were collected from the same area, an

individual label may not be visible for each sample. Each SATR contains a Table 1, Environmental Sampling Summary, which presents similar data to Figure 3, including: the sample name, date collected, the entity that collected the sample, the media, and the approximate latitude and longitude of the collection point. Table 1 lists all sample names collected from the designated area, as of the date of the report.

Each SATR also includes a summary of detected compounds for the samples listed in Table 1. This summary is attached to each report as Appendix A, and every compound that was detected above the corresponding screening level is highlighted. A list of the compounds with detections exceeding the screening level is presented in Section 1.3 of each SATR.

1.4 Initial SCAT Surveys

The SCAT has been developed over the past 30 years and has been used during hundreds of spill responses. The SCAT has been recognized as standard ASTM method (ASTM 2009). It involves deploying teams of trained observers who survey the affected shoreline area to provide an accurate spatial illustration of oiling conditions. The goal of the SCAT process is to provide uniform reproducible and objective descriptions of oiling conditions and impacted environments. Teams are calibrated within and between teams to provide data with specific terminology and descriptions. The data are then entered on a River Bank Oiling Summary form after the team members reach consensus of the existing conditions. The information gathered from these observations is then used to develop shoreline treatment recommendations and tactics for cleanup of surface shoreline conditions. Approval and concurrence in observations and cleanup techniques or lack of need for cleanup is documented by the participant's signature on the form. An example of a site-specific SCAT survey form and additional information regarding the SCAT survey process has been included in Appendix G of this report.

SCAT team members could include a representative of the USEPA, MDEQ, the United States Coast Guard (USCG), MT-FWP, City of Laurel Public Works, Apsáalooke Tribe, DNRC, BLM, and EMPCo personnel and their contractors.

Due to high water levels in the Yellowstone River following the Silvertip Pipeline Incident, many of the initial SCAT team observations were performed by boat, specifically observing the oiling conditions along the shorelines (from the river's edge to the approximate top-of-bank of the river). Later SCAT team observations were generally performed on foot across the potentially oiled overbank area (from the approximate top-of-bank inland). Observations were recorded on SCAT survey forms and accompanied by a sketch of the oiling conditions for each area or segment. In

cases where land access was not granted by landowners, an initial SCAT observation was limited to boat surveys along the shoreline. Surveys by boat are considered reconnaissance information for initial guidance to Operations.

Based on the SCAT observations, each segment was divided into different oiling zones (Zone A, Zone B, Zone C, etc.) based on the oiling conditions observed. For example, if no oiling was observed within a certain zone, that zone would be designated as no oil observed (NOO). The different oiling zones are indicated on a sketch attached to the form. For each oiling zone identified within an area, the teams would recommend treatments.

If the initial oiling conditions within a segment were identified as NOO, then no cleanup recommendations were presented and the SCAT process for that segment was complete.

Three main classes of information are collected by SCAT Teams to quantify severity of oiling within an oiling zone. These are the width of the oiled band, percentage of the substrate covered with oil, and the thickness of oil on the substrate. Commonly, oil floating onto a river bank forms a band analogous to a bath-tub ring on the river bank vegetation and sediment. The width of the band is measured during the SCAT survey and described using the adjectives shown in Table 1. Coverage of the substrate affected by oil can range from complete (100%) to less than 1% and is described using the adjectives shown in Table 2.

Thickness of oiling and oil characteristics on the substrate are also determined during the SCAT survey and described using the adjectives shown in Tables 3 and 4. Thicker oiling is more severe than thinner oiling, and oiling thickness is used to modify the initial severity of oiling. Oiling severity was used to help prioritize response actions with more severe oiling being addressed before less severe oiling.

The following tables summarize the surface oiling conditions included on the SCAT survey forms.

Table 1. Oil Band Width

SCAT Form Description	*Average Width of Oiled Band/Area Within Shoreline Segment*
Wide	>6 m
Medium	>3 m to <6 m
Narrow	>0.5 m to <3 m
Very Narrow	≤0.5 m

Note: m = meter

Table 2. Surface Oil Distribution

SCAT Form Code	*Description*	*Percent of Surface Within Band/Area Covered With Oil*
TR	Trace	<1%
SP	Sporadic	1 – 10%
PT	Patchy	11 – 50%
BR	Broken	51 – 90%
CN	Continuous	91 – 100%

Table 3. Oil Area Thickness

SCAT Form Code	*Description*	*Average/Dominant Oil Thickness Within Band/Area*
TO	Pooled or Thick Oil	fresh oil or mousse accumulations >1.0 cm thick
CV	Cover	≤1.0 cm and >0.1 cm thick
CT	Coat	≤0.1 cm and >0.01 cm thick coating
ST	Stain	≤0.01 cm
FL	Film	transparent or translucent film or sheen

Note: cm = centimeter

Table 4. Oil Characteristics

SCAT Form Code	*Description*	*Oil Characteristics*
FR	Fresh	unweathered, low viscosity oil
MS	Mousse	emulsified oil (oil and water mixture) existing as patches or accumulations, or within interstitial spaces
TB	Tar Balls	discrete balls on sediment or adhered to rock or coarse sediment; diameters <0.1 m
PT	Patties	tar or mousse; discrete patties on sediment or adhered to rock or coarse-sediment shoreline; diameters ≥0.1 m
TC	Tar	weathered coat or cover of tarry, almost solid consistency
SR	Surface Oil Residue	consists of non-cohesive, oiled, surface sediments, either as continuous patches or in coarse-sediment interstices
AP	Asphalt Pavement	cohesive mixture of oil and sediments
NO	No Oil	no oil observed, also NOO
DB	Debris	can consist of logs, vegetation, rubbish or general debris; includes spill response items (sorbents, boom, snares)

From these surface oiling widths, distributions, thicknesses, and characteristics, SCAT teams determined whether the oiling conditions in a zone were heavy, moderate, light, very light, or NOO. Appendix G of this report explains the process of classifying oiling conditions using information from Tables 1 through 4 above.

In each SATR, the initial SCAT survey forms and sketches are included as Appendix B. The number of SCAT forms produced depends on the river area conditions, size of the area being assessed, logistical issues, and access issues. A general summary of the initial SCAT surveys is included in each SATR as Section 1.4.

A summary of the maximum oiling conditions documented on the SCAT survey forms is illustrated in each SATR as Figure 4. The figure displays the area and segment boundaries and colored polygons representing the maximum oiling conditions observed during the initial, or in some cases, numerous initial SCAT surveys conducted in a given segment. Each polygon represents an oiling zone of homogenous conditions documented with a unique number on the SCAT field forms (annotated in the left-hand margin) and sketches. Boat surveys were considered reconnaissance and are included in the database as a line. Therefore, colors corresponding to the boat surveys

will not be visible on Figures 4 and 5 in the SATRs, although the corresponding oiling zone number will be.

1.4.1 Modifications to SCAT Surveys

As the water level in the Yellowstone River decreased from flood stage, IS segments began to appear within the river and a larger portion of the riverbanks could be observed. Prior to the emergence of these additional areas, SCAT observations had been completed in some of these segments.

After four days of SCAT teams observing these emerging areas, it became clear that land and vegetation that was submerged during and immediately after the release was not impacted by oiling. While land and vegetation below the high water mark was not impacted, some debris piles appear to have captured oil while submerged (e.g., A03-IS).

1.4.2 Monitored Natural Attenuation

In certain instances, SCAT teams determined (from their initial observations of oiling conditions) that oil removal activities would cause more environmental harm than benefit. In these areas, No Further Treatment (NFT) was recommended by SCAT teams. NFT was also recommended in some cases based on landowner instructions or ecological, archaeological, historical, cultural, and/or safety considerations. Typically, NFT areas were characterized by oil staining equating to very light to light oiling conditions and no transferable oil. Weathering and natural attenuation of residual oil is expected to reduce the amount of oil in the environmental media within these areas. Monitoring and sampling of some of these areas will be conducted to confirm that natural attenuation of the oil is meeting the remediation objectives, and results will be included in future reports (ARCADIS 2011h).

1.5 Compiled Treatment Recommendations

Once the initial SCAT observations were completed for an area, the SCAT teams prepared Compiled Treatment Recommendations (CTRs) for that area, which are referenced by number in Section 1.5 of each SATR. Depending on the location, the CTR may encompass more than one area or segment (e.g., Areas A07-RB, A08-RB, and A08-IS) of the river. Each CTR specified the oiling zones requiring treatment and provided the Approved Treatment Methods (ATMs) to be used to address oiling. Sixty-four CTRs were created to address the various oiling conditions. CTRs No. 49 and 56, created for nine segments, were recalled and the nine segments were actually treated according to CTRs No. 60, 61, and 62.

Table 5 (below) describes the ATMs that were identified by the Technical Advisory Group and approved by the Unified Command to be employed in treating various oiling conditions.

Table 5. Approved Treatment Methods

ATM No.	*Description of Method*
1	Cutting of Vegetated and Shrub/Scrub Shorelines, Floodplains, and Riverbanks (non-high use public access areas)
2	Dead (Unattached) Oiled Vegetation and Small Oiled Debris Removal
3	Large Woody Debris/Other Hard Surfaces
4	Soil/Sediment Removal
5	Sorbent Use Guidelines
6	Heavy Equipment Oiled Debris Removal
7	Natural Attenuation
8	Refer to Technical Advisory Group
9	Treatment with Dust Fixative
10	Light Mechanical Equipment Use in the Riparian Zone

Further detail on the ATMs is included in Appendix G of this report.

A flow chart of the SCAT process is included as Appendix H of this report, which describes what happens to an area after treatment recommendations are made, and cleanup operations are necessary.

1.5.1 Claims and CTR Addendums

In some instances, private landowners requested changes to the CTRs as part of the claims process, resulting in more or less treatment than originally recommended by SCAT teams. In these instances, an addendum to the CTR was published and subsequent SCAT surveys would evaluate whether the final CTRs had been met. If applicable these addendums are included as an appendix to the SATRs.

1.6 Oil Removal Activities

In accordance with the ATMs specified in the CTRs, Operations teams completed oil removal activities within operational areas. Operational areas consisted of single SCAT segments or many segments combined for logistical reasons. Oiled vegetation and debris removed from the oiling zones were placed into plastic 55-gallon trash bags and labeled according to operational area, then transported to an approved off-site disposal

facility. In addition, the sorbent materials used to wipe or scrape oil from solid surfaces such as trees and logs, along with oiled personal protective equipment (PPE) were also placed into plastic 55-gallon trash bags for proper off-site disposal. The Waste Disposal Plan for Silvertip Pipeline Incident (EMPCo 2011d) describes the collection, handling, and disposal of waste in more detail. Super Sack containers (woven polypropylene flexible intermediate bulk container) were also used during the removal activities to containerize the oiled vegetation and debris.

As described in Section 1.4.2 above, response measures that would cause intrusive disturbances of the riverbanks and floodplain were only implemented when the potential adverse effects from the oil posed a greater risk than leaving small amounts of oil that would degrade naturally over time.

The following is a general list of the equipment that was used in oil removal activities:

- Bobcats
- Wood Chippers
- Mini-Excavators
- Utility Terrain Vehicles (UTVs)
- UTV Trailers
- Boats
- Hand Tools
- Helicopters/Airplanes
- Weed Whackers
- Brush Cutters
- Chain Saws

If the initial SCAT survey did not observe any oiling in a zone, the SCAT survey form will state NOO. NOO areas were not subject to operations, including small operations teams as described in Section 1.6.2. If the initial SCAT team observed oiling in a zone and it was cleaned up by a small operations team and resurveyed on the same day, it will be noted on the form that oil was observed and remediated. Generally NFT was recommended for segments addressed by small operations teams.

Section 1.6 of each SATR refers to Appendix I of this report, which documents the oil removal activities conducted in Divisions A, B, and C by operational area and/or by segment. Data presented include:

- Date Range/Days Worked
- People Working per Day (Average)

- Equipment
- Oily Debris (bags)
- PPE (bags)
- Plastic (bags)
- Trash (bags)
- Super Sacks (1 cubic yard)
- Wood Chips (bags)
- Contaminated Wood (bags)

1.6.1 Modifications to Oil Removal Activities

During initial oil removal activities, plastic 55-gallon trash bags and Super Sack containers of oiled vegetation, debris, sorbents, and PPE were not labeled as to which particular segment or area the bags were collected from. Additionally, acreage and personnel data were not collected in a consistent manner until July 24, 2011, when mobile mapping devices were first employed to document oil removal activities. Data were collected by operational areas, such as Tower Island (A12-LB, A13-RB, A14-RB, A15-RB, and A16-RB) and therefore are not available by individual areas. In addition, if no Operations teams were working in a particular segment, there is no bag count or the count only includes PPE.

1.6.2 Small Operations Teams

In many cases the Pre-Inspection Survey Transmittal (PIST) teams indicated that efficiencies would result from inclusion of small operations teams and transmitted this information on the PIST forms. Therefore, small operations teams then accompanied the SCAT teams to segments where a survey was to be performed. If SCAT teams identified small areas within the segment that required oil removal activities during the survey, the small operations teams performed the required cleanup activities directed by the SCAT teams. The SCAT forms would then reflect that oil removal activities had been completed for that segment.

If an area within a segment was identified as requiring additional oil removal activities, but the area was too large to be remediated by the small operations teams, then a full Operations team was mobilized to the segment to perform the additional oil removal activities.

1.6.3 Completion of Oil Removal Activities

Cleanup actions specified in the CTRs were completed by September 9, 2011 for all heavy and moderately oiled zones with the exception of land with access issues. The CTRs for the remaining impacted zones without property access issues were completed by September 16, 2011. Access issues were resolved and remaining cleanup efforts were completed by September 28, 2011. After this date, additional measures were taken beyond the CTRs to provide extra assurance that Wildlife Branch concerns were addressed. These efforts were completed by October 14, 2011, excluding the debris pile at A28-IS. The debris pile in this segment was burned on November 8, 2011.

1.7 Pre-Inspection Survey Transmittal

The pre-inspection survey was conducted following completion of the oil removal activities and prior to a final SCAT survey to increase the likelihood of the segment passing final SCAT survey and to confirm that the oil removal objectives had been achieved.

The pre-inspection survey was performed by small teams of SCAT liaisons who evaluated the segment against the corresponding CTRs, and generated a PIST. The PIST either: (a) recommended that the segment or area was ready for a full SCAT team survey; or (b) recommended that further oil removal activities be conducted to meet the cleanup objectives. Based on the PIST recommendations, either a SCAT team would be mobilized to the segment to perform a final SCAT survey or the Operations team would be mobilized back into the segment to perform additional oil removal activities. Following completion of additional oil removal activities, the segment would undergo the final SCAT survey.

If a PIST was conducted for a segment, it is included in the appropriate SATR as Appendix C and summarized in Section 1.7.

1.8 Post-Inspection Survey Transmittal

A post-survey inspection transmittal (POST) was used as part of the SCAT process to address small zones within a segment identified by the SCAT team that did not meet cleanup criteria. Therefore, a POST was not conducted for every segment or area. A SCAT team would pass most of the segment, except for small zones that still needed remediation. In these instances an Operations team completed the additional oil removal activities as identified on the POST. Then a SCAT liaison team, including a state representative, confirmed the completion of the work in the zone and that it met

the cleanup endpoints. This is transmitted to the record by completion of the POST form, with signatures on the bottom portion of the form. In some cases the signatures on the POST serve as the final approval that the segment has passed the SCAT process.

This improved efficiency because a full SCAT team would not need to resurvey the entire segment in order to confirm that the cleanup objectives had been achieved in the segment.

If a POST was conducted for a segment, it is included in the appropriate SATR as Appendix D and summarized in Section 1.8.

1.9 Final SCAT Surveys

SCAT teams performed final surveys in those segments where Operations teams had completed oil removal activities to verify the achievement of cleanup objectives. The same form that was used during the initial SCAT surveys was used during the final SCAT surveys to evaluate the oiling conditions within the area. A sketch of the oiling zones within the area was also generated and attached to the forms. Based on the observed oiling conditions within the segment, the SCAT teams indicated that either: a) additional oil removal activities were required to meet the cleanup objectives of the CTRs; or b) NFT was required in the segment provided that no oil was observed or more harm than good would occur if treatment continued.

If the SCAT teams recommended that additional oil removal activities were required, an Operations team would be mobilized to the segment to complete oil removal activities specified in the CTR that for that particular segment. Subsequently, a SCAT team performed a final survey to verify that the cleanup objectives were achieved.

The final SCAT survey forms and sketches are included in each SATR as Appendix E and summarized in Section 1.9. Additionally, oiling zone observations from the final SCAT survey are presented in the SATRs as Figure 5.

1.10 SCAT Area Conclusions

SCAT Area Conclusions, Section 1.10 of the SATRs, describes oil removal activities and any follow-up activities that may be required. A SCAT Segment Sign-Off Form was completed for a segment, if the segment passed the SCAT process by meeting the necessary cleanup objectives. Representatives from the SCAT team, MDEQ, and USEPA signed a SCAT Segment Sign-Off Form for segments that passed the SCAT process. Once a SCAT Segment Sign-Off Form was completed for the necessary

segments within an area, a SATR was prepared for the area. The SATR was then reviewed by Unified Command and Transition Sign-Off Forms, included in each SATR in Section 2, were signed by Unified Command.

SCAT Segment Sign-Off Forms created in the processes described above are included in Appendix F of the SATRs; there are usually separate forms for the LB, RB, and/or IS segments depending on oiling conditions within each segment and how the SCAT survey team was able to access the area.

For segments that were categorized as NOO or no active treatment was recommended on the initial SCAT survey, no SCAT Segment Sign-Off Form was produced, since no oil removal activities were necessary.

Section 1.10 of the SATR also describes any long-term monitoring requirements or additional cleanup activities that were identified through the processes described in the previous sections of the report. For the segments that conditionally passed a SCAT survey, there may be further long-term monitoring requirements, which may consist of the following:

- WPCAs requiring continued monitoring due to persistent sheen or oiling that could not be safely removed
- Further response activities to reduce wildlife exposure
- Further response activities to release, contain, and recover additional oil emanating from the shoreline and causing a visible sheen (i.e., flushing of riprap with water)

These long-term monitoring requirements, if applicable, are identified in Section 1.10 of the SATR, as well as in the Exception Memos included as Appendix G to the SATR, if necessary.

Below is a list of the segments identified in Section 1.10 and Appendix G of the SATRs that require additional follow-up activities:

- A02-RB: To mitigate the persistent sheen found in the 'turtle pond,' water and sediment were removed from the pond. The turtle pond was subsequently checked after a rain event and no evidence of sheen was noted on the water. The pond will be checked again after a significant rain event to determine if any sheen exists.

- A07-RB and A08-RB: Log depression was flushed and sheen was eliminated. MDEQ signed an Exception Memo documenting completion of work with the condition that the site be transitioned into long-term monitoring and maintenance. Site will be inspected when water level rises to ensure "no sheen" status continues. If a sheen is found, booms and pads will be placed as appropriate.

- A28-IS: Emergent island with oiled debris was burned by the DNRC on November 8, 2011. The need for additional treatment is being evaluated.

2. References

ARCADIS. 2011a. Determining No Further Action on a Segment, Wildlife Concerns. Silvertip Pipeline Incident, Laurel, Montana. ARCADIS G&M of North Carolina, Inc. August 8.

ARCADIS. 2011b. Downstream Impacted Areas Surface Water Sampling Plan. Silvertip Pipeline Incident, Laurel, Montana. ARCADIS G&M of North Carolina, Inc. July 22.

ARCADIS. 2011c. Downstream Impacted Areas Soil and Sediment Sampling Plan. Silvertip Pipeline Incident, Laurel, Montana. ARCADIS G&M of North Carolina, Inc. August 8.

ARCADIS. 2011d. Public Water Supply Sampling Work Plan. Silvertip Pipeline Incident, Laurel, Montana. ARCADIS G&M of North Carolina, Inc. September 10.

ARCADIS. 2011e. Source Area Sediment Plan. Silvertip Pipeline Incident, Laurel, Montana. ARCADIS G&M of North Carolina, Inc. August 30.

ARCADIS. 2011f. Groundwater Assessment Plan. Silvertip Pipeline Incident, Laurel, Montana. ARCADIS G&M of North Carolina, Inc. September 30.

ARCADIS. 2011g. Silvertip Pipeline Incident Agricultural Land Tillage and Bioremediation Plan for Properties Identified through ExxonMobil Claims Process, Environmental Planning Section. Silvertip Pipeline Incident, Laurel, Montana. ARCADIS G&M of North Carolina, Inc. July 31.

ARCADIS. 2011h. Natural Attenuation Monitoring Work Plan. Silvertip Pipeline Incident, Laurel, Montana. ARCADIS G&M of North Carolina, Inc. October 12.

ASTM. 2009. ASTM F1686 - Standard Guide for surveys to document and assess oiling conditions on shorelines. ASTM F1687 - Guide for terminology and indices for describing the oiling conditions on shorelines. ASTM International.

CTEH. 2011a. Comprehensive Sampling and Analysis Plan, Silvertip Pipeline Incident, Laurel, Montana. Center for Toxicology and Environmental Health, L.L.C. August 5.

CTEH. 2011b. Quality Assurance Project Plan For Comprehensive Sampling and Analysis Plan, Silvertip Pipeline Incident, Laurel, Montana. Center for Toxicology and Environmental Health, L.L.C. August 5.

CTEH 2011c. Irrigation and Drinking Water Sampling Plan, Silvertip Oil Spill, Laurel, Montana. Center for Toxicology and Environmental Health, L.L.C. July 7.

CTEH. 2011d. Landowner Requested Soil Sampling Plan, Silvertip Oil Spill, Laurel, Montana. Center for Toxicology and Environmental Health, L.L.C. July 22.

CTEH. 2011e. Personal communication between representatives of ARCADIS and Center for Toxicology and Environmental Health, L.L.C. August.

EMPCo. 2011a. Incident Response Plan for Silvertip Pipeline Incident. ExxonMobil Pipeline Company.

EMPCo. 2011b. Wildlife Response Plan for Silvertip Pipeline Incident. ExxonMobil Pipeline Company.

EMPCo. 2011c. Wildlife Transition Plan for Silvertip Pipeline Incident. ExxonMobil Pipeline Company.

EMPCo. 2011d. Waste Disposal Plan for Silvertip Pipeline Incident. ExxonMobil Pipeline Company.

MDEQ. 2010. Circular DEQ-7. Montana Numeric Water Quality Standards. Montana Department of Environmental Quality. Planning, Prevention, and Assistance Division – Water Quality Standards Section. August. Available online at: http://deq.mt.gov/wqinfo/standards/default.mcpx

Appendix A

Administrative Order

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
ADMINISTRATIVE ORDER

2011 JUL -7 PM 12: 11
FILED
EPA REGION VIII
HEARING CLERK

IN THE MATTER OF ExxonMobil Silvertip Pipeline Spill

Docket Number: **CWA-08-2011-0020**

Proceedings under Section 311 (c) of the Clean Water Act (CWA), 33 U.S.C. § 1321 (c), as amended by the Oil Pollution Act of 1990 (OPA), 33 U.S.C. § 2701 et seq.

I. JURISDICTION AND GENERAL PROVISIONS

1. The United States Environmental Protection Agency (USEPA) is issuing this Order to: ExxonMobil Pipeline Company, a New Jersey corporation authorized to do business in the State of Montana (Respondent). This Order is issued pursuant to the authority vested in the President of the United States by Section 311(c) of the Federal Water Pollution Control Act, 33 U.S.C. § 1321(c), as amended, commonly referred to as the Clean Water Act (CWA). This authority has been delegated to the Administrator of the USEPA by Executive Order No. 12777, 58 *Fed. Reg.* 54,757 (Oct. 22, 1991), and delegated to the USEPA Regional Administrators by USEPA Delegation No. 2-89 and redelegated to On-Scene Coordinators by USEPA Region 8 Delegation No. 2-89.

2. This Order requires performance of removal actions in connection with a facility located at or near the Silvertip Pipeline System Mile Posts 20.7 and 21.0 in the vicinity of the City of Laurel, Montana. This Order requires the Respondent to immediately conduct removal of a discharge or to mitigate or prevent a substantial threat of a discharge of oil.

II. PARTIES BOUND

3. This Order applies to Respondent. The Order further applies to persons or entities who succeed to an interest in Respondent. Any change in ownership or corporate status of Respondent, including but not limited to a transfer of assets or real or personal property will not alter the responsibilities under the Order.

4. Respondent must ensure that its contractors, subcontractors, and agents comply with this Order. Respondent will be liable for any violation of the Order by its employees, agents, contractors, or subcontractors.

III. DEFINITIONS

5. "Oil" means oil of any kind or in any form, including, but not limited to, petroleum, fuel oil, sludge, oil refuse, and oil mixed with wastes other than dredged spoil (Section 311(a)(1) of the CWA, 33U.S.C. §1321(a)(1)).

6. "Hazardous substance" means any substance designated pursuant to subsection (b)(2) of this section (Section 311(a)(14) of the CWA, 33 U.S.C. § 1321(a)(14)).

7. "Navigable water of the United States" means the waters of the United States, including the territorial seas (Section 502(7) of the CWA, 33 U.S.C. § 1362(7)).

8. "Facility" means any facility of any kind located in, on, or under, any of the navigable waters of the United States other than submerged land (Section 311(a)(10) of the CWA, 33U.S.C.§1321(a)(10)).

9. "Discharge" means any spilling, leaking, pumping, pouring, emitting, emptying or dumping, but excludes (A) discharges in compliance with a permit under section 402 of CWA, (B)discharges resulting from circumstances identified and reviewed and made a part of the public record with respect to a permit issued or modified under section 402 of CWA, and subject to a condition in such permit, and (C) continuous or anticipated intermittent discharges from a point source, identified in a permit or permit application under section 402 of CWA which are caused by events occurring within the scope of relevant operating or treatment systems (Section 311(a)(2) of the CWA, 33 U.S.C. § 1321(a)(2)).

10. "Order" shall mean this Order.

11. "National Contingency Plan" or "NCP" shall mean National Oil and Hazardous Substances Pollution Contingency Plan, codified at 40 C.F.R., Part 300, including, but not limited to, any amendments thereto.

IV. FINDINGS OF FACT AND VIOLATIONS

10. This Order is being issued under §311(c) of the Clean Water Act, 33 U.S.C. §1321 for a discharge or a substantial threat of discharge of oil and/or a hazardous substance into waters of the United States.

11. On or about July 1, 2011, at approximately 10:45 P.M., a discharge or a substantial threat of a discharge of crude oil, which is a hazardous substance, reached the Yellowstone River which is a navigable water of the United States. This discharge from the Silvertip Pipeline System at or near Mile Posts 20.7 and 21.0 in the vicinity of the City of Laurel, Montana, "the facility," constitutes a substantial threat to the public health or welfare.

12. Respondent, ExxonMobil Pipeline Company, is the owner/operator of the facility.

V. WORK TO BE PERFORMED (Initial all that apply)

13. **RESPONDENT IS HEREBY ORDERED** to complete the tasks described below within the dates specified and in accordance with the National Contingency Plan, 40 CFR Part 300, and any appropriate area contingency plan, and any applicable §311(j) facility response plan.

14. IMMEDIATE STABILIZATION AND MITIGATION ACTIONS

a. Respondent must identify a contact person responsible for the removal within 1 business day of issuance of this Order.

b. Notify USEPA of the date and time that the Discharge of oil into the Yellowstone River

started and stopped by **July 8, 2011**;

c. Notify USEPA of the amount of oil Discharged into the Yellowstone River and provide all calculations or other information that supports this assessment by **July 8, 2011**;

d. Remediate the oil and contaminated soils in and around the immediate vicinity of the release by **August 18, 2011,** and continuing thereafter as necessary and as directed by USEPA;

e. Deploy appropriate oil recovery and containment devices and equipment, *e.g.* skimmers, vacuum trucks, absorbent/containment booms by **July 8, 2011,** and continuing thereafter as necessary and as directed by USEPA;

f. Perform air monitoring and sampling as directed by USEPA and public health officials by **July 8, 2011,** and continuing thereafter as necessary and as directed by USEPA;

g. Perform water, soil and sediment sampling of impacted areas as directed by USEPA by **July 12, 2011,** and continuing thereafter as necessary and as directed by USEPA;

h. Provide a secure electronic data-sharing website for use by the State of Montana, USEPA, USF&WS, BLM, DOI, and all impacted cities and county officials by **July 11, 2011**.

i. Remediate all impacted areas (including shoreline) along Yellowstone River by **September 9, 2011,** and continuing thereafter as necessary and as directed by USEPA;

j. Provide a copy of the Pipeline Repair Plan approved by DOT PHMSA, as soon as it becomes available and before the line is put back into service;

k. Dispose of all wastes at USEPA approved disposal facilities; and

l. Submit a final report to USEPA detailing all work completed including monitoring and analytical data, disposal records, and all documentation related to the response by **November 10, 2011**.

VI. REMOVAL ACTION

15. Within two (2) days from the date this Order is signed by EPA, Respondent shall develop and submit to EPA for approval, a Work Plan and schedule for completing the tasks described below. Respondent shall begin work within one (1) day of EPA approval of the Work Plan. The Work Plan shall include the following tasks:

a. Health and Safety Plan
b. Sampling and Analysis Plan
c. QAPP
d. Oil recovery and containment plan
e. Source release area remediation plan
f. Remediation Plan for downstream impacted areas
g. Waste treatment, transportation, and disposal plan

Within three (3) days from the date this Order is signed by EPA, Respondent shall

develop and submit to EPA for approval, a Sampling Plan and schedule for sampling. Respondent(s) shall implement the Sampling Plan within four (4) days of EPA approval.

16. Respondent must submit the Work Plan to:

Steven Merritt, On-Scene Coordinator
USEPA Region 8, 8EPR-SA
1595 Wynkoop St.
Denver, CO 80202-1129

VII. REPORTING REQUIREMENTS

17. Respondent must submit a written progress report to USEPA concerning actions undertaken pursuant to this Order every 7 calendar days after the effective date of this Order, unless otherwise directed in writing by USEPA personnel. These reports must describe all significant developments during the preceding period, including work performed and any problems encountered, analytical data received during the reporting period, and developments anticipated during the next reporting period, including a schedule of work to be performed, anticipated problems, and planned resolutions of past or anticipated problems. Reports shall be due to EPA by 12:00 P.M., noon on Friday

18. Respondent may assert a business confidentiality claim pursuant to 40 CFR § 2.203(b) with respect to part or all of any information submitted to USEPA pursuant to this Order, provided such claim is allowed by Section 308(b)(2) of CWA, 33 U.S.C. § 1318(b)(2). USEPA shall only disclose information covered by a business confidentiality claim to the extent permitted by, and by means of the procedures set forth at 40 CFR Part 2, Subpart B. If no such claim accompanies the information when it is received by USEPA, USEPA may make it available to the public without further notice to Respondent. Respondent must not assert confidentiality claims with respect to any data or documents related to site conditions, sampling or monitoring.

VIII. ACCESS TO PROPERTY AND INFORMATION

19. Respondent must provide or obtain access to the facility, to off-site areas where access is necessary to implement this Order, and to all documents related to conditions at the facility and work conducted under the Order. Respondent must provide this access to USEPA and the United States Coast Guard and their contractors and representatives.

IX. RESERVATION OF RIGHTS AND PENALTIES

20. This Order does not preclude EPA from taking any actions authorized by CWA, the National Contingency Plan, or any other law. EPA reserves the right to **direct all activities** and to comment on and direct changes to deliverables, off-site shipping and disposal, and all other matters.

21. Respondent shall notify EPA of any response actions it takes as to this discharge that are in addition to those described in this Order.

22. Violation of any term of this ORDER may subject Respondent to an administrative civil penalty of up to $37,500 per day of violation or an amount up to three times the costs incurred by the Oil Spill Liability Trust Fund as a result of such failure. (Section 311(b)(7)(B) of the

Clean Water Act, 33 U.S.C. § 1321(b)(7)(B) as amended by the Oil Pollution Act of 1990, 33 U.S.C. §§ 2701 et seq.)

V. EFFECTIVE DATE

23. The effective date of this ORDER shall be the date of the receipt of this Order by the Respondents.

On-Scene Coordinator STEVEN B. MELLITT, OSC — Date 7/6/2011

Received by Representing Respondent GODFREY A CRAFT — Date 7-6-2011

CERTIFICATE OF SERVICE

The undersigned certifies that the original of the attached **ADMINISTRATIVE ORDER** in the matter of **EXXONMOBIL SILVERTIP PIPELINE SPILL; DOCKET NO.: CWA-08-2011-0020.** The documents were filed with the Regional Hearing Clerk on July 7, 2011.

Further, the undersigned certifies that a true and correct copy of the documents were delivered to, Brenda L. Morris, Enforcement Attorney, U. S. EPA – Region 8, 1595 Wynkoop Street, Denver, CO 80202-1129. True and correct copies of the aforementioned documents were placed in the United States mail certified/return receipt requested on July 7, 2011, to:

Mr. Gary Pruessing, President
ExxonMobil Pipeline Company
800 Bell Street
Room 741-D
Houston, TX 77002-7497

July 7, 2011

Tina Artemis
Paralegal/Regional Hearing Clerk

Printed on Recycled Paper

Appendix B

Land Owner Information

Look-up by Owner Name

Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03103326301040000	C01	AA LAND LLC	61 CERISE RD
03082124206050000	A12	AAKER, STEVEN F	3223 RIVER RD 59044
03082124206050000	A13	AAKER, STEVEN F	3223 RIVER RD 59044
03082124113010000	A13	ACHTEN, JEFFREY J	
03082124113010000	A14	ACHTEN, JEFFREY J	
03082204318010000	A28	ALBRECHT, ELMER & EDNA	5435 RIVER RD 59044
03103324202609066	C06	ALDEN, KAREN	25 LAPIN ST 59105
03082203201010000	B01	ALLAN, CHERE' S	8533 DUCK CREEK RD 59101
03082203201010000	B02	ALLAN, CHERE' S	8533 DUCK CREEK RD 59101
03082113105010000	A18	ALLEE, RUSTY M & JULIE L	101 N RIVER RD 59044
03082113105010000	A19	ALLEE, RUSTY M & JULIE L	101 N RIVER RD 59044
03123707201010000	C59	ALTHOFF, RICHARD C	
03123707201010000	C60	ALTHOFF, RICHARD C	
03082124401010000	A13	ALTMAN, THOMAS L	2133 SPRING CREEK RD 59044
03082124305010000	A11	ALTMAN, THOMAS L & EVONNE	3108 RIVER RD 59044
03082124305010000	A12	ALTMAN, THOMAS L & EVONNE	3108 RIVER RD 59044
03082124305010000	A13	ALTMAN, THOMAS L & EVONNE	3108 RIVER RD 59044
03113412414110000	C27	ANDERSON, CLINT & JANETTE	7504 BUCKSKIN DR 59079
03123524304010000	C49	ANDERSON, TODD K	2461 W M RD 59088
03123524304010000	C50	ANDERSON, TODD K	2461 W M RD 59088
03103323401080000	C04	ANGUIANO, ALVIN & CARLA	1334 YELLOWSTONE RIVER R 59105
03113413101020000	C28	APPLE CREEK EXOTICS RANCH INC	
03113424110010000	C28	APPLE CREEK EXOTICS RANCH INC	
03113424111030000	C28	APPLE CREEK EXOTICS RANCH INC	
03082204215010000	A28	ARCE, CARLOS R & KAREN C	9314 RUDIO RD 59101
03113425210070000	C23	ASAY, BILLIE C & DENIS B TRUST	95 PERITSE AVE 59037
03113425213050000	C23	ASAY, BILLIE C TRUSTEE	
03103326205020000	C02	BAILEY, JONATHAN	455 BENCH BLVD 59105
03103324206070000	C06	BAISCH, DAVID R & KATHLEEN A	1505 RIVERVIEW CIR 59105
03103324206070000	C07	BAISCH, DAVID R & KATHLEEN A	1505 RIVERVIEW CIR 59105
03123426109010000	C40	BALZER, TERRAL G & TAMARA L	
03123426109010000	C41	BALZER, TERRAL G & TAMARA L	
03123521104010000	C46	BANDEROB, ARVIN H &	N 19TH RD 59088
03123521401010000	C46	BANDEROB, ARVIN H &	
03123521411010000	C46	BANDEROB, ARVIN H &	2855 N 19TH RD 59088
03113414103010000	C26	BARKHUFF, RANDY	6207 OSNESS RD 59079
03092711412230000	B39	BARNES, DOUGLAS A	3003 GARDEN AVE 59101
03113412403100000	C27	BARTA, RICHARD C	7420 SPEAR DR 59079
03113414415060000	C26	BARTA, RICK	6817 FREY RD
03133218305010000	C76	BASSO, GARY L	
03103324202609004	C06	BAUER, DELVIN E & ARLENE A	8 CHERRY CREEK LOOP 59105
03092635401010000	B08	BELL, RANDALL & CARLA F	
03092635401010000	B09	BELL, RANDALL & CARLA F	
03092635104010000	B10	BELL, RANDALL & CARLA F	
03092635401010000	B10	BELL, RANDALL & CARLA F	
03092635104010000	B11	BELL, RANDALL & CARLA F	
03092635401010000	B11	BELL, RANDALL & CARLA F	
03103327402010000	C01	BENDER, DONALD WILLIAM	
03082122115010000	A03	BERG, JOHN W &	1434 MC MULLEN LN 59044
03133123101010000	C74	BILES, EVERETT S & TODD E	
03133123101010000	C75	BILES, EVERETT S & TODD E	
03092711412070000	B37	BILLINGS CAMPGROUND	308 GARDEN AVE
03092711412070000	B38	BILLINGS CAMPGROUND	308 GARDEN AVE
03092711412070000	B39	BILLINGS CAMPGROUND	308 GARDEN AVE
03092716409010000	B31	BILLINGS MOTORCYCLE CLUB INC	
03092715301010000	B32	BILLINGS MOTORCYCLE CLUB INC	3630 OLD BLUE CREEK RD 59101
03092716409010000	B32	BILLINGS MOTORCYCLE CLUB INC	
03092715301010000	B34	BILLINGS MOTORCYCLE CLUB INC	3630 OLD BLUE CREEK RD 59101

Look-up by Owner Name

Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03092714215010000	B35	BILLINGS MOTORCYCLE CLUB INC	
03092715101010000	B35	BILLINGS MOTORCYCLE CLUB INC	
03092715301010000	B35	BILLINGS MOTORCYCLE CLUB INC	3630 OLD BLUE CREEK RD 59101
03092715401010000	B35	BILLINGS MOTORCYCLE CLUB INC	3630 OLD BLUE CREEK RD 59101
03092714201010000	B36	BILLINGS MOTORCYCLE CLUB INC	
03092714215010000	B36	BILLINGS MOTORCYCLE CLUB INC	
03103324202609027	C06	BLACK, DIANE L	3 TARTARIAN ST 59105
03092730101010000	B17	BLAIN, ALDONNA &	
03092719401010000	B18	BLAIN, ALDONNA &	
03092730101010000	B18	BLAIN, ALDONNA &	
03092719401010000	B19	BLAIN, ALDONNA &	
03092719401010000	B20	BLAIN, ALDONNA &	
03092719401010000	B21	BLAIN, ALDONNA &	
03092720308010000	B21	BLAIN, ALDONNA F	
03092720308010000	B24	BLAIN, ALDONNA F	
03092730301010000	B17	BLAIN, ALMON R & GERHART S 3/5	
03092625406010000	B46	BLAIN, ALMON R & GERHART S 3/5	
03092625406010000	B47	BLAIN, ALMON R & GERHART S 3/5	
03092730301010000	B47	BLAIN, ALMON R & GERHART S 3/5	
03092719103200000	B19	BLAIN, GERHART S	1930 MULLOWNEY LN 59101
03092719103200000	B20	BLAIN, GERHART S	1930 MULLOWNEY LN 59101
03092719103200000	B22	BLAIN, GERHART S	1930 MULLOWNEY LN 59101
03113414105200000	C26	BLAKELEY, JAMES R	6815 JOSHUA TREE LN 59079
03123623440010 01L	C56	BNSF RAILWAY COMPANY	
03113412403080000	C27	BOKUM, VICTORIA REGINALD	
03113412403090000	C27	BOKUM, VICTORIA REGINALD	7419 SPEAR DR 59079
03092635301010000	B03	BOND, GAIL M	
03092635301010000	B07	BOND, GAIL M	
03092635301010000	B08	BOND, GAIL M	
03092635301010000	B09	BOND, GAIL M	
03092720407010000	B24	BONOGOFSKY, THOMAS FRANK & DEB	2020 TIRED MAN RD 59101
03092720407010000	B25	BONOGOFSKY, THOMAS FRANK & DEB	2020 TIRED MAN RD 59101
03123620405010000	C52	BOW-TIE, INC	BUNDY RD 59088
03123620405010000	C53	BOW-TIE, INC	BUNDY RD 59088
03123614101010000	C56	BOW-TIE, INC	
03123613201010000	C57	BOW-TIE, INC	
03123614101010000	C57	BOW-TIE, INC	
03123613201010000	C58	BOW-TIE, INC	
03123612301010000	C59	BOW-TIE, INC	
03123613201010000	C59	BOW-TIE, INC	
03092717408016001	B26	BRACY, GEORGIA M TRUSTEE	7058 S BILLINGS BLVD 59101
03092717408016001	B27	BRACY, GEORGIA M TRUSTEE	7058 S BILLINGS BLVD 59101
03092717408016001	B28	BRACY, GEORGIA M TRUSTEE	7058 S BILLINGS BLVD 59101
03092716411010000	B30	BRADLEY, LARRY L	4023 OLD BLUE CREEK RD 59101
03092716411010000	B31	BRADLEY, LARRY L	4023 OLD BLUE CREEK RD 59101
03092716414010000	B31	BRADLEY, LARRY L & REBECCA	
03092716414010000	B32	BRADLEY, LARRY L & REBECCA	
03113424304020000	C23	BRADSHAW, MERRITT W II	1650 NAHMIS AVE 59037
03092711114140000	B40	BRALEY, SHANE L	129 BUENA VISTA AVE 59101
03113413201140000	C25	BRENNAN, RALPH	6827 FREY RD 59079
03113413201130000	C26	BRENNAN, RALPH	
03113413201140000	C26	BRENNAN, RALPH	6827 FREY RD 59079
03113425208040000	C23	BRITTON, STELLA P	91 NORTHERN AVE 59037
03123520101010000	C44	BROKEN ARROW RANCH	
03123520160010000	C44	BROKEN ARROW RANCH	2913 N 17TH RD 59088
03123520207010000	C44	BROKEN ARROW RANCH	2910 N 17TH RD 59088
03123520207019005	C44	BROKEN ARROW RANCH	2912 N 17TH RD 59088
03123520207019004	C44	BROKEN ARROW RANCH	2914 N 17TH RD 59088

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03123520207019001	C44	BROKEN ARROW RANCH	2910 N 17TH RD 59088
03123520207019003	C44	BROKEN ARROW RANCH	2916 N 17TH RD 59088
03123520316010000	C44	BROKEN ARROW RANCH	
03123520490010000	C44	BROKEN ARROW RANCH	N 17TH RD 59088
03123520101010000	C45	BROKEN ARROW RANCH	
03092711114190000	B40	BRUBAKER, SHIRLEY B	49 BUENA VISTA AVE 59101
03103324202609006	C06	BRYSON, MORAYMA LUCERO	11 VANDALAY ST 59105
03113425210010000	C23	BUCKLEY, TYLER & SHANNON	83 PERITSE AVE 59037
03082123303010000	A06	BUREAU OF LAND MANAGEMENT	
03082123303010000	A07	BUREAU OF LAND MANAGEMENT	
03082123303010000	A08	BUREAU OF LAND MANAGEMENT	
03082124201010000	A08	BUREAU OF LAND MANAGEMENT	
03092721101010000	B29	BUREAU OF LAND MANAGEMENT	
03092714404010000	B36	BUREAU OF LAND MANAGEMENT	
03092714404010000	B37	BUREAU OF LAND MANAGEMENT	
03103408201010000	C12	BUREAU OF LAND MANAGEMENT	
03103408350010000	C12	BUREAU OF LAND MANAGEMENT	
03103408201010000	C13	BUREAU OF LAND MANAGEMENT	
03123432402010000	C33	BUREAU OF LAND MANAGEMENT	
03123432402010000	C34	BUREAU OF LAND MANAGEMENT	
03123433102010000	C35	BUREAU OF LAND MANAGEMENT	
03123424101010000	C42	BUREAU OF LAND MANAGEMENT	
03123424101010000	C43	BUREAU OF LAND MANAGEMENT	
03123518101010000	C43	BUREAU OF LAND MANAGEMENT	
03123518101010000	C44	BUREAU OF LAND MANAGEMENT	
03123522101010000	C46	BUREAU OF LAND MANAGEMENT	
03123522101010000	C47	BUREAU OF LAND MANAGEMENT	
03123522101010000	C48	BUREAU OF LAND MANAGEMENT	
03123619401010000	C51	BUREAU OF LAND MANAGEMENT	
03123619402010000	C51	BUREAU OF LAND MANAGEMENT	
03123621403010000	C53	BUREAU OF LAND MANAGEMENT	
03123621104010000	C54	BUREAU OF LAND MANAGEMENT	
03123621403010000	C54	BUREAU OF LAND MANAGEMENT	
03123622101010000	C54	BUREAU OF LAND MANAGEMENT	
03123622302010000	C54	BUREAU OF LAND MANAGEMENT	
03123621104010000	C55	BUREAU OF LAND MANAGEMENT	
03123622101010000	C55	BUREAU OF LAND MANAGEMENT	
03123622302010000	C55	BUREAU OF LAND MANAGEMENT	
03123622101010000	C56	BUREAU OF LAND MANAGEMENT	
03123704404010000	C63	BUREAU OF LAND MANAGEMENT	
03123704404010000	C64	BUREAU OF LAND MANAGEMENT	
03133132101010000	C70	BUREAU OF LAND MANAGEMENT	
03133132204040000	C70	BUREAU OF LAND MANAGEMENT	
03133132101010000	C71	BUREAU OF LAND MANAGEMENT	
03133122201010000	C72	BUREAU OF LAND MANAGEMENT	
03133122201010000	C73	BUREAU OF LAND MANAGEMENT	
03133112101010000	C76	BUREAU OF LAND MANAGEMENT	
03133207203010000	C76	BUREAU OF LAND MANAGEMENT	
03133112101010000	C77	BUREAU OF LAND MANAGEMENT	
03133207101010000	C77	BUREAU OF LAND MANAGEMENT	
03133207203010000	C77	BUREAU OF LAND MANAGEMENT	
03143433101010000	C80	BUREAU OF LAND MANAGEMENT	
03143433101010000	C81	BUREAU OF LAND MANAGEMENT	
03143434101010000	C81	BUREAU OF LAND MANAGEMENT	
03143434101010000	C82	BUREAU OF LAND MANAGEMENT	
03143530101010000	C86	BUREAU OF LAND MANAGEMENT	
03143528101010000	C87	BUREAU OF LAND MANAGEMENT	
03143529401010000	C87	BUREAU OF LAND MANAGEMENT	

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03143528101010000	C88	BUREAU OF LAND MANAGEMENT	
03143528203010000	C88	BUREAU OF LAND MANAGEMENT	
03143529401010000	C88	BUREAU OF LAND MANAGEMENT	
03113425205010000	C22	BUREAU OF RECLAMATION	82 NORTHERN AVE 59037
03113424409100000	C23	BURNETT, DARLENE L	1675 BEECHWOOD ST 59037
03133210401010000	C79	BUYSE, MORRIS A & IDA MAE	
03123708460010000	C61	BUZANOWSKI, BERNARD JR & STACI	4365 CUSTER FRONTAGE RD 59064
03123708460010000	C62	BUZANOWSKI, BERNARD JR & STACI	4365 CUSTER FRONTAGE RD 59064
03082218201020000	A18	C J LAND & LIVESTOCK	3705 RIVER RD 59044
03082218201020000	A19	C J LAND & LIVESTOCK	3705 RIVER RD 59044
03082218201020000	A20	C J LAND & LIVESTOCK	3705 RIVER RD 59044
03082218201020000	A21	C J LAND & LIVESTOCK	3705 RIVER RD 59044
03082218204010000	A20	C J LAND LIVESTOCK LP	
03082218204010000	A21	C J LAND LIVESTOCK LP	
03082218204010000	A22	C J LAND LIVESTOCK LP	
03082208310016001	A23	C/J LAND & LIVESTOCK LP	
03082208310016001	A24	C/J LAND & LIVESTOCK LP	
03082208310016002	A24	C/J LAND & LIVESTOCK LP	
03082208101016001	A25	C/J LAND & LIVESTOCK LP	5283 RIVER RD 59044
03082208101016000	A25	C/J LAND & LIVESTOCK LP	
03082208310016000	A25	C/J LAND & LIVESTOCK LP	
03082208310016001	A25	C/J LAND & LIVESTOCK LP	
03082208310016002	A25	C/J LAND & LIVESTOCK LP	
03082208101016001	A26	C/J LAND & LIVESTOCK LP	5283 RIVER RD 59044
03082208101016000	A26	C/J LAND & LIVESTOCK LP	
03082208310016000	A26	C/J LAND & LIVESTOCK LP	
03082208101016000	A27	C/J LAND & LIVESTOCK LP	
03082208101016000	A28	C/J LAND & LIVESTOCK LP	
03113414105100000	C26	CARLSON, ALVIN B & DAISY M &	
03113414105150000	C26	CARLSON, ALVIN B & DAISY M &	
03113414110010000	C26	CARLSON, ALVIN B & DAISY M &	FREY RD 59079
03113414120010000	C26	CARLSON, ALVIN B & DAISY M &	FREY RD 59079
03103324260380000	C07	CARLSON, CRAIG M & JOSIE	1960 OUTLOOK DR 59105
03113423410070000	C24	CARLSON, RONALD E	5923 SCHULZ PL 59079
03092625209010000	B14	CARMAN, MARK L & NANCY T	2525 GOODMAN RD 59101
03103323401030000	C04	CARPENTER, LYNN L & JAMIE L	1302 YELLOWSTONE RIVER R 59105
03082113103010000	A17	CASTLEBERRY, ROBERT A & PATRIC	202 N RIVER RD 59044
03082113103010000	A18	CASTLEBERRY, ROBERT A & PATRIC	202 N RIVER RD 59044
03082113103010000	A19	CASTLEBERRY, ROBERT A & PATRIC	202 N RIVER RD 59044
03092716412020000	B32	CASTRO, TINA MARIE	3601 OLD BLUE CREEK RD 59101
03113424409150000	C23	CASTRO, VINCENT & KELLY R	120 3RD ST N 59037
03092719103089005	B22	CAYKO, KEN	1926 MULLOWNEY LN 59101
03103323401050000	C04	CETRONE, DONALD L & PATRICIA J	1314 YELLOWSTONE RIVER R 59105
03113424408200000	C23	CHARLTON, JAMES R & BEVERLY	1680 BEECHWOOD ST 59037
03103324202206000	C05	CHERRY CREEK DEVELOPMENT INC	
03103324202600000	C05	CHERRY CREEK DEVELOPMENT INC	
03103324202400000	C06	CHERRY CREEK DEVELOPMENT INC	
03103324202600000	C06	CHERRY CREEK DEVELOPMENT INC	
03103324202400000	C07	CHERRY CREEK DEVELOPMENT INC	
03082123201010000	A05	CHILDS, GREGORY W	2128 THIEL RD 59044
03082207104010000	A22	CHRISTENSEN, RICHARD C TRUSTE	
03082208207010000	A22	CHRISTENSEN, RICHARD C TRUSTE	
03082207104010000	A23	CHRISTENSEN, RICHARD C TRUSTE	
03082208207010000	A23	CHRISTENSEN, RICHARD C TRUSTE	
03082208207010000	A24	CHRISTENSEN, RICHARD C TRUSTE	
03082208207010000	A25	CHRISTENSEN, RICHARD C TRUSTE	
03082205310010000	A25	CHRISTENSEN, RICHARD C TRUSTEE	4633 CHRISTENSEN RD 59101
03082205310010000	A26	CHRISTENSEN, RICHARD C TRUSTEE	4633 CHRISTENSEN RD 59101

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03092635201010000	B07	CHRISTENSEN, RICHARD C TRUSTEE	3215 WISE LN 59101
03092635201010000	B08	CHRISTENSEN, RICHARD C TRUSTEE	3215 WISE LN 59101
03092635201010000	B09	CHRISTENSEN, RICHARD C TRUSTEE	3215 WISE LN 59101
03103324202609005	C06	CHRISTMAN, THAN EDWARD & TINA	10 CHERRY CREEK LOOP 59105
03103313101010000	C09	CHRISTOFERSON, BRYAN E & CANDA	2011 BARRETT RD 59105
03103313101010000	C10	CHRISTOFERSON, BRYAN E & CANDA	2011 BARRETT RD 59105
03082115307020000	A01	CHS INC	
03082116407010000	A01	CHS INC	1205 US HIGHWAY 310 59044
03082115307020000	A02	CHS INC	
03082115409120000	A09	CHS INC	
03082114101010000	A09	CIRCLE LAND MANAGEMENT INC	2506 S LAUREL RD 59044
03082114303010000	A09	CIRCLE LAND MANAGEMENT INC	
03082114101010000	A10	CIRCLE LAND MANAGEMENT INC	2506 S LAUREL RD 59044
03082114303010000	A10	CIRCLE LAND MANAGEMENT INC	
03082114403010000	A10	CIRCLE LAND MANAGEMENT INC	
03092720206430000	B23	CITY OF BILLINGS	
03092717403016000	B26	CITY OF BILLINGS	
03092720190016000	B26	CITY OF BILLINGS	
03092721209010000	B26	CITY OF BILLINGS	
03092721213010000	B26	CITY OF BILLINGS	
03092717403016001	B27	CITY OF BILLINGS	
03092717403016000	B27	CITY OF BILLINGS	
03092720177010000	B27	CITY OF BILLINGS	
03092720190016000	B27	CITY OF BILLINGS	
03092720206430000	B27	CITY OF BILLINGS	
03092716302010000	B28	CITY OF BILLINGS	S BILLINGS BLVD 59101
03092721209010000	B28	CITY OF BILLINGS	
03092721213010000	B28	CITY OF BILLINGS	
03092721209010000	B29	CITY OF BILLINGS	
03092721211010000	B29	CITY OF BILLINGS	
03092715320010000	B31	CITY OF BILLINGS	
03092715320010000	B32	CITY OF BILLINGS	
03092715320010000	B33	CITY OF BILLINGS	
03092715320010000	B34	CITY OF BILLINGS	
03092711140010000	B38	CITY OF BILLINGS	
03092711114020000	B39	CITY OF BILLINGS	BELKNAP AVE 59101
03092711130010000	B39	CITY OF BILLINGS	
03092711140010000	B39	CITY OF BILLINGS	
03092702401010000	B40	CITY OF BILLINGS	BELKNAP AVE 59101
03092702401020000	B40	CITY OF BILLINGS	2251 BELKNAP AVE 59101
03092702420010000	B40	CITY OF BILLINGS	
03092711114020000	B40	CITY OF BILLINGS	BELKNAP AVE 59101
03092711114120000	B40	CITY OF BILLINGS	BUENA VISTA AVE 59101
03092711130010000	B40	CITY OF BILLINGS	
03092711140010000	B40	CITY OF BILLINGS	
03092702401010000	B41	CITY OF BILLINGS	BELKNAP AVE 59101
03092702401020000	B41	CITY OF BILLINGS	2251 BELKNAP AVE 59101
03103334101020000	B43	CITY OF BILLINGS	
03103334101020000	B44	CITY OF BILLINGS	
03103334101020000	B45	CITY OF BILLINGS	
03103326206020000	C02	CITY OF BILLINGS	
03103326206020000	C03	CITY OF BILLINGS	
03092715201010000	B31	CITY OF BILLINGS (PARK)	
03092715201010000	B33	CITY OF BILLINGS (PARK)	
03082115301010000	A01	CITY OF LAUREL	
03082115307010000	A01	CITY OF LAUREL	US HIGHWAY 212 S 59044
03082115301010000	A02	CITY OF LAUREL	
03082115307200000	A02	CITY OF LAUREL	

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03082204313010000	A28	CLARKE, PATRICK	5626 RIVER RD 59044
03103324260640000	C07	CLAUSE, JOCK E & KATHY L	1940 RIVER OVERLOOK DR 59105
03103326208308001	C02	CLAUSE, ROY	615 CLAUSE CIR 59105
03103326208300000	C02	CLAUSE, ROY E	613 CLAUSE CIR
03103326208300000	C03	CLAUSE, ROY E	613 CLAUSE CIR
03103324260250000	C07	CLAUSE, ROY E & BETTY	1995 OUTLOOK DR 59105
03103324201310000	C06	CLAUSE, ROY E & JOCK E	1505 WICKS LN 59105
03103324201600000	C06	CLAUSE, ROY E & JOCK E	
03103324201310000	C07	CLAUSE, ROY E & JOCK E	1505 WICKS LN 59105
03103324201310000	C08	CLAUSE, ROY E & JOCK E	1505 WICKS LN 59105
03103326204240000	C03	CLEVELAND, SANDRA L	546 LOMOND LN 59101
03103326204250000	C03	CLEVELAND, SANDRA L	LOMOND LN 59101
03092716411020000	B31	CLINE, LEONARD R	3907 OLD BLUE CREEK RD 59101
03113412401010000	C26	CNR LIVING TRUST	
03113412401010000	C27	CNR LIVING TRUST	
03082123109010000	A07	COLLEGE PARK LLP	3001 THIEL RD 59044
03082123109010000	A08	COLLEGE PARK LLP	3001 THIEL RD 59044
03082123109010000	A11	COLLEGE PARK LLP	3001 THIEL RD 59044
03082123109010000	A12	COLLEGE PARK LLP	3001 THIEL RD 59044
03103313120350000	C10	CONOCOPHILLIPS COMPANY	
03113425210080000	C23	COOK, DONNA L	1548 SHOPIS AVE 59037
03113425213060000	C23	COOK, DONNA L	
03113506201900000	C31	COOLAHAN, BENJAMIN M &	7925 EAGLE BEND BLVD 59079
03103326102020000	C04	CORCORAN PARTNERSHIP	532 KLENCH LN
03143436250010000	C83	COUGHLIN, JOSEPH W & KELLE J	MUSSELLSHELL TRAIL 59024
03092719103089041	B22	COX, JEAN	1926 MULLOWNEY LN 59101
03103403203100000	C17	CRANE, ROBERT A & DEBORAH A	5199 CREEKMORE LOOP 59037
03113414410040000	C25	CRESSWELL, JAMES J & MARGARET	6248 SIGNAL POINT DR 59079
03123707405010000	C60	CROW TRIBE OF INDIANS THE	
03123718111010000	C60	CROW TRIBE OF INDIANS THE	
03123431401020000	C32	CURRY, RUSSELL E JR & MERILEE	8844 BARTON PL 59079
03103326308010000	C02	DAILEY, THOMAS A	1007 ISLAND PARK RD 59101
03113412403120000	C27	DALE, STEVEN G & CHERI L	7539 SPEAR DR 59079
03103313125010000	C10	DARLING INTERNATIONAL INC	
03103418211010000	C10	DARLING INTERNATIONAL INC	
03103324202609097	C06	DARNELL, IVA WALLIS	33 JUBILEE ST 59105
03092719103089024	B22	DAVIS, REBECCA	1926 MULLOWNEY LN 59101
03103326204040000	C03	DAVIS, WESLEY E & RHONDA L	1123 DOON AVE
03103404104160000	C16	DEAN, ANDY D & STACY A	4715 BALD EAGLE BLVD 59037
03113424410070000	C23	DELL, CHRISTOPHER MATTHEW & SH	DATE ST 59037
03123521201200000	C45	DEPT OF FISH, WILDLIFE & PARKS	
03103324202609039	C06	DEVOUS, TONI LYNN	22 TARTARIAN ST 59105
03103326205060000	C02	DICKINSON, VICKI & BRENDA	521 BENCH BLVD 59105
03092625401010000	B46	DOLPH, DOUGLAS K & DIANA M	
03092625401010000	B47	DOLPH, DOUGLAS K & DIANA M	
03133124101010000	C75	DONNES, ADELINE	
03133113403010000	C76	DONNES, ADELINE	
03133113413010000	C76	DONNES, ADELINE	
03133124101010000	C76	DONNES, ADELINE	
03133207301010000	C76	DONNES, ADELINE	
03133218215010000	C76	DONNES, ADELINE	
03133207301010000	C77	DONNES, ADELINE	
03133207401010000	C77	DONNES, ADELINE	6385 N FRONTAGE RD 59024
03133218215010000	C77	DONNES, ADELINE	
03133208404010000	C78	DONNES, ADELINE	
03133208409010000	C78	DONNES, ADELINE	
03133203311010000	C79	DONNES, ADELINE	
03133203401010000	C79	DONNES, ADELINE	7001 CUSTER FRONTAGE RD 59024

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03133210211010000	C79	DONNES, ADELINE	6877 CUSTER FRONTAGE RD 59024
03133210215010000	C79	DONNES, ADELINE	
03133203311010000	C80	DONNES, ADELINE	
03133203401010000	C80	DONNES, ADELINE	7001 CUSTER FRONTAGE RD 59024
03113424305010000	C23	DONNES, FRANK C & CINDY E	5807 FREY RD 59079
03113423407170000	C24	DONNES, FRANK C & CINDY E	FREY RD 59079
03113423410010000	C24	DONNES, FRANK C & CINDY E	FREY RD 59079
03113424305010000	C24	DONNES, FRANK C & CINDY E	5807 FREY RD 59079
03082113403050000	A14	DONOVAN, VICTOR J & RITA M	1370 MULEY MDWS 59044
03082124190010000	A14	DONOVAN, VICTOR J & RITA M	RIVER RD 59044
03082113403050000	A17	DONOVAN, VICTOR J & RITA M	1370 MULEY MDWS 59044
03082113405010000	A17	DONOVAN, VICTOR J & RITA M	MULEY MDWS 59044
03082113405010000	A18	DONOVAN, VICTOR J & RITA M	MULEY MDWS 59044
03113425210050000	C23	DOTSON, RUSSELL A & BRENDA M	93 PERITSE AVE 59037
03113425213040000	C23	DOTSON, RUSSELL A & BRENDA M	
03082124206010000	A12	DOVE, KENNETH L	3243 RIVER RD 59044
03082124206010000	A13	DOVE, KENNETH L	3243 RIVER RD 59044
03092715202010000	B33	DRISCOLL FAMILY LP	
03092715202010000	B34	DRISCOLL FAMILY LP	
03123705101010000	C60	DSS RANCH LLC	
03123705101010000	C61	DSS RANCH LLC	
03123704201010000	C62	DSS RANCH LLC	
03123705101010000	C62	DSS RANCH LLC	
03123709217010000	C62	DSS RANCH LLC	
03123703301010000	C63	DSS RANCH LLC	
03123704201010000	C63	DSS RANCH LLC	
03123703201010000	C64	DSS RANCH LLC	
03123703301010000	C64	DSS RANCH LLC	
03123704201010000	C64	DSS RANCH LLC	
03123702204010000	C65	DSS RANCH LLC	
03123703201010000	C65	DSS RANCH LLC	
03103326320200000	C01	DUKE, RAYMOND L & LORRAINE I	CERISE RD
03113424408100000	C23	DUSSAULT, RAYMOND J & SUSAN M	1670 BEECHWOOD ST N 59037
03082113407010000	A14	DUSTIN, JAMES A	3695 RIVER RD 59044
03113506301010000	C30	EAGLE BEND COMMUNITY ASSOC INC	
03113506101010000	C32	EAGLE BEND COMMUNITY ASSOC INC	
03113506205010000	C30	EAGLE BEND OF THE YELLOWSTONE	PELICAN COVE 59079
03113506205250000	C30	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506201550000	C31	EAGLE BEND OF THE YELLOWSTONE	FOX RUN 59079
03113506201600000	C31	EAGLE BEND OF THE YELLOWSTONE	
03113506201650000	C31	EAGLE BEND OF THE YELLOWSTONE	
03113506201700000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506201750000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506204350000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506204400000	C31	EAGLE BEND OF THE YELLOWSTONE	
03113506204450000	C31	EAGLE BEND OF THE YELLOWSTONE	WHITETAIL RUN 59079
03113506204550000	C31	EAGLE BEND OF THE YELLOWSTONE	WILD GAME TRL 59079
03113506204600000	C31	EAGLE BEND OF THE YELLOWSTONE	WILD GAME TRL 59079
03113506205400000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205450000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205500000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205550000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205600000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205650000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205700000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205750000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205800000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03103327106080000	C02	ECKHARDT, ROBERT V & SHARMAN L	444 BENCH BLVD 59105

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03082115401050000	A03	EDWARDS, JAMES E	
03082114301010000	A04	EDWARDS, JAMES E	
03082115401050000	A04	EDWARDS, JAMES E	
03082123111010000	A07	EDWARDS, JAMES E	
03082123115010000	A07	EDWARDS, JAMES E	
03082123115010000	A08	EDWARDS, JAMES E	
03082114301010000	A09	EDWARDS, JAMES E	
03082115401050000	A09	EDWARDS, JAMES E	
03082114301010000	A10	EDWARDS, JAMES E	
03082114401010000	A10	EDWARDS, JAMES E	
03082123111010000	A10	EDWARDS, JAMES E	
03082123115010000	A10	EDWARDS, JAMES E	
03103326205070000	C02	EDWARDS, THOMAS G & ALMA L	545 BENCH BLVD 59105
03103327106090000	C02	EGGUM, CAROLE	450 BENCH BLVD 59105
03113424101170000	C28	EISELE, CHARLES & DEBORAH	1704 N 2ND RD 59037
03103324202609041	C06	ELITE HOMES	21 SKEENA ST 59105
03103324260300000	C07	ELLIS, ROBERT E & PAMELA O	2000 OUTLOOK DR 59105
03092719113040000	B22	ENERGY & ENVIRONMENTAL MEASURE	1744 MULLOWNEY LN
03103324202609019	C06	ERICKSON, MICHAEL J	16 VANDALAY ST 59105
03082124111010000	A13	ERICKSON, ROGER C	3443 RIVER RD 59044
03082124111010000	A14	ERICKSON, ROGER C	3443 RIVER RD 59044
03133207104010000	C77	ERNA R KEMPH IRREVOCABLE TRUST	
03133208305010000	C77	ERNA R KEMPH IRREVOCABLE TRUST	
03133208305010000	C78	ERNA R KEMPH IRREVOCABLE TRUST	
03133203303010000	C79	ERNA R KEMPH IRREVOCABLE TRUST	
03133210203010000	C79	ERNA R KEMPH IRREVOCABLE TRUST	
03133203303010000	C80	ERNA R KEMPH IRREVOCABLE TRUST	
03123433411030000	C35	EVERGREEN DAIRY FARM INC	
03092715211010000	B33	EVOLUTION HC, LLC	3176 S FRONTAGE RD
03103324301010000	C03	EXXON CORPORATION	
03103324301010000	C04	EXXON CORPORATION	
03103324301010000	C05	EXXON CORPORATION	
03103419201100000	C07	EXXON CORPORATION	
03103419320010000	C07	EXXON CORPORATION	
03103313405010000	C08	EXXON CORPORATION	
03103418301100000	C08	EXXON CORPORATION	
03103419201100000	C08	EXXON CORPORATION	
03103418301100000	C09	EXXON CORPORATION	
03103324401050000	C05	EXXON MOBIL CORPORATION	
03103324401050000	C06	EXXON MOBIL CORPORATION	
03103324401050000	C07	EXXON MOBIL CORPORATION	
03103324401050000	C08	EXXON MOBIL CORPORATION	
03103334101010000	B45	FARMERS UNION CENTRAL EXCHANGE	
03123701307010000	C66	FEELEY, WILLIAM J	CUSTER FRONTAGE RD 59064
03123520450010000	C44	FENTON, WARD & ALICE	N 18TH RD 59088
03123520450010000	C45	FENTON, WARD & ALICE	N 18TH RD 59088
03133202315010000	C80	FETTIG, CHARLOTTE G	
03113425205020000	C22	FIRE DEPT OF TOWN OF HUNTLEY	76 NORTHERN AVE 59037
03113414101500000	C26	FISCUS, DENISE RENEE	
03103324260350000	C07	FLEURY, RYAN	1980 OUTLOOK DR 59105
03082113301010000	A10	FLYING BOX RANCH CO	
03082113301010000	A15	FLYING BOX RANCH CO	
03082113301010000	A16	FLYING BOX RANCH CO	
03082113301010000	A17	FLYING BOX RANCH CO	
03082113301010000	A18	FLYING BOX RANCH CO	
03082112101010000	A19	FLYING BOX RANCH CO	127 N MAGELSSEN RD 59044
03082113301010000	A19	FLYING BOX RANCH CO	
03082207306010000	A19	FLYING BOX RANCH CO	431 ALLENDALE RD 59044

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03082112101010000	A20	FLYING BOX RANCH CO	127 N MAGELSSEN RD 59044
03082207306010000	A20	FLYING BOX RANCH CO	431 ALLENDALE RD 59044
03082207306010000	A21	FLYING BOX RANCH CO	431 ALLENDALE RD 59044
03082207306010000	A22	FLYING BOX RANCH CO	431 ALLENDALE RD 59044
03103324206040000	C06	FORTNER, BLAINE	1545 RIVERVIEW CIR 59105
03103324206040000	C07	FORTNER, BLAINE	1545 RIVERVIEW CIR 59105
03092711305050000	B36	FOX, DARLENE,	
03092711305010000	B37	FOX, DARLENE,	
03092711305030000	B37	FOX, DARLENE,	
03092711305050000	B37	FOX, DARLENE,	
03092711305090000	B37	FOX, DARLENE,	
03092711305120000	B37	FOX, DARLENE,	
03123427101010000	C37	FOX, LARRY W & GOLDA D	933 W L RD 59088
03123427101010000	C38	FOX, LARRY W & GOLDA D	933 W L RD 59088
03123427101010000	C39	FOX, LARRY W & GOLDA D	933 W L RD 59088
03092626301200000	B09	FRAZIER, KENNETH S & SHEILAH	3185 WISE LN 59101
03092719103089003	B22	FRAZIER, ROBERT	1926 MULLOWNEY LN 59101
03123614301010000	C56	FREITAG, MARY JANE &	
03123614401010000	C56	FREITAG, MARY JANE &	
03123623101010000	C56	FREITAG, MARY JANE &	
03123623111010000	C56	FREITAG, MARY JANE &	
03123623320010000	C56	FREITAG, MARY JANE &	
03123623320090000	C56	FREITAG, MARY JANE &	
03123623320110000	C56	FREITAG, MARY JANE &	
03123623321010000	C56	FREITAG, MARY JANE &	
03123623321040000	C56	FREITAG, MARY JANE &	
03123623321060000	C56	FREITAG, MARY JANE &	
03123623441010000	C56	FREITAG, MARY JANE &	
03123623442010000	C56	FREITAG, MARY JANE &	
03123623442050000	C56	FREITAG, MARY JANE &	
03123613103010000	C57	FREITAG, MARY JANE &	
03123614401010000	C57	FREITAG, MARY JANE &	
03123623111010000	C57	FREITAG, MARY JANE &	
03123624101010000	C57	FREITAG, MARY JANE &	2875 S 37TH RD 59064
03123624106010000	C57	FREITAG, MARY JANE &	
03123613103010000	C58	FREITAG, MARY JANE &	
03123624106010000	C58	FREITAG, MARY JANE &	
03123718201010000	C58	FREITAG, MARY JANE &	
03123718204010000	C58	FREITAG, MARY JANE &	
03123707305010000	C59	FREITAG, MARY JANE &	
03123718201010000	C59	FREITAG, MARY JANE &	
03123718204010000	C59	FREITAG, MARY JANE &	
03092719103089043	B22	FRENCH, ROBERT & TINA	1926 MULLOWNEY LN 59101
03082115401030000	A02	FREY, DALE T & GAYLE M	1344 MC MULLEN LN 59044
03082115401030000	A03	FREY, DALE T & GAYLE M	1344 MC MULLEN LN 59044
03113425208090000	C23	FRIELING, PHILLIP J & JULIE M	
03113425208100000	C23	FRIELING, PHILLIP J & JULIE M	94 PERITSE AVE 59037
03113507401010000	C28	GABEL, CLARICE M	
03113518201010000	C28	GABEL, DUANE H	1922 N 3RD RD 59037
03113507407010000	C28	GABEL, LEROY & SYDNEY	2056 N 4TH RD 59037
03113518320010000	C28	GABEL, LEROY & SYDNEY	
03113519201140000	C28	GABEL, LEROY & SYDNEY	
03113507407010000	C29	GABEL, LEROY & SYDNEY	2056 N 4TH RD 59037
03123424404410000	C42	GALAVOTTI, EDWARD L	
03092716412050000	B31	GALVIN, BRUCE F	3737 OLD BLUE CREEK RD 59101
03092716412050000	B32	GALVIN, BRUCE F	3737 OLD BLUE CREEK RD 59101
03113507110010000	C29	GANNON, JAMES H & KATHRYN A	2194 N 4TH RD 59037
03113507110010000	C30	GANNON, JAMES H & KATHRYN A	2194 N 4TH RD 59037

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03123424302010000	C41	GARNIER REVOCABLE TRUST	
03082204306010000	A28	GAUGER, THOMAS P	
03123624201010000	C56	GEE, LAVADA N	
03123624201010000	C57	GEE, LAVADA N	
03123624250010000	C57	GEE, LAVADA N	2ND ST S 59064
03113505206010000	C32	GENEY, JERRY P & DONNA R	N 5TH RD 59037
03113505206300000	C32	GENEY, JERRY P & DONNA R	2262 N 5TH RD 59037
03103324202609011	C06	GEORGE, LYLE ALLEN & CANDACE E	1 VANDALAY ST 59105
03113414410070000	C25	GEORGE, MICHAEL J	
03092719103089031	B22	GEORGESON, MIKE P	1926 MULLOWNEY LN 59101
03082122212290000	A02	GLOBAL S INVESTMENTS LLC	1317 THIEL RD 59044
03113424301040000	C23	GODDARD, CHARLES L	8017 US HIGHWAY 312 59079
03113424301010000	C23	GODDARD, CHARLES L & JOHANNA M	
03092719103089035	B22	GOFF, KAYDEE	1926 MULLOWNEY LN 59101
03113434109010000	C19	GOGGINS, PATRICK K	
03113426101010000	C22	GOGGINS, PATRICK K	
03113426101010000	C23	GOGGINS, PATRICK K	
03113414301010000	C25	GOGGINS, PATRICK K	6703 SHEPHERD RD 59079
03113414301010000	C26	GOGGINS, PATRICK K	6703 SHEPHERD RD 59079
03113435207010000	C19	GOGGINS, PATRICK K & FLORENCE	4415 VERMILLION RD 59105
03113435207010000	C20	GOGGINS, PATRICK K & FLORENCE	4415 VERMILLION RD 59105
03113425230010000	C21	GOGGINS, PATRICK K & FLORENCE	
03113426301010000	C21	GOGGINS, PATRICK K & FLORENCE	
03113435207010000	C21	GOGGINS, PATRICK K & FLORENCE	4415 VERMILLION RD 59105
03113425230010000	C22	GOGGINS, PATRICK K & FLORENCE	
03113426301010000	C22	GOGGINS, PATRICK K & FLORENCE	
03113424303010000	C23	GOGGINS, PATRICK K & FLORENCE	
03113425230010000	C23	GOGGINS, PATRICK K & FLORENCE	
03113506402010000	C30	GOGGINS, PATRICK K & FLORENCE	
03113505201010000	C31	GOGGINS, PATRICK K & FLORENCE	
03113506402010000	C31	GOGGINS, PATRICK K & FLORENCE	
03113505201010000	C32	GOGGINS, PATRICK K & FLORENCE	
03113412106040000	C27	GONG, THERESA	PINTO DR 59079
03113412106050000	C27	GONG, THERESA	7648 PINTO DR 59079
03082204101010000	A29	GONITZKE, JOHN & KAY F	
03082204106010000	A29	GONITZKE, JOHN & KAY F	
03082204107010000	A29	GONITZKE, JOHN & KAY F	4313 DUCK CREEK RD 59044
03082204106010000	B01	GONITZKE, JOHN & KAY F	
03082204107010000	B01	GONITZKE, JOHN & KAY F	4313 DUCK CREEK RD 59044
03082204106010000	B02	GONITZKE, JOHN & KAY F	
03082204106010000	B04	GONITZKE, JOHN & KAY F	
03082204106010000	B05	GONITZKE, JOHN & KAY F	
03092626104010000	B09	GOODMAN, IRVIN & JANICE TRUSTE	2720 GOODMAN RD 59101
03092635109010000	B09	GOODMAN, IRVIN & JANICE TRUSTE	
03092635109010000	B10	GOODMAN, IRVIN & JANICE TRUSTE	
03092626104010000	B11	GOODMAN, IRVIN & JANICE TRUSTE	2720 GOODMAN RD 59101
03092635109010000	B11	GOODMAN, IRVIN & JANICE TRUSTE	
03092626104010000	B12	GOODMAN, IRVIN & JANICE TRUSTE	2720 GOODMAN RD 59101
03092626104010000	B13	GOODMAN, IRVIN & JANICE TRUSTE	2720 GOODMAN RD 59101
03092719304010000	B16	GOODMAN, KELLY	
03092719304010000	B17	GOODMAN, KELLY	
03092719307010000	B17	GOODMAN, KELLY	
03092719304010000	B18	GOODMAN, KELLY	
03092719307010000	B18	GOODMAN, KELLY	
03092719310010000	B18	GOODMAN, KELLY	EAST LN 59101
03092719313010000	B18	GOODMAN, KELLY	
03133123301010000	C74	GOTSCHALL FAMILY LLC	
03133126213010000	C74	GOTSCHALL FAMILY LLC	

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03133124201010000	C75	GOTSCHALL FAMILY LLC	
03133113201010000	C76	GOTSCHALL FAMILY LLC	
03133124201010000	C76	GOTSCHALL FAMILY LLC	
03133113201010000	C77	GOTSCHALL FAMILY LLC	
03092719103089039	B22	GRAHAM, LINDA K	1926 MULLOWNEY LN 59101
03133210117010000	C79	GRAMMENS BROS	
03133203404010000	C80	GRAMMENS BROS	6978 CUSTER FRONTAGE RD 59024
03133124307010000	C74	GRAMMENS BROTHERS	
03133125209010000	C74	GRAMMENS BROTHERS	
03133126104010000	C74	GRAMMENS BROTHERS	
03133124307010000	C75	GRAMMENS BROTHERS	
03133124401010000	C75	GRAMMENS BROTHERS	
03133125209010000	C75	GRAMMENS BROTHERS	
03133203406010000	C80	GRAMMENS, MARION	6982 CUSTER FRONTAGE RD 59024
03082115409100000	A09	GRANDPRE, TIMOTHY D & AMY P K	704 S STRAUCH RD 59044
03113507201070000	C27	GREENBERG, LYNNETTE C	7725 PINTO DR 59079
03113507201070000	C29	GREENBERG, LYNNETTE C	7725 PINTO DR 59079
03113412117010000	C29	GREENWOOD, JAMES L & LILA K	7765 PINTO DR 59079
03113507201100000	C29	GREENWOOD, JAMES L & LILA K	7745 PINTO DR 59079
03113412117010000	C30	GREENWOOD, JAMES L & LILA K	7765 PINTO DR 59079
03133134101010000	C72	GRIBBEN, TERRY S	
03133134101010000	C73	GRIBBEN, TERRY S	
03133126307010000	C73	GRINSTEINER, JOHN M & BETTY L	
03133127403010000	C73	GRINSTEINER, JOHN M & BETTY L	
03133126307010000	C74	GRINSTEINER, JOHN M & BETTY L	
03123708211010000	C60	GROSSI, GEORGE	
03123708211010000	C61	GROSSI, GEORGE	
03123708211010000	C62	GROSSI, GEORGE	
03103326204120000	C03	GUGLER, RICHARD & JUANITA	BONNIE LN 59101
03143436201010000	C83	GUNN, RONALD W	
03143436201010000	C84	GUNN, RONALD W	
03143425101010000	C85	GUNN, RONALD W	
03143436201010000	C85	GUNN, RONALD W	
03143531201010000	C85	GUNN, RONALD W	
03143425101010000	C86	GUNN, RONALD W	
03143531201010000	C86	GUNN, RONALD W	
03113414410010000	C25	GUTIERREZ, REFUGIO J & JUANITA	
03113507101010000	C29	HALVORSON, ROBERT D	2104 N 4TH RD 59037
03113507101060000	C29	HALVORSON, ROBERT D	
03113424409010000	C23	HANCE, TIMOTHY W & LEINANI L	1655 BEECHWOOD ST 59037
03113425213020000	C23	HANCOCK, HOMER L	
03123425211010000	C41	HANSEN, ROBERT MARK	
03092625201010000	B13	HANSON, JEROME D	2711 GOODMAN RD 59101
03103403203010000	C16	HARMS, GAIL S	4815 BALD EAGLE BLVD 59037
03103403203010000	C17	HARMS, GAIL S	4815 BALD EAGLE BLVD 59037
03123431406100000	C32	HARR, CAROL M	8829 BARTON PL 59079
03113507201140000	C29	HARRINGTON, DUWAYNE A	PINTO DR 59079
03113507201140000	C30	HARRINGTON, DUWAYNE A	PINTO DR 59079
03113506205300000	C30	HARVEY, LANCE G & GAYLE J	7450 EAGLE BEND BLVD 59079
03113506205300000	C31	HARVEY, LANCE G & GAYLE J	7450 EAGLE BEND BLVD 59079
03082204301010000	A28	HASSETT, BARBARA L &	5423 RIVER RD 59044
03092716412040000	B31	HATFIELD, ROBIN & JASON	3811 OLD BLUE CREEK RD 59101
03133209207010000	C78	HAUCK, SCOTT W	
03133209207010000	C79	HAUCK, SCOTT W	
03103327106067000	C02	HEAVENLY HOMES INC	CROSS ST 59105
03133209401010000	C78	HEBERLE, MARY LOUISE	
03133209401010000	C79	HEBERLE, MARY LOUISE	
03113424408010000	C23	HEGLE, JAMES G & JILL J	1660 BEECHWOOD ST 59037

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03123619405010000	C51	HEIN, WILLIAM & ARLENE	
03123620301010000	C51	HEIN, WILLIAM & ARLENE	
03123620301010000	C52	HEIN, WILLIAM & ARLENE	
03123620301010000	C53	HEIN, WILLIAM & ARLENE	
03092719103089040	B22	HENRIKEN, ALICE M	1926 MULLOWNEY LN 59101
03103326203010000	C02	HENRY, ROGER D & SHARON L	516 SANDY LN 59105
03103326203010000	C03	HENRY, ROGER D & SHARON L	516 SANDY LN 59105
03103327104040000	C02	HENSCHEL-HANSEN, SUZANNE ROBIN	368 BENCH BLVD 59105
03113424410140000	C23	HEPPNER, DEAN B & JULIE A	1640 DATE AVE 59037
03113424410210000	C23	HEPPNER, DEAN B & JULIE A	DATE ST 59037
03123524403010000	C50	HEYD, LORENZ C & JEFFREY L & K	
03123619301010000	C50	HEYD, LORENZ C & JEFFREY L & K	
03123619301010000	C51	HEYD, LORENZ C & JEFFREY L & K	
03123424480010000	C42	HILDEBRAND, RONALD D & KATHERI	2890 N 14TH RD 59088
03113506201990000	C31	HINKLE, CASEY VICTOR LEE &	8025 EAGLE BEND BLVD 59079
03113506201990000	C32	HINKLE, CASEY VICTOR LEE &	8025 EAGLE BEND BLVD 59079
03113424408300000	C23	HIRNING, DAVID JOHN	1690 BEECHWOOD ST 59037
03103323408010000	C05	HOBBS, NORMAN D	
03103323408100000	C05	HOBBS, NORMAN D	1415 YELLOWSTONE RIVER R
03103323408110000	C05	HOBBS, NORMAN D	YELLOWSTONE RIVER R 59105
03113506205100000	C30	HOFFMAN, DAVID A	EAGLE BEND BLVD 59079
03113506205150000	C30	HOFFMAN, DAVID A	7300 EAGLE BEND BLVD 59079
03133204480010000	C79	HOPE, CARL B	7930 BUFFALO CREEK RD 59024
03103324202609001	C06	HORN, ISAAC J	2 CHERRY CREEK LOOP 59105
03103312410310000	C10	HOYT, HUDSON A	2206 MARY ST 59105
03092711114160000	B40	HUCK, GERARD R	117 BUENA VISTA AVE 59101
03092719103089042	B22	HULTGREN, HEATHER	1926 MULLOWNEY LN 59101
03103324202609012	C06	HUNTER, PAT & RICHARD	2 VANDALAY ST 59105
03092719103089012	B22	HUNTER, PATTY	1926 MULLOWNEY LN 59101
03113424420010000	C23	HUNTLEY PROJECT IRRIGATION DIS	
03113519201170000	C28	HUPKA, MYLES D	1767 N 2ND RD 59037
03103326307010000	C01	HUSCHKA, MELVIN	
03103326307010000	C02	HUSCHKA, MELVIN	
03092716103210000	B33	INLAND TRUCK PARTS CO	4020 S FRONTAGE RD
03123521201100000	C45	IRVINE, LACINDA M	2921 N 18TH RD 59088
03123521311010000	C45	IRVINE, LACINDA M	
03123521311010000	C46	IRVINE, LACINDA M	
03092711114210000	B40	JACOBS, DENNIS R & QUINA JOYCE	33 BUENA VISTA AVE 59101
03103326208360000	C03	JAMES, JACKIE	855 JOYCE CIR 59105
03113505309010000	C31	JARDINE, CONNIE M	2259 N 4TH RD 59037
03113505309010000	C32	JARDINE, CONNIE M	2259 N 4TH RD 59037
03103417201010000	C09	JDW INDUSTRIAL PARK 2, LLC	3306 COULSON RD
03103417201010000	C10	JDW INDUSTRIAL PARK 2, LLC	3306 COULSON RD
03092719301010000	B16	JEAN L NILSON REVOCABLE TRUST	2201 EAST LN 59101
03092719301010000	B17	JEAN L NILSON REVOCABLE TRUST	2201 EAST LN 59101
03092719321010000	B18	JEAN L NILSON REVOCABLE TRUST	
03092719321010000	B19	JEAN L NILSON REVOCABLE TRUST	
03113423410030000	C24	JEFFRIES, VALERIA A	5849 FREY RD 59079
03123703430010000	C64	JENSEN DAIRY, INC	
03113412415040000	C27	JENSEN, JAMES E & LEANNE R	7538 SPEAR DR 59079
03123523401010000	C48	JOHANNES, KENNETH J & JOLEEN M	
03123523401010000	C49	JOHANNES, KENNETH J & JOLEEN M	
03123523404010000	C49	JOHANNES, NOLAN & LINDA S	
03123523401110000	C48	JOHANNES, NORMAN NEAL & POLLY	
03123523401110000	C49	JOHANNES, NORMAN NEAL & POLLY	
03103407401010000	C11	JOHNSON LANE MATERIALS, LLC	
03103407401010000	C12	JOHNSON LANE MATERIALS, LLC	
03123524301010000	C49	JOHNSON, JON & KAREN	

Look-up by Owner Name

Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03133126302010000	C73	JOHNSON, RICHARD W	
03133126201010000	C74	JOHNSON, RICHARD W	
03133126302010000	C74	JOHNSON, RICHARD W	
03103326208378001	C03	JONASEN, RANDY L & GENA M	851 JOYCE CIR 59105
03123524401010000	C49	JONES, KELLY ANN	2537 W M RD 59088
03123524401200000	C49	JONES, KELLY ANN	
03123524401010000	C50	JONES, KELLY ANN	2537 W M RD 59088
03123524401200000	C50	JONES, KELLY ANN	
03113414110100000	C26	JONES, MARK & MARDELLA	6828 FREY RD 59079
03113506205350000	C31	JONES, STEPHEN E	EAGLE BEND BLVD 59079
03092711114240000	B40	JONES, STEPHEN W & TERESA KAY	15 BUENA VISTA AVE 59101
03113425208050000	C23	JORE, ERIC J & KATHERINE A	93 NORTHERN AVE 59037
03103326101060000	C03	JORGENSEN, FRED JR	505 LOMOND LN
03103326101060000	C04	JORGENSEN, FRED JR	505 LOMOND LN
03133218205010000	C76	JTL GROUP INC	
03092715110010000	B34	JTL GROUP INC A MT CORPORATION	3218 S FRONTAGE RD
03092715111010000	B34	JTL GROUP INC A MT CORPORATION	RIVERSIDE DR 59101
03092715110010000	B35	JTL GROUP INC A MT CORPORATION	3218 S FRONTAGE RD
03092715111010000	B35	JTL GROUP INC A MT CORPORATION	RIVERSIDE DR 59101
03143434401010000	C81	JUNCTION CITY RANCH COMPANY	
03143434401010000	C82	JUNCTION CITY RANCH COMPANY	
03143435105010000	C82	JUNCTION CITY RANCH COMPANY	
03143435301010000	C82	JUNCTION CITY RANCH COMPANY	
03143435105010000	C83	JUNCTION CITY RANCH COMPANY	
03143435301010000	C83	JUNCTION CITY RANCH COMPANY	
03123432106010000	C34	KANIA, BRUCE	
03123433216010000	C34	KANIA, BRUCE G	
03123428306010000	C35	KANIA, BRUCE G	SCANDIA RD 59079
03123428306100000	C35	KANIA, BRUCE G	SCANDIA RD 59079
03123433216010000	C35	KANIA, BRUCE G	
03123428306010000	C36	KANIA, BRUCE G	SCANDIA RD 59079
03123428306100000	C36	KANIA, BRUCE G	SCANDIA RD 59079
03113425115030000	C23	KARKI, HENRY	107 PERITSE AVE 59037
03092719103089044	B22	KAUFMAN, TERI S	1926 MULLOWNEY LN 59101
03103323409030000	C05	KEENEY, SEAN	1529 YELLOWSTONE RIVER R 59105
03133208211010000	C77	KEIL, EUGENE H & DEANNA C	
03133208211010000	C78	KEIL, EUGENE H & DEANNA C	
03133131101010000	C69	KELLER LAND & CATTLE CO	
03133129201010000	C70	KELLER LAND & CATTLE CO	
03133131101010000	C70	KELLER LAND & CATTLE CO	
03133129101010000	C70	KELLER LAND & CATTLE CO &	
03133129101010000	C71	KELLER LAND & CATTLE CO &	
03133132209010000	C70	KELLER LAND & CATTLE COMPANY	
03133128201010000	C71	KELLER LAND & CATTLE COMPANY	
03133128201010000	C72	KELLER LAND & CATTLE COMPANY	
03133133209010000	C71	KELLER LAND & CATTLE COMPANY &	
03123426201010000	C39	KEMBEL, ELMER & ELSIE J	
03123426201010000	C40	KEMBEL, ELMER & ELSIE J	
03133125309010000	C74	KEMPH FAMILY TRUST	
03133126409010000	C74	KEMPH FAMILY TRUST, JOHN & LOI	
03133133109010000	C71	KEMPH, JOE JR & KAREN	
03133133411010000	C71	KEMPH, JOE JR & KAREN	
03133133109010000	C72	KEMPH, JOE JR & KAREN	
03133134207010000	C72	KEMPH, JOE JR & KAREN	
03082122112030000	A03	KENNEDY, DANIEL L & DENISE A	MC MULLEN LN 59044
03082122112030000	A04	KENNEDY, DANIEL L & DENISE A	MC MULLEN LN 59044
03082122112030000	A05	KENNEDY, DANIEL L & DENISE A	MC MULLEN LN 59044
03113506205900000	C31	KESSEL, DEAN D &	8050 EAGLE BEND BLVD 59079

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03113506205900000	C32	KESSEL, DEAN D &	8050 EAGLE BEND BLVD 59079
03123620402040000	C52	KETTERLING, GERALDINE	2854 BUNDY RD 59088
03123620402040000	C53	KETTERLING, GERALDINE	2854 BUNDY RD 59088
03113414410030000	C25	KIELING, SHANE & JENNIFER	6230 SIGNAL POINT DR 59079
03113414410100000	C25	KIMBALL, CAROLINE A & ROBERT W	
03113414410100000	C26	KIMBALL, CAROLINE A & ROBERT W	
03092716103010000	B33	KING RIVER PARK LLC	1035 INTERMOUNTAIN ST
03092716103310000	B33	KING RIVER PARK LLC	3950 S FRONTAGE RD
03092716103410000	B33	KING RIVER PARK LLC	1030 INTERMOUNTAIN ST
03123432307010000	C32	KINGHORN, JOHN H & HATTIE	
03123432307010000	C33	KINGHORN, JOHN H & HATTIE	
03082113401010000	A14	KISLING, DAVID C	851 N RIVER RD 59044
03082113401020000	A14	KISLING, DAVID C	THIEL RD 59044
03082113401010000	A17	KISLING, DAVID C	851 N RIVER RD 59044
03092719103089013	B22	KISSLER, JEFFREY	1926 MULLOWNEY LN 59101
03092634305010000	B04	KLAMERT, GENE & RONNA	DUCK CREEK RD 59101
03092634305010000	B05	KLAMERT, GENE & RONNA	DUCK CREEK RD 59101
03092719101070000	B19	KLIER, ROGER	5846 STORY RD 59101
03092719101070000	B22	KLIER, ROGER	5846 STORY RD 59101
03103313460010000	C09	KOELZER, MATTHEW C	2015 BARRETT RD 59105
03103313460210000	C07	KOELZER, THOMAS C & MARY	BARRETT RD 59105
03103313460210000	C08	KOELZER, THOMAS C & MARY	BARRETT RD 59105
03103313460210000	C09	KOELZER, THOMAS C & MARY	BARRETT RD 59105
03123425216010000	C41	KRAGT, MICHAEL & TRACEY	2788 N 13TH RD 59088
03092711114150000	B40	KRANK, VICTOR G & CAROL S	123 BUENA VISTA AVE 59101
03123520107010000	C44	KROGER, EDGAR P & PATRICIA A	2936 N 18TH RD 59088
03123520107010000	C45	KROGER, EDGAR P & PATRICIA A	2936 N 18TH RD 59088
03092719103089038	B22	KUGLER, KEITH	1926 MULLOWNEY LN 59101
03123702305010000	C65	KUNTZ, E CODY & SUSAN F	
03123702401010000	C65	KUNTZ, E CODY & SUSAN F	
03123702401010000	C66	KUNTZ, E CODY & SUSAN F	
03133218111010000	C77	KUNTZ, MARGARET L	
03133208303010000	C78	KUNTZ, MARGARET L	
03103403203020000	C17	KUTT, GARY S	3819 BALD EAGLE BLVD 59037
03103324202609003	C06	KYLE, JOHN	6 CHERRY CREEK LOOP 59105
03082124117010000	A14	LABEAU, FREDERICK E	1419 N RIVER RD 59044
03103403203060000	C17	LAEMMLE, JOE M	5175 CREEKMORE RD 59037
03103403203080000	C17	LAEMMLE, JOE M	5165 CREEKMORE RD 59037
03113425115120000	C23	LAEMMLE, JOE M	
03113425213080000	C23	LAEMMLE, JOE M & ELLA C D	1578 NAHMIS AVE
03103324260560000	C07	LAMBRECHT, MIKE & ELAINE B	1765 RIVER VIEW DR 59105
03082122115100000	A03	LANCE, BILLIELOU B & STANLEY W	1422 LANCE LN 59044
03123432102010000	C33	LANGMAN, ARTHUR S	
03123432103010000	C33	LANGMAN, ARTHUR S	
03123432104010000	C33	LANGMAN, ARTHUR S	
03123432101010000	C34	LANGMAN, ARTHUR S	8416 SCANDIA RD 59079
03123432102010000	C34	LANGMAN, ARTHUR S	
03123432103010000	C34	LANGMAN, ARTHUR S	
03123432104010000	C34	LANGMAN, ARTHUR S	
03123432105010000	C34	LANGMAN, ARTHUR S	
03113506205200000	C30	LASALLE, DOUG H	7350 EAGLE BEND BLVD 59079
03103326208100000	C02	LATTIMER, JOHN C	609 CLAUSE CIR 59105
03103408101010000	C12	LC PROPERTIES, LLC	3553 COULSON RD 59101
03103408101010000	C13	LC PROPERTIES, LLC	3553 COULSON RD 59101
03103408190010000	C13	LC PROPERTIES, LLC	
03092720102500000	B25	LEE, DAWN N &	
03092720102500000	B26	LEE, DAWN N &	
03103326204110000	C03	LEE, DONALD R	BONNIE LN 59101

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03092719103089053	B22	LEMONS, CARL R	1926 MULLOWNEY LN 59101
03092719103089011	B22	LEWIS, PATTY D	1926 MULLOWNEY LN 59101
03143531301010000	C85	LICH, MELVIN & KAREN K	
03092719103089046	B22	LIESCH, BART	1926 MULLOWNEY LN 59101
03092634401010000	B05	LIMPP FAMILY LLC	3750 WISE LN 59101
03092634401010000	B06	LIMPP FAMILY LLC	3750 WISE LN 59101
03092634401010000	B07	LIMPP FAMILY LLC	3750 WISE LN 59101
03092719103089006	B22	LIND, STACY	1926 MULLOWNEY LN 59101
03092719103089028	B22	LIND, STACY	1926 MULLOWNEY LN 59101
03092711412010000	B37	LINDE, MARVIN E	547 GARDEN AVE 59101
03092711412010000	B38	LINDE, MARVIN E	547 GARDEN AVE 59101
03103326205030000	C02	LINDELL, MICHAEL P	507 BENCH BLVD 59105
03092719103089030	B22	LITTLEFIELD, JEREMY D	1926 MULLOWNEY LN 59101
03123520201010000	C44	LITTLER, MICHAEL D & HELEN S	2905 N 16TH RD 59088
03082113403030000	A14	LOCKIE, JOHN W & JANA L	MULEY MDWS 59044
03082113406010000	A14	LOCKIE, JOHN W & JANA L	1300 MULEY MDWS 59044
03082113406010000	A17	LOCKIE, JOHN W & JANA L	1300 MULEY MDWS 59044
03103334105050000	C01	LOCKWOOD AREA/YELLOWSTONE WATE	1 CERISE RD 59101
03103334103010000	B45	LOCKWOOD IRRIGATION DISTRICT	
03123520419010000	C45	LUCAS, JOHN E & MARY A	2902 N 18TH RD 59088
03103404307010000	C14	LUND, STEVEN R	
03103404307080000	C14	LUND, STEVEN R	
03103404307240000	C14	LUND, STEVEN R	
03103404101010000	C15	LUND, STEVEN R	
03103404104080000	C15	LUND, STEVEN R	
03103404307080000	C15	LUND, STEVEN R	
03103404307240000	C15	LUND, STEVEN R	
03103404411010000	C15	LUND, STEVEN R	
03103404411040000	C15	LUND, STEVEN R	
03103404104080000	C16	LUND, STEVEN R	
03103324202609095	C06	MACHLER, MICHAEL STEPHEN	34 LAPIN ST 59105
03113425208060000	C23	MACROW, VIRGINIA M &	95 NORTHERN AVE 59037
03123432404010000	C33	MAHAN, JOHN	
03113518111010000	C28	MAHAN, JOHN M	
03113425115040000	C23	MAHANA, DONALD E & MARIE S	109 PERITSE AVE 59037
03103326308020000	C02	MAKEEFF, TERRY A & JULIE D	1035 ISLAND PARK RD
03103324260590000	C07	MAKINEN, BRAD T	
03103324202609018	C06	MANN, JOHN E	14 VANDALAY ST 59105
03092626104040000	B13	MARCHWINSKI, DANIEL J & TRACI	2700 GOODMAN RD 59101
03133203201010000	C79	MARLO LAND & LIVESTOCK CO	
03133204101010000	C79	MARLO LAND & LIVESTOCK CO	7926 BUFFALO CREEK RD 59024
03133203201010000	C80	MARLO LAND & LIVESTOCK CO	
03133204101010000	C80	MARLO LAND & LIVESTOCK CO	7926 BUFFALO CREEK RD 59024
03133203201010000	C81	MARLO LAND & LIVESTOCK CO	
03092715113010000	B35	MARTE M NELSON TRUST	
03092715113020000	B35	MARTE M NELSON TRUST	
03092715113030000	B35	MARTE M NELSON TRUST	
03092715114010000	B35	MARTE M NELSON TRUST	
03092715114020000	B35	MARTE M NELSON TRUST	1102 RIVERSIDE DR 59101
03092719113020000	B22	MARTIN PROPERTIES INC	
03092719113030000	B22	MARTIN PROPERTIES INC	5623 STORY RD
03103327106070000	C02	MARTIN, MATT	440 BENCH BLVD 59105
03092719103089023	B22	MARTINEZ, JOSE JR	1926 MULLOWNEY LN 59101
03113425114200000	C23	MARTINSON, CATHY N	1541 SHOPIS AVE 59037
03113412106150000	C27	MARTINSON, EDDY G & SHARON ANN	7625 SPEAR DR 59079
03092719110010000	B19	MASBRUCH, DENNIS R	
03092719110020000	B19	MASBRUCH, DENNIS R	
03092719110010000	B22	MASBRUCH, DENNIS R	

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03092719110020000	B22	MASBRUCH, DENNIS R	
03092719111010000	B22	MASBRUCH, DENNIS R	
03092719111020000	B22	MASBRUCH, DENNIS R	
03092719111030000	B22	MASBRUCH, DENNIS R	
03103418301010000	C08	MAURITZSON, MARK W	
03103418301010000	C09	MAURITZSON, MARK W	
03103418301200000	C09	MAURITZSON, MARK W	
03082113107010000	A17	MCBURNEY, SCOTT DOUGLAS & SUE	651 N RIVER RD 59044
03082113107040000	A17	MCBURNEY, SCOTT DOUGLAS & SUE	
03082113107010000	A18	MCBURNEY, SCOTT DOUGLAS & SUE	651 N RIVER RD 59044
03082113107040000	A18	MCBURNEY, SCOTT DOUGLAS & SUE	
03082113107040000	A19	MCBURNEY, SCOTT DOUGLAS & SUE	
03092720206370000	B23	MCCALL DEVELOPMENT INC	
03092720206390000	B23	MCCALL DEVELOPMENT INC	
03092720206390000	B24	MCCALL DEVELOPMENT INC	
03092720206370000	B27	MCCALL DEVELOPMENT INC	
03092720206390000	B27	MCCALL DEVELOPMENT INC	
03103323401020000	C04	MCDANEL, EVELYN M	1254 YELLOWSTONE RIVER R 59105
03133127117010000	C72	MCINTOSH, J K ADMR	
03133122304010000	C73	MCINTOSH, J K ADMR	
03133127117010000	C73	MCINTOSH, J K ADMR	
03133122304010000	C74	MCINTOSH, J K ADMR	
03133127117010000	C74	MCINTOSH, J K ADMR	
03103326208370000	C03	MCKEEN, JERRY	851 JOYCE CIR 59105
03082204209010000	A28	MCKELVIE, LOUISE H	4104 DUCK CREEK RD 59101
03082204209010000	A29	MCKELVIE, LOUISE H	4104 DUCK CREEK RD 59101
03082203213010000	B02	MCKELVIE, LOUISE H	
03082203213010000	B03	MCKELVIE, LOUISE H	
03082203215010000	B04	MCKELVIE, LOUISE H	
03082204209010000	B04	MCKELVIE, LOUISE H	4104 DUCK CREEK RD 59101
03082203213010000	B05	MCKELVIE, LOUISE H	
03082203215010000	B05	MCKELVIE, LOUISE H	
03082203213010000	B06	MCKELVIE, LOUISE H	
03103408403180000	C13	MCNANEY, DON D & CATHERINE C	
03103327106200000	C02	MCNEIL, JOHN D & VERANICA RAI	412 BENCH BLVD 59105
03113412301150000	C26	MCSWEYN, ROBERT & PEGGY D TRUS	6617 YEOMAN RD 59079
03113412301200000	C26	MCSWEYN, ROBERT & PEGGY D TRUS	
03092721206010000	B29	MEDINA, DOUG	
03092721206010000	B30	MEDINA, DOUG	
03092716430010000	B29	MEDINA, DOUGLAS A	
03092716430010000	B30	MEDINA, DOUGLAS A	
03092716430010000	B31	MEDINA, DOUGLAS A	
03103405201010000	C13	MICHAEL LAND INC	3502 DOVER RD 59105
03103405201010000	C14	MICHAEL LAND INC	3502 DOVER RD 59105
03113507206010000	C29	MICHUNOVICH, MARKO J	
03113507206010000	C30	MICHUNOVICH, MARKO J	
03123709205010000	C62	MILL CREEK FARM INC	
03123709205010000	C63	MILL CREEK FARM INC	
03092716205010000	B28	MILLER TROIS LLC	7057 S BILLINGS BLVD 59101
03092716418020000	B31	MILLER TROIS LLC	
03092716418020000	B33	MILLER TROIS LLC	
03123431401250000	C31	MITCHELL, JOY LA MAE	
03123431406010000	C31	MITCHELL, JOY LA MAE	
03123431401250000	C32	MITCHELL, JOY LA MAE	
03123431406010000	C32	MITCHELL, JOY LA MAE	
03123431406070000	C32	MITCHELL, JOY LA MAE	8802 BARTON PL 59079
03123517101010000	C44	MONTANA DEPARTMENT OF FISH, WI	
03123517101010000	C45	MONTANA DEPARTMENT OF FISH, WI	

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03123521111010000	C45	MONTANA DEPARTMENT OF FISH, WI	
03123515101010000	C46	MONTANA DEPARTMENT OF FISH, WI	
03123521111010000	C46	MONTANA DEPARTMENT OF FISH, WI	
03123515101010000	C47	MONTANA DEPARTMENT OF FISH, WI	
03123521111010000	C47	MONTANA DEPARTMENT OF FISH, WI	
03123514101010000	C48	MONTANA DEPARTMENT OF FISH, WI	
03123515101010000	C48	MONTANA DEPARTMENT OF FISH, WI	
03123523101010000	C48	MONTANA DEPARTMENT OF FISH, WI	BOZEMAN TRAIL RD 59088
03123513201010000	C49	MONTANA DEPARTMENT OF FISH, WI	
03123514101010000	C49	MONTANA DEPARTMENT OF FISH, WI	
03123523101010000	C49	MONTANA DEPARTMENT OF FISH, WI	BOZEMAN TRAIL RD 59088
03123513201010000	C50	MONTANA DEPARTMENT OF FISH, WI	
03103326206030000	C03	MONTANA DEPARTMENT OF HIGHWAYS	
03133126203020000	C73	MONTANA DEPT OF FISH, WILDLIFE	
03133126203020000	C74	MONTANA DEPT OF FISH, WILDLIFE	
03113413302010000	C23	MONTANA DEPT OF STATE LANDS	
03113413302010000	C24	MONTANA DEPT OF STATE LANDS	
03113413301010000	C25	MONTANA DEPT OF STATE LANDS	
03113413302010000	C25	MONTANA DEPT OF STATE LANDS	
03113413302010000	C26	MONTANA DEPT OF STATE LANDS	
03113413301010000	C28	MONTANA DEPT OF STATE LANDS	
03113413302010000	C28	MONTANA DEPT OF STATE LANDS	
03092716412030000	B31	MONTANA GENERAL CORPORATION	3855 OLD BLUE CREEK RD 59101
03123431406150000	C32	MONTANA LAND DISTRIBUTION LLC	
03103408470010000	C13	MONTANA RAIL LINK	COULSON RD
03123519101010000	C43	MOORE, CARL T & MELBOURNE A	
03123519204010000	C42	MOORE, KENNETH RAY &	
03123519204010000	C43	MOORE, KENNETH RAY &	
03113414415020000	C25	MUHLBEIER, LESTER L & CAROLYN	OSNESS RD 59079
03113414415020000	C26	MUHLBEIER, LESTER L & CAROLYN	OSNESS RD 59079
03113414415040000	C26	MUHLBEIER, LESTER L & CAROLYN	6336 OSNESS RD 59079
03113414415050000	C26	MUHLBEIER, LESTER L & CAROLYN	FREY RD 59079
03113414415070000	C26	MUHLBEIER, LESTER L & CAROLYN	FREY RD 59079
03103326205010000	C02	MUNOZ, LARRY & SONYA C	445 BENCH BLVD 59105
03103327108040000	C02	MYERS, KEITH	506 BENCH BLVD 59105
03113414413040000	C25	MYHRE, JUSTIN R & LYNN R	6227 SIGNAL POINT DR 59079
03133203290100000	C80	MYHRE, MICHAEL J S & DIXIE D &	
03133203290150000	C80	MYHRE, MICHAEL J S & DIXIE D &	8110 BUFFALO CREEK RD 59024
03133203290300000	C80	MYHRE, MICHAEL J S & DIXIE D &	
03133203290500000	C80	MYHRE, MICHAEL J S & DIXIE D &	
03143521101010000	C88	NANSEL, DONALD L & DOROTHY B	
03143521201010000	C88	NANSEL, DONALD L & DOROTHY B	
03092625203300000	B13	NEILL, MARIAN H	2645 GOODMAN RD 59101
03092625203300000	B14	NEILL, MARIAN H	2645 GOODMAN RD 59101
03103326301300000	C01	NELSON, KELLY C	140 CERISE RD 59101
03103326307020000	C01	NELSON, KELLY C	ISLAND PARK RD 59101
03103326307030000	C01	NELSON, KELLY C	80 CERISE RD 59101
03103326307020000	C02	NELSON, KELLY C	ISLAND PARK RD 59101
03103326307030000	C02	NELSON, KELLY C	80 CERISE RD 59101
03092711114200000	B40	NICHOLS, RITA F	45 BUENA VISTA AVE 59101
03092719103089049	B22	NIELSEN, MORRIS	1926 MULLOWNEY LN 59101
03092719103089007	B22	NIELSEN, MORRIS JR	1926 MULLOWNEY LN 59101
03092719103089016	B22	NIELSEN, MORRIS JR	1926 MULLOWNEY LN 59101
03092719103089017	B22	NIELSEN, MORRIS JR	1966 MULLOWNEY LN 59101
03092719103089014	B22	NIELSEN, MORRIS JR	1926 MULLOWNEY LN 59101
03092719103089020	B22	NIELSEN, MORRIS JR	1926 MULLOWNEY LN 59101
03092719103089025	B22	NIELSEN, MORRIS JR	1926 MULLOWNEY LN 59101
03092719103089047	B22	NIELSEN, MORRIS JR	1926 MULLOWNEY LN 59101

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03092719103089048	B22	NIELSEN, MORRIS JR	1926 MULLOWNEY LN 59101
03092719103089051	B22	NIELSEN, MORRIS JR	1926 MULLOWNEY LN 59101
03092719103089036	B22	NIELSEN, MORRIS MOLLER JR	1926 MULLOWNEY LN 59101
03092719103089050	B22	NIELSEN, MORRIS MOLLER JR	1926 MULLOWNEY LN 59101
03092719103089037	B22	NIELSON, MORRIS JR	1926 MULLOWNEY LN 59101
03123525214010000	C49	NIKITSCHENKO, MARY JANE	2770 N 25TH RD 59088
03092719302010000	B16	NILSON, HENRY W	2201 EAST LN 59101
03092719302010000	B17	NILSON, HENRY W	2201 EAST LN 59101
03092719302010000	B18	NILSON, HENRY W	2201 EAST LN 59101
03092719317010000	B18	NILSON, HENRY W	
03092719317010000	B19	NILSON, HENRY W	
03103326205050000	C02	NIXON, SALLY A	519 BENCH BLVD 59105
03133209301010000	C78	NOSER FAMILY TRUST	6680 CUSTER FRONTAGE RD 59024
03103326208090000	C02	NOTTINGHAM, GLENNIS	605 CLAUSE CIR 59105
03113425205030000	C22	OBLANDER, ROGER S	68 NORTHERN AVE 59037
03123616101010000	C53	OBLENDER, KENT	
03123621110010000	C53	OBLENDER, KENT	
03123616101010000	C54	OBLENDER, KENT	
03123621110010000	C54	OBLENDER, KENT	
03123617401010000	C53	OBLENDER, KENT A & TRACI L	3041 BUNDY RD 59088
03123622103010000	C55	OBLENDER, WILBUR A & LORETTA J	
03123622406010000	C55	OBLENDER, WILBUR A & LORETTA J	
03123623315010000	C55	OBLENDER, WILBUR A & LORETTA J	
03123623315010000	C56	OBLENDER, WILBUR A & LORETTA J	
03123623320040000	C56	OBLENDER, WILBUR A & LORETTA J	
03123623320070000	C56	OBLENDER, WILBUR A & LORETTA J	
03123623320140000	C56	OBLENDER, WILBUR A & LORETTA J	
03103404301010000	C14	O'DONNELL LIVESTOCK & RANCH CO	
03103409201010000	C14	O'DONNELL LIVESTOCK & RANCH CO	
03092711402010000	B37	O'LEARY, BARRY INC	
03092711402010000	B38	O'LEARY, BARRY INC	
03092711101010000	B39	O'LEARY, BARRY INC	
03092711402010000	B39	O'LEARY, BARRY INC	
03092711101010000	B40	O'LEARY, BARRY INC	
03092712201010000	B40	O'LEARY, BARRY INC	
03103326205090000	C02	OLHEISER, EUGENE P & BRENDA I	603 BENCH BLVD 59105
03103326205100000	C02	OLHEISER, EUGENE P & BRENDA I	609 BENCH BLVD 59105
03103326205100000	C03	OLHEISER, EUGENE P & BRENDA I	609 BENCH BLVD 59105
03133127301010000	C72	OLSON, NANCY K TRUSTEE	5653 CUSTER FRONTAGE RD 59024
03133128404010000	C72	OLSON, NANCY K TRUSTEE	
03133134211010000	C72	OLSON, NANCY K TRUSTEE	5653 CUSTER FRONTAGE RD 59024
03133127104010000	C73	OLSON, NANCY K TRUSTEE	
03133127301010000	C73	OLSON, NANCY K TRUSTEE	5653 CUSTER FRONTAGE RD 59024
03133134211010000	C73	OLSON, NANCY K TRUSTEE	5653 CUSTER FRONTAGE RD 59024
03113424201010000	C24	O'NEILL, TERRENCE M	FREY RD 59079
03113424201010000	C25	O'NEILL, TERRENCE M	FREY RD 59079
03103324210300000	C05	OSTERMILLER, ROGER & SHELLEY	1155 BITTEROOT DR 59105
03123521204020000	C45	PARKS, LANCE K	N 19TH RD 59088
03123521316010000	C45	PARKS, LANCE K	
03123521204020000	C46	PARKS, LANCE K	N 19TH RD 59088
03123521316010000	C46	PARKS, LANCE K	
03092721202020000	B29	PARRISH, JAN	4404 OLD BLUE CREEK RD
03092721202010000	B28	PARRISH, JAN R	
03092721202010000	B29	PARRISH, JAN R	
03092721202010000	B30	PARRISH, JAN R	
03123906101010000	C67	PATTERSON LAND & LIVESTOCK CO	
03123906101010000	C68	PATTERSON LAND & LIVESTOCK CO	
03123905101010000	C69	PATTERSON LAND & LIVESTOCK CO	

Look-up by Owner Name

Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03123906101010000	C69	PATTERSON LAND & LIVESTOCK CO	
03133131401010000	C69	PATTERSON LAND & LIVESTOCK CO	
03133132307010000	C69	PATTERSON LAND & LIVESTOCK CO	
03133132307010000	C70	PATTERSON LAND & LIVESTOCK CO	
03133132307010000	C71	PATTERSON LAND & LIVESTOCK CO	
03133133401010000	C71	PATTERSON LAND & LIVESTOCK CO	
03133133401010000	C72	PATTERSON LAND & LIVESTOCK CO	
03092625205120000	B14	PATTERSON, MERIDEE A	7000 WHITETAIL LN 59101
03092719103059002	B22	PATTERSON, NORMAN B	1920 MULLOWNEY LN 59101
03092719103089029	B22	PATTON, JEREMY	1926 MULLOWNEY LN 59101
03103324202609010	C06	PAULSON, LYNETTE E	3 VANDALAY ST 59105
03092721201010000	B28	PCC INC	
03092721150010000	B29	PCC INC	
03092721150010000	B30	PCC INC	
03092721150010000	B31	PCC INC	
03113425115010000	C23	PETERSON, JOHN A	103 PERITSE AVE 59037
03113425115130000	C23	PETERSON, JOHN A	
03113425213070000	C23	PETERSON, JOHN A	
03123424404010000	C42	PETERSON, KEVIN D & AMY JO	
03123424404210000	C42	PETERSON, KEVIN D & AMY JO	2870 N 14TH RD 59088
03113425115100000	C23	PETERSON, KRUEGER, KIMBERLY EL	1572 NAHMIS AVE 59037
03113425115110000	C23	PETERSON, KRUEGER, KIMBERLY EL	NAHMIS AVE 59037
03113424420140000	C23	PETRIE, MARTIN B	125 3RD ST N 59037
03113424420140000	C28	PETRIE, MARTIN B	125 3RD ST N 59037
03123708101010000	C60	PIERCE, ROBERT L & GLADYS J	
03123708101010000	C61	PIERCE, ROBERT L & GLADYS J	
03092715114030000	B35	PIPPIN, DONALD H & NORMAJEAN	1036 RIVERSIDE DR 59101
03103326301020000	C01	PONDEROSA PROPERTIES LLC	803 CERISE RD
03113414410020000	C25	POWELL, DAMON R	6220 SIGNAL POINT DR 59079
03103324202609062	C06	PRETTY PAINT, VICTOR R JR &	22 SKEENA ST 59105
03103326208380000	C03	PRICE, ALICE B & FRED L	847 JOYCE CIR 59105
03092719101170000	B19	PROULX, EDWARD R TRUSTEE (ETAL	STORY RD 59101
03103324202609065	C06	PUGLIESE, THERALL	27 LAPIN ST 59105
03123520311010000	C44	PUKALL, LLOYD R & DONNA R	N 16TH RD 59088
03103324202609063	C06	RACINE, TESSA	24 SKEENA ST 59105
03103323409060000	C05	RANGITSCH, EDWIN D	1517 YELLOWSTONE RIVER R 59105
03103323409070000	C05	RANGITSCH, EDWIN D	1517 YELLOWSTONE RIVER R 59105
03113423104010000	C24	RAUSCH, KEITH A	6125 FREY RD 59079
03103326208390000	C03	REA, AARON L	843 JOYCE CIR 59105
03103326302010000	C01	RED CASTLE ENTERPRISES, LLC	CERISE RD
03092719103089027	B22	REINTSMA, MARIAN	1926 MULLOWNEY LN 59101
03082205104010000	A27	REITER FAMILY 1994 LIVING TRUS	4332 DUSTIN RD 59101
03123519414100000	C43	RESER, RICHARD B & LOLA MAE	2868 N 16TH RD 59088
03123519414100000	C44	RESER, RICHARD B & LOLA MAE	2868 N 16TH RD 59088
03092719103050000	B22	RESTAD, JAMES W & BRUCE F	1920 MULLOWNEY LN 59101
03113412106010000	C27	REYER, DANIEL L & ARDYS L	PINTO DR 59079
03113412403010000	C27	REYER, DANIEL L & ARDYS L	PINTO DR 59079
03082205302010000	A25	RICHARD C & BETTY Z CHRISTENSE	CHRISTENSEN RD 59101
03082205302010000	A26	RICHARD C & BETTY Z CHRISTENSE	CHRISTENSEN RD 59101
03113412415030000	C27	RIPLEY, J MICHAEL & JANICE L	7505 BUCKSKIN DR 59079
03113412415010000	C27	RIPLEY, JAMES MICHAEL & JANICE	BUCKSKIN DR 59079
03123433104010000	C35	RIVERVIEW RANCH & FEEDLOT CORP	2510 N 8TH RD 59037
03123427301010000	C36	RIVERVIEW RANCH & FEEDLOT CORP	
03123427311010000	C36	RIVERVIEW RANCH & FEEDLOT CORP	
03123428407010000	C36	RIVERVIEW RANCH & FEEDLOT CORP	
03123433104010000	C36	RIVERVIEW RANCH & FEEDLOT CORP	2510 N 8TH RD 59037
03123434211010000	C36	RIVERVIEW RANCH & FEEDLOT CORP	
03123427311010000	C37	RIVERVIEW RANCH & FEEDLOT CORP	

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03113413101030000	C25	ROBBINS, PAUL E	
03113413101030000	C26	ROBBINS, PAUL E	
03113413201050000	C26	ROBBINS, PAUL E	
03113413201070000	C26	ROBBINS, PAUL E	6442 YEOMAN RD 59079
03113413101030000	C28	ROBBINS, PAUL E	
03123519107010000	C43	ROBERTSON, DAVID R & CHU MANN	2904 N 16TH RD 59088
03123519107010000	C44	ROBERTSON, DAVID R & CHU MANN	2904 N 16TH RD 59088
03123718401010000	C58	ROBINSON, ALLEN & SANDY	
03103323401070000	C04	ROCH, KENNETH A & CECILIA A R	1326 YELLOWSTONE RIVER R 59105
03113507201040000	C27	ROLLINS, MYRON B & ERMA S	PINTO DR 59079
03113507201040000	C29	ROLLINS, MYRON B & ERMA S	PINTO DR 59079
03092720210010000	B22	ROMAN CATHOLIC BISHOP OF GT FA	
03092720210010000	B23	ROMAN CATHOLIC BISHOP OF GT FA	
03103323401060000	C04	ROMERO, LLOYD B	1320 YELLOWSTONE RIVER R 59105
03133207303010000	C76	ROSH, ELIZABETH M	
03133218203010000	C76	ROSH, ELIZABETH M	
03133218207010000	C76	ROSH, ELIZABETH M	6255 FRONTAGE RD 59024
03133207303010000	C77	ROSH, ELIZABETH M	
03133218203010000	C77	ROSH, ELIZABETH M	
03113414415010000	C25	ROSS, BETTY L	6353 OSNESS RD 59079
03113414415010000	C26	ROSS, BETTY L	6353 OSNESS RD 59079
03113414415100000	C25	ROSS, BETTY L & MINDI J	OSNESS RD 59079
03123519213010000	C42	ROWE, WILLIAM JAMES & ANNIE J	
03123519213010000	C43	ROWE, WILLIAM JAMES & ANNIE J	
03123513101010000	C50	ROWE, WILLIAM JAMES & ANNIE J	2555 BOZEMAN TRL 59088
03123618101010000	C50	ROWE, WILLIAM JAMES & ANNIE J	2678 BOZEMAN TRL 59088
03123619206010000	C50	ROWE, WILLIAM JAMES & ANNIE J	
03123618101010000	C51	ROWE, WILLIAM JAMES & ANNIE J	2678 BOZEMAN TRL 59088
03123619206010000	C51	ROWE, WILLIAM JAMES & ANNIE J	
03082205416010000	A27	RUDIO, CHRISTIAN H & RUTH CO-T	
03082205416010000	A28	RUDIO, CHRISTIAN H & RUTH CO-T	
03082204217010000	A28	RUDIO, GERALD W & MARIETTA M	9220 RUDIO RD 59101
03082204205010000	A27	RUDIO, RUTH & CHRISTAIN HCO-TR	4249 S 56TH ST W 59101
03082204205010000	A28	RUDIO, RUTH & CHRISTAIN HCO-TR	4249 S 56TH ST W 59101
03082204205010000	A29	RUDIO, RUTH & CHRISTAIN HCO-TR	4249 S 56TH ST W 59101
03133124103010000	C75	RUFF INC	
03133124404010000	C75	RUFF INC	
03133113407010000	C76	RUFF INC	
03133124103010000	C76	RUFF INC	
03133218201010000	C76	RUFF INC	
03133218301010000	C76	RUFF INC	6292 CUSTER FRONTAGE RD 59024
03143531104010000	C86	RUFF INC A MT CORPORATION	
03143532201010000	C86	RUFF INC A MT CORPORATION	
03143532201010000	C87	RUFF INC A MT CORPORATION	
03143435404010000	C83	RUFF, GARY & DELLA	4854 MUSSELLSHELL TRAIL 59024
03143435404010000	C84	RUFF, GARY & DELLA	4854 MUSSELLSHELL TRAIL 59024
03143436301010000	C84	RUFF, GARY & DELLA	
03143436301010000	C85	RUFF, GARY & DELLA	
03133202201010000	C80	RUFF, SCOTT	
03133202201010000	C81	RUFF, SCOTT	
03143434301010000	C81	RUFF, SCOTT & ANNETTE	
03092625203010000	B13	RUKSTAD, BRUCE L & DIANA L	
03092625203010000	B14	RUKSTAD, BRUCE L & DIANA L	
03082207404010000	A21	RUTH A TERRY REVOCABLE TRUST	4115 RIVER RD 59044
03082207404010000	A22	RUTH A TERRY REVOCABLE TRUST	4115 RIVER RD 59044
03082207404010000	A23	RUTH A TERRY REVOCABLE TRUST	4115 RIVER RD 59044
03103324260530000	C07	SALSBURY, WAYNE E & YVONNE E	1745 RIVERVIEW DR 59105
03123624306010000	C57	SAN ISIDORE & CO INC A MT CORP	2879 S 37TH RD 59064

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03123424404610000	C42	SANDVICK, DYLAN E	
03113412403110000	C27	SANNES, RONALD R SR & LINDA D	7525 SPEAR DR 59079
03103324202609096	C06	SAUNDERS, BRYCE LANE	35 JUBILEE ST 59105
03123424410010000	C42	SCHMIDT, PHIL W	2891 N 13TH RD 59088
03123524101010000	C50	SCHMIEDING, KELLY ANN	
03143530401010000	C86	SCHNACK, GLADYS &	
03113414115010000	C26	SCHNOOR, MIKE	6942 FREY RD 59079
03103404201010000	C14	SCHROEDER & MICHAEL INC	
03103405101030000	C14	SCHROEDER & MICHAEL INC	3900 DOVER RD 59105
03103404201010000	C15	SCHROEDER & MICHAEL INC	
03103324202609040	C06	SCHWINDT, CHRISTOPHER LEE & HE	23 SKEENA ST 59105
03103324260220000	C07	SCOTT, LEEZA & BRETT &	1975 OUTLOOK DR 59105
03113412106030000	C27	SEATON, JAMES M &	7610 PINTO DR 59079
03123521416010000	C46	SEDER, HARRY & ANNE D	
03123522306010000	C46	SEDER, HARRY & ANNE D	
03123522311010000	C46	SEDER, HARRY & ANNE D	
03123522306010000	C47	SEDER, HARRY & ANNE D	
03123522311010000	C47	SEDER, HARRY & ANNE D	
03123522411010000	C47	SEDER, HARRY & ANNE D	
03123522306010000	C48	SEDER, HARRY & ANNE D	
03123522411010000	C48	SEDER, HARRY & ANNE D	
03123523301010000	C48	SEDER, HARRY & ANNE D	
03123523303010000	C48	SEDER, HARRY & ANNE D	
03082124219010000	A08	SEVERIN, RANDAL J & STANLEY D	THIEL RD 59044
03082124219010000	A10	SEVERIN, RANDAL J & STANLEY D	THIEL RD 59044
03082124219010000	A12	SEVERIN, RANDAL J & STANLEY D	THIEL RD 59044
03082124219010000	A13	SEVERIN, RANDAL J & STANLEY D	THIEL RD 59044
03082124219010000	A14	SEVERIN, RANDAL J & STANLEY D	THIEL RD 59044
03082124219010000	A15	SEVERIN, RANDAL J & STANLEY D	THIEL RD 59044
03113507201010000	C27	SHANNON, DAVID W & VICKI L	PINTO DR 59079
03113507201010000	C29	SHANNON, DAVID W & VICKI L	PINTO DR 59079
03113412106160000	C27	SHARP, WILLIAM J	7609 SPEAR DR 59079
03113425208020000	C22	SHELDON, RAY W & JOYCE	81 NORTHERN AVE 59037
03113425208020000	C23	SHELDON, RAY W & JOYCE	81 NORTHERN AVE 59037
03113425208010000	C22	SHELDON, RAY W & JOYCE R	NORTHERN AVE 59037
03113425208010000	C23	SHELDON, RAY W & JOYCE R	NORTHERN AVE 59037
03123428101010000	C36	SHELHAMER, LLOYD JR & LINDA K	10115 CABIN CREEK RD 59079
03123427201020000	C37	SHELHAMER, LLOYD JR & LINDA K	
03123428101010000	C37	SHELHAMER, LLOYD JR & LINDA K	10115 CABIN CREEK RD 59079
03123422101010000	C38	SHELHAMER, LLOYD JR & LINDA K	
03123427201020000	C38	SHELHAMER, LLOYD JR & LINDA K	
03123422101010000	C39	SHELHAMER, LLOYD JR & LINDA K	
03123423101010000	C39	SHELHAMER, LLOYD JR & LINDA K	
03123427201020000	C39	SHELHAMER, LLOYD JR & LINDA K	
03123423101010000	C40	SHELHAMER, LLOYD JR & LINDA K	
03123423101010000	C41	SHELHAMER, LLOYD JR & LINDA K	
03123424201010000	C41	SHELHAMER, LLOYD JR & LINDA K	
03123424201010000	C42	SHELHAMER, LLOYD JR & LINDA K	
03123413101010000	C43	SHELHAMER, LLOYD JR & LINDA K	
03123433314010000	C34	SHERMAN, FLORIAN R JR & SANDRA	2454 N 7TH RD 59037
03123433314010000	C35	SHERMAN, FLORIAN R JR & SANDRA	2454 N 7TH RD 59037
03123433314200000	C35	SHERMAN, FLORIAN R JR & SANDRA	
03113425210030000	C23	SHERMAN, MARY JO	87 PERITSE AVE 59037
03113425213030000	C23	SHERMAN, MARY JO	
03103323409010000	C05	SHERNER, JONATHAN L & TRACEY J	
03103323409020000	C05	SHERNER, JONATHAN L & TRACEY J	1535 YELLOWSTONE RIVER R 59105
03123622307010000	C54	SHERRODD, GARY E & PATTY ANN	
03123622307010000	C55	SHERRODD, GARY E & PATTY ANN	

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03092711114170000	B40	SHUPAK, STEVE	103 BUENA VISTA AVE 59101
03123709105010000	C63	SIAN, HERMAN & JOY M (AKA) JOY	
03123710201010000	C63	SIAN, HERMAN & JOY M (AKA) JOY	
03123710205010000	C63	SIAN, HERMAN & JOY M (AKA) JOY	
03123710205010000	C64	SIAN, HERMAN & JOY M (AKA) JOY	
03123702201100000	C64	SIAN, STEVEN P & LORRI	
03123702301010000	C64	SIAN, STEVEN P & LORRI	
03123702201100000	C65	SIAN, STEVEN P & LORRI	
03123702301010000	C65	SIAN, STEVEN P & LORRI	
03103408290010000	C12	SINDELAR, JAMES H	3114 DOVER RD 59105
03103408290010000	C13	SINDELAR, JAMES H	3114 DOVER RD 59105
03103408290010000	C14	SINDELAR, JAMES H	3114 DOVER RD 59105
03123521201010000	C45	SJOLSETH, SHERYL A & DEAN	2901 N 18TH RD 59088
03143533201010000	C87	SJOSTROM, MELVIN J	
03143533201010000	C88	SJOSTROM, MELVIN J	
03143528301010000	C87	SJOSTROM, MELVIN J & ALICE M	
03143528301010000	C88	SJOSTROM, MELVIN J & ALICE M	
03143531307010000	C85	SJOSTRUM, MELVIN & ALICE	
03143531307010000	C86	SJOSTRUM, MELVIN & ALICE	
03113507305030000	C27	SLUSHER, MONTIE B	
03113507305030000	C28	SLUSHER, MONTIE B	
03113507305030000	C29	SLUSHER, MONTIE B	
03082204214010000	A28	SMITH, BARBARA A	9240 RUDIO RD 59101
03092719103089052	B22	SMITH, BONNIE R	1926 MULLOWNEY LN 59101
03082113403010000	A14	SMITH, CHRIS C & CHRISTY V	1389 N RIVER RD 59044
03103324202609094	C06	SMITH, DARRELL & RANDY	32 LAPIN ST 59105
03092715301020000	B32	SNOOZY, MARK P	3403 OLD BLUE CREEK RD 59101
03092715301020000	B34	SNOOZY, MARK P	3403 OLD BLUE CREEK RD 59101
03103327104050000	C02	SPARROW, KEVIN A & TERI J	376 BENCH BLVD 59105
03123701401400000	C66	SPORT MONTANA LLC	
03123701401600000	C66	SPORT MONTANA LLC	
03123701401700000	C66	SPORT MONTANA LLC	
03123701401400000	C67	SPORT MONTANA LLC	
03123701401600000	C67	SPORT MONTANA LLC	
03123701401700000	C67	SPORT MONTANA LLC	
03123701401750000	C67	SPORT MONTANA LLC	
03123701401800000	C67	SPORT MONTANA LLC	
03123701401800000	C68	SPORT MONTANA LLC	
03113425119010000	C23	SPORTMAN'S CONSERVATION CLUB	
03113424401010000	C23	SPORTSMAN'S CONSERV CLUB OF HU	
03113424402010000	C23	SPORTSMAN'S CONSERV CLUB OF HU	
03143531101010000	C85	ST JOHN, EDGAR E & RUTH A	
03143529301010000	C86	ST JOHN, EDGAR E & RUTH A	
03143530403010000	C86	ST JOHN, EDGAR E & RUTH A	
03143531101010000	C86	ST JOHN, EDGAR E & RUTH A	
03143532401010000	C86	ST JOHN, EDGAR E & RUTH A	
03143529301010000	C87	ST JOHN, EDGAR E & RUTH A	
03143532401010000	C87	ST JOHN, EDGAR E & RUTH A	
03143531112010000	C86	ST JOHN, EDGAR E & RUTH A &	
03092720175010000	B24	ST OF MONTANA DEPT OF STATE LA	
03092720175010000	B25	ST OF MONTANA DEPT OF STATE LA	
03092720175010000	B26	ST OF MONTANA DEPT OF STATE LA	
03092720175010000	B27	ST OF MONTANA DEPT OF STATE LA	
03103408403140000	C13	STANHOPE, CLYDE R	
03103408403170000	C13	STANHOPE, CLYDE R	
03103408403200000	C13	STANHOPE, CLYDE R	2931 WATSON RD 59101
03103408403200000	C14	STANHOPE, CLYDE R	2931 WATSON RD 59101
03082204319030000	A28	STARR, JUDITH L	

Look-up by Owner Name

Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03092625207010000	B14	STARR, WILLIAM J & CAROL A	6868 WHITETAIL LN 59101
03092625207120000	B14	STARR, WILLIAM J & CAROL A	WHITETAIL LN 59101
03092625207120000	B15	STARR, WILLIAM J & CAROL A	WHITETAIL LN 59101
03092625208120000	B15	STARR, WILLIAM J & CAROL A	WHITETAIL LN 59101
03082113303010000	A10	STATE OF MONTANA	
03082113303010000	A12	STATE OF MONTANA	
03082113303010000	A13	STATE OF MONTANA	
03082113303010000	A14	STATE OF MONTANA	
03082113303010000	A15	STATE OF MONTANA	
03082113303010000	A16	STATE OF MONTANA	
03082113303010000	A17	STATE OF MONTANA	
03082113303010000	A18	STATE OF MONTANA	
03082204390010000	A28	STATE OF MONTANA	4450 DUCK CREEK RD 59101
03082204390010000	A29	STATE OF MONTANA	4450 DUCK CREEK RD 59101
03092716301010000	B26	STATE OF MONTANA	
03092716301010000	B28	STATE OF MONTANA	
03092716301010000	B29	STATE OF MONTANA	
03092716301010000	B30	STATE OF MONTANA	
03092716301010000	B31	STATE OF MONTANA	
03092716418010000	B31	STATE OF MONTANA	
03133133314010000	C71	STATE OF MONTANA	
03143434103010000	C82	STATE OF MONTANA	
03143528102010000	C88	STATE OF MONTANA	
03092715305010000	B32	STATE OF MONTANA DEPARTMENT OF	OLD BLUE CREEK RD 59101
03103334150010000	C01	STATE OF MONTANA DEPARTMENT OF	US HIGHWAY 87 E 59101
03123519220010000	C42	STATE OF MONTANA DEPARTMENT OF	N 14TH RD 59088
03123519220010000	C43	STATE OF MONTANA DEPARTMENT OF	N 14TH RD 59088
03133127201010000	C72	STATE OF MONTANA DEPARTMENT OF	
03133126203010000	C73	STATE OF MONTANA DEPARTMENT OF	
03133127201010000	C73	STATE OF MONTANA DEPARTMENT OF	
03133126203010000	C74	STATE OF MONTANA DEPARTMENT OF	
03092636101010000	B10	STATE OF MT TRUST LAND	
03092636101010000	B11	STATE OF MT TRUST LAND	
03092636101010000	B47	STATE OF MT TRUST LAND	
03123516101010000	C45	STATE OF MT TRUST LAND	
03123516101010000	C46	STATE OF MT TRUST LAND	
03143436103010000	C84	STATE OF MT TRUST LAND	
03143436103010000	C85	STATE OF MT TRUST LAND	
03143436104010000	C85	STATE OF MT TRUST LAND	
03082204150010000	A29	STEEL, RONALD J	
03082204120010000	A29	STEEL, RONALD J & NADINE A	4365 DUCK CREEK RD 59101
03113414410050000	C25	STEFFANICH, MICHAEL K	6250 SIGNAL POINT DR 59079
03113414410060000	C25	STEFFANICH, MICHAEL K	
03113412414100000	C27	STEFFES, MARK B & LINDA	7528 BUCKSKIN DR 59079
03113425208140000	C22	STENE, EARL	PERITSE AVE 59037
03113425208140000	C23	STENE, EARL	PERITSE AVE 59037
03113425210100000	C23	STENE, EARL	
03113425208130000	C23	STENE, EARL H & KAREN R ETAL	
03113425208110000	C23	STENE, KAREN R & EARL H	90 PERITSE AVE 59037
03113425208120000	C23	STENE, KAREN R & EARL H	
03092711114230000	B40	STENGER, EARL P & AGNES	21 BUENA VISTA AVE 59101
03133204410010000	C79	STERNAD, JAY	7936 BUFFALO CREEK RD 59024
03123433201010000	C34	STOCKTON, JAMES G TRUST	
03123433411010000	C35	STOCKTON, JAMES G TRUST	
03123426101010000	C40	STOICK, MARJORIE	2715 N 11TH RD 59088
03123426101070000	C40	STOICK, MARJORIE E	
03103323401040000	C04	STOUDT, EDWARD O & JOYCE E TRU	1308 YELLOWSTONE RIVER R
03082115403010000	A02	STRAUCH, WILLIAM J & LINDA L	920 S STRAUCH RD 59044

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03082115403010000	A03	STRAUCH, WILLIAM J & LINDA L	920 S STRAUCH RD 59044
03082114307010000	A09	STRAUCH, WILLIAM J & LINDA L	
03082115403010000	A09	STRAUCH, WILLIAM J & LINDA L	920 S STRAUCH RD 59044
03103404206010000	C14	STRECKER, BRADLEY JOHN & LISA	
03103404206010000	C15	STRECKER, BRADLEY JOHN & LISA	
03103404206010000	C16	STRECKER, BRADLEY JOHN & LISA	
03113433401010000	C16	STRECKER, BRADLEY JOHN & LISA	4012 HOSKINS RD 59105
03103404206010000	C17	STRECKER, BRADLEY JOHN & LISA	
03113433401010000	C17	STRECKER, BRADLEY JOHN & LISA	4012 HOSKINS RD 59105
03113434303010000	C17	STRECKER, BRADLEY JOHN & LISA	4329 POWMER RD 59105
03113434303010000	C19	STRECKER, BRADLEY JOHN & LISA	4329 POWMER RD 59105
03123718101010000	C59	STROBBE, RUBY M TRUSTEE	
03123718101010000	C60	STROBBE, RUBY M TRUSTEE	
03123707401010000	C59	STROBBE, RUBY M TRUSTEE OF RUB	
03123707401010000	C60	STROBBE, RUBY M TRUSTEE OF RUB	
03123708309010000	C60	STROBBE, RUBY M TRUSTEE OF RUB	
03092719103020000	B22	STURN, JAMES J & SHARON E	1930 MULLOWNEY LN 59101
03113414410080000	C25	SUDERMAN, BETTE J &	6235 SIGNAL POINT DR 59079
03123424305010000	C41	SUKUT, RICK L & LISA M	1291 W M RD 59088
03123424305100000	C41	SUKUT, RICK L & LISA M	W M RD 59088
03123424305010000	C42	SUKUT, RICK L & LISA M	1291 W M RD 59088
03123424305100000	C42	SUKUT, RICK L & LISA M	W M RD 59088
03113425115050000	C23	SWANSON, CHARLES E & VALERIE R	113 PERITSE AVE 59037
03143530301010000	C85	SWANSON, MARY B & RICHARD W (1	7778 PEASE BOTTOM RD 59024
03143529201010000	C86	SWANSON, MARY B & RICHARD W (1	
03143530301010000	C86	SWANSON, MARY B & RICHARD W (1	7778 PEASE BOTTOM RD 59024
03143529201010000	C87	SWANSON, MARY B & RICHARD W (1	
03143529201010000	C88	SWANSON, MARY B & RICHARD W (1	
03123615101010000	C54	TALCOTT, JANET	
03123615101010000	C55	TALCOTT, JANET	
03123615101010000	C56	TALCOTT, JANET	
03123424401010000	C41	TALKINGTON, TODD R & MARNI K	2899 N 13TH RD 59088
03123424401010000	C42	TALKINGTON, TODD R & MARNI K	2899 N 13TH RD 59088
03123621411010000	C54	TAYLOR, ANDREW PAUL & DANIEL C	
03113424409050000	C23	TAYLOR, CECIL R & MARY LYNN	1665 BEECHWOOD ST 59037
03092719103089033	B22	TENNESON, DONNA	1926 MULLOWNEY LN 59101
03113413101100000	C26	TETER, JAMES & KATHLEEN C	
03113413101100000	C27	TETER, JAMES & KATHLEEN C	
03113413101100000	C28	TETER, JAMES & KATHLEEN C	
03113518211010000	C28	TETER, JAMES & KATHLEEN C	1994 N 3RD RD 59037
03123619104010000	C51	T-HANGING HEART, INC	
03123619104010000	C52	T-HANGING HEART, INC	
03123620203010000	C52	T-HANGING HEART, INC	
03123620203010000	C53	T-HANGING HEART, INC	
03103324202609064	C06	THOMEN, RONDA RUSCIEL	26 SKEENA ST 59105
03123710190050000	C63	THOMPSON, TIMOTHY J	4524 CUSTER FRONTAGE RD 59064
03123703401010000	C64	THOMPSON, TIMOTHY J	
03123703490010000	C64	THOMPSON, TIMOTHY J	
03123710190050000	C64	THOMPSON, TIMOTHY J	4524 CUSTER FRONTAGE RD 59064
03123703490010000	C65	THOMPSON, TIMOTHY J	
03123702102010000	C65	T-K FARMS LLC	4850 KELLER WELBORN RD 59088
03123701203010000	C66	T-K FARMS LLC	
03123702102010000	C66	T-K FARMS LLC	4850 KELLER WELBORN RD 59088
03123701203010000	C67	T-K FARMS LLC	
03123701203010000	C68	T-K FARMS LLC	
03133036401010000	C68	T-K FARMS LLC	
03133131201010000	C68	T-K FARMS LLC	
03133131201010000	C69	T-K FARMS LLC	

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03123702103030000	C65	TOP WATER PROPERTIES LLC	
03123702201010000	C65	TOP WATER PROPERTIES LLC	
03123702202010000	C65	TOP WATER PROPERTIES LLC	
03123702409010000	C65	TOP WATER PROPERTIES LLC	
03123701309010000	C66	TOP WATER PROPERTIES LLC	
03123702409010000	C66	TOP WATER PROPERTIES LLC	
03113424101300000	C28	TRAUTMAN, GREGORY & KIMBERLEY	1742 N 2ND RD 59037
03092625206120000	B14	TREIBER, RICHARD L	7004 WHITETAIL LN 59101
03092625206010000	B14	TREIBER, RICHARD L & ELAINE M	6900 WHITETAIL LN 59101
03092719103080000	B22	TRIPLE H LLC	1926 MULLOWNEY LN
03092719103089004	B22	TRIPLE H LLC	1926 MULLOWNEY LN 59101
03092719103089019	B22	TRIPLE H LLC	1926 MULLOWNEY LN 59101
03092719103089010	B22	TRIPLE H LLC	1926 MULLOWNEY LN 59101
03092719103089018	B22	TRIPLE H LLC	1926 MULLOWNEY LN 59101
03092719103089021	B22	TRIPLE H LLC	1926 MULLOWNEY LN 59101
03092719103089022	B22	TRIPLE H LLC	1926 MULLOWNEY LN 59101
03123519490050000	C44	TROUTMAN, GEORGE EDWARD	2878 N 16TH RD 59088
03123519490070000	C44	TROUTMAN, GEORGE EDWARD	2888 N 16TH RD 59088
03113414413010000	C25	TUCKER, CHRIS & CARRIE	6707 FREY RD 59079
03113414413010000	C26	TUCKER, CHRIS & CARRIE	6707 FREY RD 59079
03092719103089015	B22	TURNBULL ITC LLC	1926 MULLOWNEY LN 59101
03113414406090000	C25	TURNER, JOHN DUNCAN	FREY RD 59079
03092702103010000	B40	UNITED STATES OF AMERICA	
03092702103010000	B41	UNITED STATES OF AMERICA	
03092702103010000	B42	UNITED STATES OF AMERICA	
03092702103010000	B43	UNITED STATES OF AMERICA	
03103334401010000	B43	UNITED STATES OF AMERICA	
03103334401010000	B44	UNITED STATES OF AMERICA	
03113434403010000	C17	USDI-BUREAU OF RECLAMATION	
03113434403010000	C18	USDI-BUREAU OF RECLAMATION	
03113435390010000	C18	USDI-BUREAU OF RECLAMATION	
03113435390010000	C20	USDI-BUREAU OF RECLAMATION	
03113425304010000	C21	USDI-BUREAU OF RECLAMATION	
03113435390010000	C21	USDI-BUREAU OF RECLAMATION	
03113436290010000	C21	USDI-BUREAU OF RECLAMATION	
03113425304010000	C22	USDI-BUREAU OF RECLAMATION	
03123427306010000	C36	VAN LUCHENE, LARRY	
03123434216010000	C36	VAN LUCHENE, LARRY	2555 N 9TH RD 59088
03123427306010000	C37	VAN LUCHENE, LARRY	
03123428401020000	C36	VAN LUCHENE, LARRY V	
03082122112130000	A05	VAN SICLEN, CHARLES	2001 THIEL RD 59044
03103334103020000	B45	VANDERBERG, JAMES L & MILEEN G	
03113506201950000	C31	VAUGHT, M LYNN & TANYA FAYE	7975 EAGLE BEND BLVD 59079
03113506201950000	C32	VAUGHT, M LYNN & TANYA FAYE	7975 EAGLE BEND BLVD 59079
03133203290010000	C80	VICKERY, DAVID F & LINDA S	8100 BUFFALO CREEK RD 59024
03082203205010000	B01	VISSER, JAMES R	8603 BIGHORN RD 59101
03082203205010000	B02	VISSER, JAMES R	8603 BIGHORN RD 59101
03103326204010000	C02	WAGENMAN, NEAL A	1117 DOON AVE
03103326204010000	C03	WAGENMAN, NEAL A	1117 DOON AVE
03103326204060000	C03	WAGENMAN, NEAL A & CHERYL K	534 BONNIE LN
03103326204100000	C03	WAGENMAN, NEAL A & CHERYL K	BONNIE LN 59101
03092715115040000	B35	WAGGONER, MARY	2810 S FRONTAGE RD 59101
03092714220010000	B36	WAGGONER, MARY	795 GARDEN AVE 59101
03092715115040000	B36	WAGGONER, MARY	2810 S FRONTAGE RD 59101
03113425115060000	C23	WAGNER, R BRYAN & ANDREA T	PERITSE AVE 59037
03092719103089045	B22	WALLER, BRUCE	1926 MULLOWNEY LN 59101
03113505101010000	C32	WALTER, JEAN S	
03123432401010000	C32	WALTER, JEAN S	2413 N 5TH RD 59037

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03113505101010000	C33	WALTER, JEAN S	
03123432401010000	C33	WALTER, JEAN S	2413 N 5TH RD 59037
03123433301010000	C33	WALTER, JEAN S	
03123432401010000	C34	WALTER, JEAN S	2413 N 5TH RD 59037
03123433301010000	C34	WALTER, JEAN S	
03092719201010000	B19	WALTER, LEROY J & NORMA J	1843 EAST LN 59101
03123519310010000	C42	WARD, DANNY & JERALDINE E	2857 N 14TH RD 59088
03123519310010000	C43	WARD, DANNY & JERALDINE E	2857 N 14TH RD 59088
03123708301010000	C60	WATSON, MARK & SHIRLEY	
03123708305010000	C60	WATSON, MARK & SHIRLEY	
03123708305010000	C61	WATSON, MARK & SHIRLEY	
03082208301010000	A23	WEBBER, LLOYD J & GERRY A-TRST	4647 RIVER RD 59044
03082208301010000	A24	WEBBER, LLOYD J & GERRY A-TRST	4647 RIVER RD 59044
03092719107010000	B19	WEBER, JAMES A	5908 ELYSIAN RD 59101
03092719107010000	B22	WEBER, JAMES A	5908 ELYSIAN RD 59101
03103327106050000	C02	WEHRMAN, MARK & GINGER	404 BENCH BLVD 59105
03103313401010000	C07	WEINREICH, BERYL D & DAUNA L	2003 ELAINE ST 59105
03103313401010000	C08	WEINREICH, BERYL D & DAUNA L	2003 ELAINE ST 59105
03113414410090000	C25	WEINZETL, DONALD M	
03103327106300000	C02	WEISEL, GENE R & CHAR J	740 ORILLA ST 59105
03113506204200000	C30	WEKSLER INVESTMENT CORP	EAGLE BEND BLVD 59079
03113506204250000	C30	WEKSLER INVESTMENT CORP	EAGLE BEND BLVD 59079
03113506201800000	C31	WEKSLER INVESTMENT CORP	EAGLE BEND BLVD 59079
03113506201850000	C31	WEKSLER INVESTMENT CORP	EAGLE BEND BLVD 59079
03113506204250000	C31	WEKSLER INVESTMENT CORP	EAGLE BEND BLVD 59079
03113506204300000	C31	WEKSLER INVESTMENT CORP	EAGLE BEND BLVD 59079
03113506205850000	C31	WEKSLER INVESTMENT CORP	EAGLE BEND BLVD 59079
03082124111050000	A13	WELTER, LAVERNA C RLE	3319 RIVER RD 59044
03082124111050000	A14	WELTER, LAVERNA C RLE	3319 RIVER RD 59044
03123432201200000	C33	WESCHENFELDER, DANIEL	9443 BARTON PL 59079
03123432201200000	C34	WESCHENFELDER, DANIEL	9443 BARTON PL 59079
03092714211010000	B35	WESTERN SUGAR COMPANY	
03092715115050000	B35	WESTERN SUGAR COMPANY	
03092711301010000	B36	WESTERN SUGAR COMPANY	
03092714211010000	B36	WESTERN SUGAR COMPANY	
03092715115050000	B36	WESTERN SUGAR COMPANY	
03092714211010000	B37	WESTERN SUGAR COMPANY	
03103326204230000	C03	WHITBY, DAN	LOMOND LN 59101
03103326204220000	C03	WHITBY, DAN C	534 LOMOND LN 59101
03092720102010000	B28	WHITE, PATRICK P	1939 BLUE CREEK RD 59101
03133125201010000	C74	WHITE, TROY	
03133125201210000	C74	WHITE, TROY	
03133125201010000	C75	WHITE, TROY	
03133125201210000	C75	WHITE, TROY	
03092711114130000	B40	WIDNER, JANET L	135 BUENA VISTA AVE 59101
03103324206010000	C07	WIEGAND, REX C & CHRISTINA M	1585 RIVERVIEW CIR 59105
03113414413030000	C25	WIESE, JANEL R	6744 JOSHUA TREE LN 59079
03113414413030000	C26	WIESE, JANEL R	6744 JOSHUA TREE LN 59079
03092719103089032	B22	WILCKEN, TARA LEE	1926 MULLOWNEY LN 59101
03082218201250000	A19	WILLIAMS, CATHERINE A	3707 RIVER RD 59044
03082205470010000	A27	WILLIAMS, CATHERINE A	5283 RIVER RD 59044
03082205470010000	A28	WILLIAMS, CATHERINE A	5283 RIVER RD 59044
03092719103089034	B22	WILLIAMS, CHARLES G	1926 MULLOWNEY LN 59101
03092711114250000	B40	WILLIAMS, JACK R	3 BUENA VISTA AVE 59101
03082205101010000	A26	WILLIS, JOYCE M &	
03082205101010000	A27	WILLIS, JOYCE M &	
03082204403010000	A28	WILSON, CORRINE LEE &	
03082204401010000	A29	WILSON, KARL	4445 DUCK CREEK RD 59101

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03113424430010000	C28	WITTMAN, DONALD & JOANNE	115 US HIGHWAY 312 59037
03113424205010000	C23	WITTMAN, HAROLD & LINDA	115 US HIGHWAY 312 59037
03113424205010000	C24	WITTMAN, HAROLD & LINDA	115 US HIGHWAY 312 59037
03113424205010000	C28	WITTMAN, HAROLD & LINDA	115 US HIGHWAY 312 59037
03092719103089001	B22	WOOD, MARK ANTHONY	1926 MULLOWNEY LN 59101
03082124117030000	A14	WOOD, RYAN	3549 RIVER RD 59044
03133127411010000	C73	WOODS, JAMES S & WINONA M	
03113412106020000	C27	WOODS, WALTER W III	7540 PINTO DR 59079
03123423403010000	C40	WORDEN TRADING COMPANY	
03123426116010000	C40	WORDEN TRADING COMPANY	
03123423403010000	C41	WORDEN TRADING COMPANY	
03123424301010000	C41	WORDEN TRADING COMPANY	
03123424310010000	C41	WORDEN TRADING COMPANY	
03123426116010000	C41	WORDEN TRADING COMPANY	
03082123203010000	A05	WYANT, LARRY J & KAREN A	2208 THIEL RD 59044
03082123203010000	A06	WYANT, LARRY J & KAREN A	2208 THIEL RD 59044
03133202319010000	C80	WYBLE, MICHAEL A & SANDRA J	7074 CUSTER FRONTAGE RD 59024
03092711114220000	B40	YEGEN, PETER IV & ANNE SHEEHY	27 BUENA VISTA AVE 59101
03092711114260000	B40	YELLOWSTONE COUNTY	
03103326301010000	C01	YELLOWSTONE COUNTY	
03103327401010000	C01	YELLOWSTONE COUNTY	308 6TH AVE N 59101
03103327401020000	C01	YELLOWSTONE COUNTY	BENCH BLVD 59105
03103326201010000	C02	YELLOWSTONE COUNTY	
03103326206010000	C02	YELLOWSTONE COUNTY	
03103326207020000	C02	YELLOWSTONE COUNTY	
03103326210010000	C02	YELLOWSTONE COUNTY	
03103327401010000	C02	YELLOWSTONE COUNTY	308 6TH AVE N 59101
03103327401020000	C02	YELLOWSTONE COUNTY	BENCH BLVD 59105
03103323303010000	C03	YELLOWSTONE COUNTY	
03103326101040000	C03	YELLOWSTONE COUNTY	LOMOND LN 59101
03103326207020000	C03	YELLOWSTONE COUNTY	
03103326210010000	C03	YELLOWSTONE COUNTY	
03103323303010000	C04	YELLOWSTONE COUNTY	
03103323401090000	C04	YELLOWSTONE COUNTY	YELLOWSTONE RIVER R 59105
03103326101040000	C04	YELLOWSTONE COUNTY	LOMOND LN 59101
03103326207020000	C04	YELLOWSTONE COUNTY	
03103323303010000	C05	YELLOWSTONE COUNTY	
03103323401090000	C05	YELLOWSTONE COUNTY	YELLOWSTONE RIVER R 59105
03103408111010000	C13	YELLOWSTONE COUNTY	
03103408111010000	C14	YELLOWSTONE COUNTY	
03113412404010000	C26	YELLOWSTONE COUNTY	
03113412404010000	C27	YELLOWSTONE COUNTY	
03113507301010000	C29	YELLOWSTONE COUNTY	
03103326207010000	C02	YELLOWSTONE COUNTY (PARK)	
03113412403070000	C26	YELLOWSTONE COUNTY (PARK)	
03113412403070000	C27	YELLOWSTONE COUNTY (PARK)	
03092719103010000	B22	YELLOWSTONE RIVER PARKS ASSN I	
03092719101010000	B19	YELLOWSTONE RIVER PARKS ASSOC	
03103407201500000	C11	YELLOWSTONE RIVER PARKS ASSOC	
03103407201500000	C12	YELLOWSTONE RIVER PARKS ASSOC	
03092717404010000	B26	YELLOWSTONE RIVER PARKS ASSOCI	
03092717404010000	B28	YELLOWSTONE RIVER PARKS ASSOCI	
03103312411010000	C10	YELLOWSTONE RIVER PARKS ASSOCI	MARY ST 59105
03103407301010000	C10	YELLOWSTONE RIVER PARKS ASSOCI	
03103407301010000	C11	YELLOWSTONE RIVER PARKS ASSOCI	
03092625107010000	B15	ZEILER, HAROLD E OR GLORIA D C	2424 EAST LN 59101
03092624401010000	B16	ZEILER, HAROLD E OR GLORIA D C	
03092625107010000	B16	ZEILER, HAROLD E OR GLORIA D C	2424 EAST LN 59101

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03092625107010000	B46	ZEILER, HAROLD E OR GLORIA D C	2424 EAST LN 59101
03123525101010000	C49	ZELMER, DORA JEAN BAUM	
03123525101010000	C50	ZELMER, DORA JEAN BAUM	
03103326205040000	C02	ZIESKE, SHARON L	515 BENCH BLVD 59105
03103326205510000	C02	ZIMMERER, STEVE & BRENDA	819 TWO MOON PARK RD 59105
03888844444444444	A01, A02, A09, A20, A27, B22, B26, B28, C05-C07, C17, C18, C20, C22, C23-C28, C30-C33, C35-C37, C41-C46, C49-C53, C55-C58, C62, C63, C66-C76, C78-C80, C83, C84, C86, C87		
03082115307030000	A01		
03777755555555555	A01 - A03, A06 - A19, C02, C17 - C42, C50 - C68, C74		
03888855555550000	A01, B26, B28		
03888855555555555	A01, B45, C01, C23, C24, C28, C52, C53, C86		
03999955555550000	A01-A03, A06-A29, B01-B18, B20-B26, B28-B47, C01-C16, C18-C20		
03082123209016001	A04		
03082123209016000	A05		
03082123209106000	A05		
03082123211016000	A05		
03082123211016001	A05		
03082123213016001	A05		
03082123209016001	A05, A09		
03082123209106001	A05, A09		
03082123211016000	A06		
03082123213016000	A06		
03082123211016001	A06, A09		
03082123213016001	A06, A09, A10		
03999966666660000	A08		
03888844444440000	A11, A13, A14, A28, A29, B01, B04, B16, B19, B22, B26, B28, B31-B33, B36, B37, B40, B43, C01-C03, C13		
03777755555550000	A19 - A29, B01 - B09, B11 - B18, B28 - B45, C01 - C04, C08 - C17, C80 - C88		
03082203150010000	B02, B03		
03092626301016000	B09		
03999999555550000	B16 - B20		
03777777777770000	B18 - B26, B28, B29, C04 - C09, C76 - C81		
03092719103059001	B22		
03092719103059004	B22		
03092719103059003	B22		
03092719103059005	B22		
03092719103089009	B22		
03092719103089008	B22		
03092719103089002	B22		
03092719103089026	B22		
03888833333333333	B27, C05		
03888833333330000	B40, C02, C04, C05		
03092702401030000	B41		
03092702401040000	B41, B42		
03092702101010000	B42		
03092702101030000	B42		
03092702101040000	B42		
03092702102010000	B42		
03555555555550000	B42 - B45		
03888866666660000	B42 - B45		
03092702101050000	B42, B43		
03666666666660000	B42, B43, B45		
03888866666666666	B42, B43, C55-C58, C67, C68, C69, C84, C85		
03103334000000000	B45		
03103334105060000	C01		
03103324202609171	C05, C06		
03103324202609008	C06		
03103324202609002	C06		
03103324202609007	C06		

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03103324202609009	C06		
03103324202609015	C06		
03103324202609013	C06		
03103324202609016	C06		
03103324202609014	C06		
03103324202609017	C06		
03103324202609023	C06		
03103324202609021	C06		
03103324202609026	C06		
03103324202609022	C06		
03103324202609024	C06		
03103324202609020	C06		
03103324202609025	C06		
03103324202609038	C06		
03103324202609037	C06		
03103324202609036	C06		
03103324202609035	C06		
03103324202609042	C06		
03103324202609067	C06		
03103324202609131	C06		
03103324202609133	C06		
03103324202609132	C06		
03999999999990000	C10		
03103408000000000	C12, C13		
03103400000000000	C13 - C17		
03999999999999999	C13, C88		
03113425000000000	C22		
03113425207010000	C22, C23		
03113423403010000	C23		
03555555555555555	C23, C24, C52, C53, C74		
99999999999999999	C23, C44, C49, C50		
03777777777777777	C42 - C50, C68 - C76		
03123620351010000	C51, C52		
03123617401310000	C52, C53		
03123622000000000	C54, C55		
03123623000000000	C55, C56		
03666666666666666	C55, C56, C57, C58, C67, C68, C69, C71, C74, C75, C84, C85, C86		
03123624000000000	C56 - C58		
03123613000000000	C58		
03123718000000000	C58		
03123709000000000	C62, C63		
03123710000000000	C63		
03123702000000000	C65, C66		
03123701000000000	C66 - C68		
03444444444444444	C66, C67, C76, C80		
03123906000000000	C68, C69		
03133131000000000	C69		
03133132000000000	C69 - C71		
03123905000000000	C69, C70		
03133133000000000	C71, C72		
03133127000000000	C72, C73		
03133134000000000	C72, C73		
03133126000000000	C73, C74		
03133124000000000	C74 - C76		
03133125000000000	C74, C75		
03133218000000000	C76, C77		
03133207000000000	C77		

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03133217000000000	C77		
03133208000000000	C77, C78		
03133209000000000	C78, C79		
03133210000000000	C79		
03133203000000000	C79, C80		
03133202000000000	C80		
03143436000000000	C84, C85		
03143531000000000	C85, C86		
03143532000000000	C86, C87		
03143533000000000	C87, C88		
03143528000000000	C88		

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03082112101010000	A19	FLYING BOX RANCH CO	127 N MAGELSSEN RD 59044
03082112101010000	A20	FLYING BOX RANCH CO	127 N MAGELSSEN RD 59044
03082113103010000	A17	CASTLEBERRY, ROBERT A & PATRIC	202 N RIVER RD 59044
03082113103010000	A18	CASTLEBERRY, ROBERT A & PATRIC	202 N RIVER RD 59044
03082113103010000	A19	CASTLEBERRY, ROBERT A & PATRIC	202 N RIVER RD 59044
03082113105010000	A18	ALLEE, RUSTY M & JULIE L	101 N RIVER RD 59044
03082113105010000	A19	ALLEE, RUSTY M & JULIE L	101 N RIVER RD 59044
03082113107010000	A17	MCBURNEY, SCOTT DOUGLAS & SUE	651 N RIVER RD 59044
03082113107010000	A18	MCBURNEY, SCOTT DOUGLAS & SUE	651 N RIVER RD 59044
03082113107040000	A17	MCBURNEY, SCOTT DOUGLAS & SUE	
03082113107040000	A18	MCBURNEY, SCOTT DOUGLAS & SUE	
03082113107040000	A19	MCBURNEY, SCOTT DOUGLAS & SUE	
03082113301010000	A10	FLYING BOX RANCH CO	
03082113301010000	A15	FLYING BOX RANCH CO	
03082113301010000	A16	FLYING BOX RANCH CO	
03082113301010000	A17	FLYING BOX RANCH CO	
03082113301010000	A18	FLYING BOX RANCH CO	
03082113301010000	A19	FLYING BOX RANCH CO	
03082113303010000	A10	STATE OF MONTANA	
03082113303010000	A12	STATE OF MONTANA	
03082113303010000	A13	STATE OF MONTANA	
03082113303010000	A14	STATE OF MONTANA	
03082113303010000	A15	STATE OF MONTANA	
03082113303010000	A16	STATE OF MONTANA	
03082113303010000	A17	STATE OF MONTANA	
03082113303010000	A18	STATE OF MONTANA	
03082113401010000	A14	KISLING, DAVID C	851 N RIVER RD 59044
03082113401010000	A17	KISLING, DAVID C	851 N RIVER RD 59044
03082113401020000	A14	KISLING, DAVID C	THIEL RD 59044
03082113403010000	A14	SMITH, CHRIS C & CHRISTY V	1389 N RIVER RD 59044
03082113403030000	A14	LOCKIE, JOHN W & JANA L	MULEY MDWS 59044
03082113403050000	A14	DONOVAN, VICTOR J & RITA M	1370 MULEY MDWS 59044
03082113403050000	A17	DONOVAN, VICTOR J & RITA M	1370 MULEY MDWS 59044
03082113405010000	A17	DONOVAN, VICTOR J & RITA M	MULEY MDWS 59044
03082113405010000	A18	DONOVAN, VICTOR J & RITA M	MULEY MDWS 59044
03082113406010000	A14	LOCKIE, JOHN W & JANA L	1300 MULEY MDWS 59044
03082113406010000	A17	LOCKIE, JOHN W & JANA L	1300 MULEY MDWS 59044
03082113407010000	A14	DUSTIN, JAMES A	3695 RIVER RD 59044
03082114101010000	A09	CIRCLE LAND MANAGEMENT INC	2506 S LAUREL RD 59044
03082114101010000	A10	CIRCLE LAND MANAGEMENT INC	2506 S LAUREL RD 59044
03082114301010000	A04	EDWARDS, JAMES E	
03082114301010000	A09	EDWARDS, JAMES E	
03082114301010000	A10	EDWARDS, JAMES E	
03082114303010000	A09	CIRCLE LAND MANAGEMENT INC	
03082114303010000	A10	CIRCLE LAND MANAGEMENT INC	
03082114307010000	A09	STRAUCH, WILLIAM J & LINDA L	
03082114401010000	A10	EDWARDS, JAMES E	
03082114403010000	A10	CIRCLE LAND MANAGEMENT INC	
03082115301010000	A01	CITY OF LAUREL	
03082115301010000	A02	CITY OF LAUREL	
03082115307010000	A01	CITY OF LAUREL	US HIGHWAY 212 S 59044
03082115307020000	A01	CHS INC	
03082115307020000	A02	CHS INC	
03082115307030000	A01		
03082115307200000	A02	CITY OF LAUREL	
03082115401030000	A02	FREY, DALE T & GAYLE M	1344 MC MULLEN LN 59044
03082115401030000	A03	FREY, DALE T & GAYLE M	1344 MC MULLEN LN 59044
03082115401050000	A03	EDWARDS, JAMES E	

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03082115401050000	A04	EDWARDS, JAMES E	
03082115401050000	A09	EDWARDS, JAMES E	
03082115403010000	A02	STRAUCH, WILLIAM J & LINDA L	920 S STRAUCH RD 59044
03082115403010000	A03	STRAUCH, WILLIAM J & LINDA L	920 S STRAUCH RD 59044
03082115403010000	A09	STRAUCH, WILLIAM J & LINDA L	920 S STRAUCH RD 59044
03082115409100000	A09	GRANDPRE, TIMOTHY D & AMY P K	704 S STRAUCH RD 59044
03082115409120000	A09	CHS INC	
03082116407010000	A01	CHS INC	1205 US HIGHWAY 310 59044
03082122112030000	A03	KENNEDY, DANIEL L & DENISE A	MC MULLEN LN 59044
03082122112030000	A04	KENNEDY, DANIEL L & DENISE A	MC MULLEN LN 59044
03082122112030000	A05	KENNEDY, DANIEL L & DENISE A	MC MULLEN LN 59044
03082122112130000	A05	VAN SICLEN, CHARLES	2001 THIEL RD 59044
03082122115010000	A03	BERG, JOHN W &	1434 MC MULLEN LN 59044
03082122115100000	A03	LANCE, BILLIELOU B & STANLEY W	1422 LANCE LN 59044
03082122212290000	A02	GLOBAL S INVESTMENTS LLC	1317 THIEL RD 59044
03082123109010000	A07	COLLEGE PARK LLP	3001 THIEL RD 59044
03082123109010000	A08	COLLEGE PARK LLP	3001 THIEL RD 59044
03082123109010000	A11	COLLEGE PARK LLP	3001 THIEL RD 59044
03082123109010000	A12	COLLEGE PARK LLP	3001 THIEL RD 59044
03082123111010000	A07	EDWARDS, JAMES E	
03082123111010000	A10	EDWARDS, JAMES E	
03082123115010000	A07	EDWARDS, JAMES E	
03082123115010000	A08	EDWARDS, JAMES E	
03082123115010000	A10	EDWARDS, JAMES E	
03082123201010000	A05	CHILDS, GREGORY W	2128 THIEL RD 59044
03082123203010000	A05	WYANT, LARRY J & KAREN A	2208 THIEL RD 59044
03082123203010000	A06	WYANT, LARRY J & KAREN A	2208 THIEL RD 59044
03082123209016001	A04		
03082123209016000	A05		
03082123209016001	A05, A09		
03082123209106000	A05		
03082123209106001	A05, A09		
03082123211016000	A05		
03082123211016001	A05		
03082123211016000	A06		
03082123211016001	A06, A09		
03082123213016001	A05		
03082123213016000	A06		
03082123213016001	A06, A09, A10		
03082123303010000	A06	BUREAU OF LAND MANAGEMENT	
03082123303010000	A07	BUREAU OF LAND MANAGEMENT	
03082123303010000	A08	BUREAU OF LAND MANAGEMENT	
03082124111010000	A13	ERICKSON, ROGER C	3443 RIVER RD 59044
03082124111010000	A14	ERICKSON, ROGER C	3443 RIVER RD 59044
03082124111050000	A13	WELTER, LAVERNA C RLE	3319 RIVER RD 59044
03082124111050000	A14	WELTER, LAVERNA C RLE	3319 RIVER RD 59044
03082124113010000	A13	ACHTEN, JEFFREY J	
03082124113010000	A14	ACHTEN, JEFFREY J	
03082124117010000	A14	LABEAU, FREDERICK E	1419 N RIVER RD 59044
03082124117030000	A14	WOOD, RYAN	3549 RIVER RD 59044
03082124190010000	A14	DONOVAN, VICTOR J & RITA M	RIVER RD 59044
03082124201010000	A08	BUREAU OF LAND MANAGEMENT	
03082124206010000	A12	DOVE, KENNETH L	3243 RIVER RD 59044
03082124206010000	A13	DOVE, KENNETH L	3243 RIVER RD 59044
03082124206050000	A12	AAKER, STEVEN F	3223 RIVER RD 59044
03082124206050000	A13	AAKER, STEVEN F	3223 RIVER RD 59044
03082124219010000	A08	SEVERIN, RANDAL J & STANLEY D	THIEL RD 59044
03082124219010000	A10	SEVERIN, RANDAL J & STANLEY D	THIEL RD 59044

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03082124219010000	A12	SEVERIN, RANDAL J & STANLEY D	THIEL RD 59044
03082124219010000	A13	SEVERIN, RANDAL J & STANLEY D	THIEL RD 59044
03082124219010000	A14	SEVERIN, RANDAL J & STANLEY D	THIEL RD 59044
03082124219010000	A15	SEVERIN, RANDAL J & STANLEY D	THIEL RD 59044
03082124305010000	A11	ALTMAN, THOMAS L & EVONNE	3108 RIVER RD 59044
03082124305010000	A12	ALTMAN, THOMAS L & EVONNE	3108 RIVER RD 59044
03082124305010000	A13	ALTMAN, THOMAS L & EVONNE	3108 RIVER RD 59044
03082124401010000	A13	ALTMAN, THOMAS L	2133 SPRING CREEK RD 59044
03082203150010000	B02, B03		
03082203201010000	B01	ALLAN, CHERE' S	8533 DUCK CREEK RD 59101
03082203201010000	B02	ALLAN, CHERE' S	8533 DUCK CREEK RD 59101
03082203205010000	B01	VISSER, JAMES R	8603 BIGHORN RD 59101
03082203205010000	B02	VISSER, JAMES R	8603 BIGHORN RD 59101
03082203213010000	B02	MCKELVIE, LOUISE H	
03082203213010000	B03	MCKELVIE, LOUISE H	
03082203213010000	B05	MCKELVIE, LOUISE H	
03082203213010000	B06	MCKELVIE, LOUISE H	
03082203215010000	B04	MCKELVIE, LOUISE H	
03082203215010000	B05	MCKELVIE, LOUISE H	
03082204101010000	A29	GONITZKE, JOHN & KAY F	
03082204106010000	A29	GONITZKE, JOHN & KAY F	
03082204106010000	B01	GONITZKE, JOHN & KAY F	
03082204106010000	B02	GONITZKE, JOHN & KAY F	
03082204106010000	B04	GONITZKE, JOHN & KAY F	
03082204106010000	B05	GONITZKE, JOHN & KAY F	
03082204107010000	A29	GONITZKE, JOHN & KAY F	4313 DUCK CREEK RD 59044
03082204107010000	B01	GONITZKE, JOHN & KAY F	4313 DUCK CREEK RD 59044
03082204120010000	A29	STEEL, RONALD J & NADINE A	4365 DUCK CREEK RD 59101
03082204150010000	A29	STEEL, RONALD J	
03082204205010000	A27	RUDIO, RUTH & CHRISTAIN HCO-TR	4249 S 56TH ST W 59101
03082204205010000	A28	RUDIO, RUTH & CHRISTAIN HCO-TR	4249 S 56TH ST W 59101
03082204205010000	A29	RUDIO, RUTH & CHRISTAIN HCO-TR	4249 S 56TH ST W 59101
03082204209010000	A28	MCKELVIE, LOUISE H	4104 DUCK CREEK RD 59101
03082204209010000	A29	MCKELVIE, LOUISE H	4104 DUCK CREEK RD 59101
03082204209010000	B04	MCKELVIE, LOUISE H	4104 DUCK CREEK RD 59101
03082204214010000	A28	SMITH, BARBARA A	9240 RUDIO RD 59101
03082204215010000	A28	ARCE, CARLOS R & KAREN C	9314 RUDIO RD 59101
03082204217010000	A28	RUDIO, GERALD W & MARIETTA M	9220 RUDIO RD 59101
03082204301010000	A28	HASSETT, BARBARA L &	5423 RIVER RD 59044
03082204306010000	A28	GAUGER, THOMAS P	
03082204313010000	A28	CLARKE, PATRICK	5626 RIVER RD 59044
03082204318010000	A28	ALBRECHT, ELMER & EDNA	5435 RIVER RD 59044
03082204319030000	A28	STARR, JUDITH L	
03082204390010000	A28	STATE OF MONTANA	4450 DUCK CREEK RD 59101
03082204390010000	A29	STATE OF MONTANA	4450 DUCK CREEK RD 59101
03082204401010000	A29	WILSON, KARL	4445 DUCK CREEK RD 59101
03082204403010000	A28	WILSON, CORRINE LEE &	
03082205101010000	A26	WILLIS, JOYCE M &	
03082205101010000	A27	WILLIS, JOYCE M &	
03082205104010000	A27	REITER FAMILY 1994 LIVING TRUS	4332 DUSTIN RD 59101
03082205302010000	A25	RICHARD C & BETTY Z CHRISTENSE	CHRISTENSEN RD 59101
03082205302010000	A26	RICHARD C & BETTY Z CHRISTENSE	CHRISTENSEN RD 59101
03082205310010000	A25	CHRISTENSEN, RICHARD C TRUSTEE	4633 CHRISTENSEN RD 59101
03082205310010000	A26	CHRISTENSEN, RICHARD C TRUSTEE	4633 CHRISTENSEN RD 59101
03082205416010000	A27	RUDIO, CHRISTIAN H & RUTH CO-T	
03082205416010000	A28	RUDIO, CHRISTIAN H & RUTH CO-T	
03082205470010000	A27	WILLIAMS, CATHERINE A	5283 RIVER RD 59044
03082205470010000	A28	WILLIAMS, CATHERINE A	5283 RIVER RD 59044

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03082207104010000	A22	CHRISTENSEN, RICHARD C TRUSTE	
03082207104010000	A23	CHRISTENSEN, RICHARD C TRUSTE	
03082207306010000	A19	FLYING BOX RANCH CO	431 ALLENDALE RD 59044
03082207306010000	A20	FLYING BOX RANCH CO	431 ALLENDALE RD 59044
03082207306010000	A21	FLYING BOX RANCH CO	431 ALLENDALE RD 59044
03082207306010000	A22	FLYING BOX RANCH CO	431 ALLENDALE RD 59044
03082207404010000	A21	RUTH A TERRY REVOCABLE TRUST	4115 RIVER RD 59044
03082207404010000	A22	RUTH A TERRY REVOCABLE TRUST	4115 RIVER RD 59044
03082207404010000	A23	RUTH A TERRY REVOCABLE TRUST	4115 RIVER RD 59044
03082208101016001	A25	C/J LAND & LIVESTOCK LP	5283 RIVER RD 59044
03082208101016000	A25	C/J LAND & LIVESTOCK LP	
03082208101016001	A26	C/J LAND & LIVESTOCK LP	5283 RIVER RD 59044
03082208101016000	A26	C/J LAND & LIVESTOCK LP	
03082208101016000	A27	C/J LAND & LIVESTOCK LP	
03082208101016000	A28	C/J LAND & LIVESTOCK LP	
03082208207010000	A22	CHRISTENSEN, RICHARD C TRUSTE	
03082208207010000	A23	CHRISTENSEN, RICHARD C TRUSTE	
03082208207010000	A24	CHRISTENSEN, RICHARD C TRUSTE	
03082208207010000	A25	CHRISTENSEN, RICHARD C TRUSTE	
03082208301010000	A23	WEBBER, LLOYD J & GERRY A-TRST	4647 RIVER RD 59044
03082208301010000	A24	WEBBER, LLOYD J & GERRY A-TRST	4647 RIVER RD 59044
03082208310016001	A23	C/J LAND & LIVESTOCK LP	
03082208310016001	A24	C/J LAND & LIVESTOCK LP	
03082208310016002	A24	C/J LAND & LIVESTOCK LP	
03082208310016000	A25	C/J LAND & LIVESTOCK LP	
03082208310016001	A25	C/J LAND & LIVESTOCK LP	
03082208310016002	A25	C/J LAND & LIVESTOCK LP	
03082208310016000	A26	C/J LAND & LIVESTOCK LP	
03082218201020000	A18	C J LAND & LIVESTOCK	3705 RIVER RD 59044
03082218201020000	A19	C J LAND & LIVESTOCK	3705 RIVER RD 59044
03082218201020000	A20	C J LAND & LIVESTOCK	3705 RIVER RD 59044
03082218201020000	A21	C J LAND & LIVESTOCK	3705 RIVER RD 59044
03082218201250000	A19	WILLIAMS, CATHERINE A	3707 RIVER RD 59044
03082218204010000	A20	C J LAND LIVESTOCK LP	
03082218204010000	A21	C J LAND LIVESTOCK LP	
03082218204010000	A22	C J LAND LIVESTOCK LP	
03092624401010000	B16	ZEILER, HAROLD E OR GLORIA D C	
03092625107010000	B15	ZEILER, HAROLD E OR GLORIA D C	2424 EAST LN 59101
03092625107010000	B16	ZEILER, HAROLD E OR GLORIA D C	2424 EAST LN 59101
03092625107010000	B46	ZEILER, HAROLD E OR GLORIA D C	2424 EAST LN 59101
03092625201010000	B13	HANSON, JEROME D	2711 GOODMAN RD 59101
03092625203010000	B13	RUKSTAD, BRUCE L & DIANA L	
03092625203010000	B14	RUKSTAD, BRUCE L & DIANA L	
03092625203300000	B13	NEILL, MARIAN H	2645 GOODMAN RD 59101
03092625203300000	B14	NEILL, MARIAN H	2645 GOODMAN RD 59101
03092625205120000	B14	PATTERSON, MERIDEE A	7000 WHITETAIL LN 59101
03092625206010000	B14	TREIBER, RICHARD L & ELAINE M	6900 WHITETAIL LN 59101
03092625206120000	B14	TREIBER, RICHARD L	7004 WHITETAIL LN 59101
03092625207010000	B14	STARR, WILLIAM J & CAROL A	6868 WHITETAIL LN 59101
03092625207120000	B14	STARR, WILLIAM J & CAROL A	WHITETAIL LN 59101
03092625207120000	B15	STARR, WILLIAM J & CAROL A	WHITETAIL LN 59101
03092625208120000	B15	STARR, WILLIAM J & CAROL A	WHITETAIL LN 59101
03092625209010000	B14	CARMAN, MARK L & NANCY T	2525 GOODMAN RD 59101
03092625401010000	B46	DOLPH, DOUGLAS K & DIANA M	
03092625401010000	B47	DOLPH, DOUGLAS K & DIANA M	
03092625406010000	B46	BLAIN, ALMON R & GERHART S 3/5	
03092625406010000	B47	BLAIN, ALMON R & GERHART S 3/5	
03092626104010000	B09	GOODMAN, IRVIN & JANICE TRUSTE	2720 GOODMAN RD 59101

Look-up by Parcel ID

Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03092626104010000	B11	GOODMAN, IRVIN & JANICE TRUSTE	2720 GOODMAN RD 59101
03092626104010000	B12	GOODMAN, IRVIN & JANICE TRUSTE	2720 GOODMAN RD 59101
03092626104010000	B13	GOODMAN, IRVIN & JANICE TRUSTE	2720 GOODMAN RD 59101
03092626104040000	B13	MARCHWINSKI, DANIEL J & TRACI	2700 GOODMAN RD 59101
03092626301016000	B09		
03092626301200000	B09	FRAZIER, KENNETH S & SHEILAH	3185 WISE LN 59101
03092634305010000	B04	KLAMERT, GENE & RONNA	DUCK CREEK RD 59101
03092634305010000	B05	KLAMERT, GENE & RONNA	DUCK CREEK RD 59101
03092634401010000	B05	LIMPP FAMILY LLC	3750 WISE LN 59101
03092634401010000	B06	LIMPP FAMILY LLC	3750 WISE LN 59101
03092634401010000	B07	LIMPP FAMILY LLC	3750 WISE LN 59101
03092635104010000	B10	BELL, RANDALL & CARLA F	
03092635104010000	B11	BELL, RANDALL & CARLA F	
03092635109010000	B09	GOODMAN, IRVIN & JANICE TRUSTE	
03092635109010000	B10	GOODMAN, IRVIN & JANICE TRUSTE	
03092635109010000	B11	GOODMAN, IRVIN & JANICE TRUSTE	
03092635201010000	B07	CHRISTENSEN, RICHARD C TRUSTEE	3215 WISE LN 59101
03092635201010000	B08	CHRISTENSEN, RICHARD C TRUSTEE	3215 WISE LN 59101
03092635201010000	B09	CHRISTENSEN, RICHARD C TRUSTEE	3215 WISE LN 59101
03092635301010000	B03	BOND, GAIL M	
03092635301010000	B07	BOND, GAIL M	
03092635301010000	B08	BOND, GAIL M	
03092635301010000	B09	BOND, GAIL M	
03092635401010000	B08	BELL, RANDALL & CARLA F	
03092635401010000	B09	BELL, RANDALL & CARLA F	
03092635401010000	B10	BELL, RANDALL & CARLA F	
03092635401010000	B11	BELL, RANDALL & CARLA F	
03092636101010000	B10	STATE OF MT TRUST LAND	
03092636101010000	B11	STATE OF MT TRUST LAND	
03092636101010000	B47	STATE OF MT TRUST LAND	
03092702101010000	B42		
03092702101030000	B42		
03092702101040000	B42		
03092702101050000	B42, B43		
03092702102010000	B42		
03092702103010000	B40	UNITED STATES OF AMERICA	
03092702103010000	B41	UNITED STATES OF AMERICA	
03092702103010000	B42	UNITED STATES OF AMERICA	
03092702103010000	B43	UNITED STATES OF AMERICA	
03092702401010000	B40	CITY OF BILLINGS	BELKNAP AVE 59101
03092702401010000	B41	CITY OF BILLINGS	BELKNAP AVE 59101
03092702401020000	B40	CITY OF BILLINGS	2251 BELKNAP AVE 59101
03092702401020000	B41	CITY OF BILLINGS	2251 BELKNAP AVE 59101
03092702401030000	B41		
03092702401040000	B41, B42		
03092702420010000	B40	CITY OF BILLINGS	
03092711101010000	B39	O'LEARY, BARRY INC	
03092711101010000	B40	O'LEARY, BARRY INC	
03092711114020000	B39	CITY OF BILLINGS	BELKNAP AVE 59101
03092711114020000	B40	CITY OF BILLINGS	BELKNAP AVE 59101
03092711114120000	B40	CITY OF BILLINGS	BUENA VISTA AVE 59101
03092711114130000	B40	WIDNER, JANET L	135 BUENA VISTA AVE 59101
03092711114140000	B40	BRALEY, SHANE L	129 BUENA VISTA AVE 59101
03092711114150000	B40	KRANK, VICTOR G & CAROL S	123 BUENA VISTA AVE 59101
03092711114160000	B40	HUCK, GERARD R	117 BUENA VISTA AVE 59101
03092711114170000	B40	SHUPAK, STEVE	103 BUENA VISTA AVE 59101
03092711114190000	B40	BRUBAKER, SHIRLEY B	49 BUENA VISTA AVE 59101
03092711114200000	B40	NICHOLS, RITA F	45 BUENA VISTA AVE 59101

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03092711114210000	B40	JACOBS, DENNIS R & QUINA JOYCE	33 BUENA VISTA AVE 59101
03092711114220000	B40	YEGEN, PETER IV & ANNE SHEEHY	27 BUENA VISTA AVE 59101
03092711114230000	B40	STENGER, EARL P & AGNES	21 BUENA VISTA AVE 59101
03092711114240000	B40	JONES, STEPHEN W & TERESA KAY	15 BUENA VISTA AVE 59101
03092711114250000	B40	WILLIAMS, JACK R	3 BUENA VISTA AVE 59101
03092711114260000	B40	YELLOWSTONE COUNTY	
03092711130010000	B39	CITY OF BILLINGS	
03092711130010000	B40	CITY OF BILLINGS	
03092711140010000	B38	CITY OF BILLINGS	
03092711140010000	B39	CITY OF BILLINGS	
03092711140010000	B40	CITY OF BILLINGS	
03092711301010000	B36	WESTERN SUGAR COMPANY	
03092711305010000	B37	FOX, DARLENE,	
03092711305030000	B37	FOX, DARLENE,	
03092711305050000	B36	FOX, DARLENE,	
03092711305050000	B37	FOX, DARLENE,	
03092711305090000	B37	FOX, DARLENE,	
03092711305120000	B37	FOX, DARLENE,	
03092711402010000	B37	O'LEARY, BARRY INC	
03092711402010000	B38	O'LEARY, BARRY INC	
03092711402010000	B39	O'LEARY, BARRY INC	
03092711412010000	B37	LINDE, MARVIN E	547 GARDEN AVE 59101
03092711412010000	B38	LINDE, MARVIN E	547 GARDEN AVE 59101
03092711412070000	B37	BILLINGS CAMPGROUND	308 GARDEN AVE
03092711412070000	B38	BILLINGS CAMPGROUND	308 GARDEN AVE
03092711412070000	B39	BILLINGS CAMPGROUND	308 GARDEN AVE
03092711412230000	B39	BARNES, DOUGLAS A	3003 GARDEN AVE 59101
03092712201010000	B40	O'LEARY, BARRY INC	
03092714201010000	B36	BILLINGS MOTORCYCLE CLUB INC	
03092714211010000	B35	WESTERN SUGAR COMPANY	
03092714211010000	B36	WESTERN SUGAR COMPANY	
03092714211010000	B37	WESTERN SUGAR COMPANY	
03092714215010000	B35	BILLINGS MOTORCYCLE CLUB INC	
03092714215010000	B36	BILLINGS MOTORCYCLE CLUB INC	
03092714220010000	B36	WAGGONER, MARY	795 GARDEN AVE 59101
03092714404010000	B36	BUREAU OF LAND MANAGEMENT	
03092714404010000	B37	BUREAU OF LAND MANAGEMENT	
03092715101010000	B35	BILLINGS MOTORCYCLE CLUB INC	
03092715110010000	B34	JTL GROUP INC A MT CORPORATION	3218 S FRONTAGE RD
03092715110010000	B35	JTL GROUP INC A MT CORPORATION	3218 S FRONTAGE RD
03092715111010000	B34	JTL GROUP INC A MT CORPORATION	RIVERSIDE DR 59101
03092715111010000	B35	JTL GROUP INC A MT CORPORATION	RIVERSIDE DR 59101
03092715113010000	B35	MARTE M NELSON TRUST	
03092715113020000	B35	MARTE M NELSON TRUST	
03092715113030000	B35	MARTE M NELSON TRUST	
03092715114010000	B35	MARTE M NELSON TRUST	
03092715114020000	B35	MARTE M NELSON TRUST	1102 RIVERSIDE DR 59101
03092715114030000	B35	PIPPIN, DONALD H & NORMAJEAN	1036 RIVERSIDE DR 59101
03092715115040000	B35	WAGGONER, MARY	2810 S FRONTAGE RD 59101
03092715115040000	B36	WAGGONER, MARY	2810 S FRONTAGE RD 59101
03092715115050000	B35	WESTERN SUGAR COMPANY	
03092715115050000	B36	WESTERN SUGAR COMPANY	
03092715201010000	B31	CITY OF BILLINGS (PARK)	
03092715201010000	B33	CITY OF BILLINGS (PARK)	
03092715202010000	B33	DRISCOLL FAMILY LP	
03092715202010000	B34	DRISCOLL FAMILY LP	
03092715211010000	B33	EVOLUTION HC, LLC	3176 S FRONTAGE RD
03092715301010000	B32	BILLINGS MOTORCYCLE CLUB INC	3630 OLD BLUE CREEK RD 59101

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03092715301010000	B34	BILLINGS MOTORCYCLE CLUB INC	3630 OLD BLUE CREEK RD 59101
03092715301010000	B35	BILLINGS MOTORCYCLE CLUB INC	3630 OLD BLUE CREEK RD 59101
03092715301020000	B32	SNOOZY, MARK P	3403 OLD BLUE CREEK RD 59101
03092715301020000	B34	SNOOZY, MARK P	3403 OLD BLUE CREEK RD 59101
03092715305010000	B32	STATE OF MONTANA DEPARTMENT OF	OLD BLUE CREEK RD 59101
03092715320010000	B31	CITY OF BILLINGS	
03092715320010000	B32	CITY OF BILLINGS	
03092715320010000	B33	CITY OF BILLINGS	
03092715320010000	B34	CITY OF BILLINGS	
03092715401010000	B35	BILLINGS MOTORCYCLE CLUB INC	3630 OLD BLUE CREEK RD 59101
03092716103010000	B33	KING RIVER PARK LLC	1035 INTERMOUNTAIN ST
03092716103210000	B33	INLAND TRUCK PARTS CO	4020 S FRONTAGE RD
03092716103310000	B33	KING RIVER PARK LLC	3950 S FRONTAGE RD
03092716103410000	B33	KING RIVER PARK LLC	1030 INTERMOUNTAIN ST
03092716205010000	B28	MILLER TROIS LLC	7057 S BILLINGS BLVD 59101
03092716301010000	B26	STATE OF MONTANA	
03092716301010000	B28	STATE OF MONTANA	
03092716301010000	B29	STATE OF MONTANA	
03092716301010000	B30	STATE OF MONTANA	
03092716301010000	B31	STATE OF MONTANA	
03092716302010000	B28	CITY OF BILLINGS	S BILLINGS BLVD 59101
03092716409010000	B31	BILLINGS MOTORCYCLE CLUB INC	
03092716409010000	B32	BILLINGS MOTORCYCLE CLUB INC	
03092716411010000	B30	BRADLEY, LARRY L	4023 OLD BLUE CREEK RD 59101
03092716411010000	B31	BRADLEY, LARRY L	4023 OLD BLUE CREEK RD 59101
03092716411020000	B31	CLINE, LEONARD R	3907 OLD BLUE CREEK RD 59101
03092716412020000	B32	CASTRO, TINA MARIE	3601 OLD BLUE CREEK RD 59101
03092716412030000	B31	MONTANA GENERAL CORPORATION	3855 OLD BLUE CREEK RD 59101
03092716412040000	B31	HATFIELD, ROBIN & JASON	3811 OLD BLUE CREEK RD 59101
03092716412050000	B31	GALVIN, BRUCE F	3737 OLD BLUE CREEK RD 59101
03092716412050000	B32	GALVIN, BRUCE F	3737 OLD BLUE CREEK RD 59101
03092716414010000	B31	BRADLEY, LARRY L & REBECCA	
03092716414010000	B32	BRADLEY, LARRY L & REBECCA	
03092716418010000	B31	STATE OF MONTANA	
03092716418020000	B31	MILLER TROIS LLC	
03092716418020000	B33	MILLER TROIS LLC	
03092716430010000	B29	MEDINA, DOUGLAS A	
03092716430010000	B30	MEDINA, DOUGLAS A	
03092716430010000	B31	MEDINA, DOUGLAS A	
03092717403016000	B26	CITY OF BILLINGS	
03092717403016001	B27	CITY OF BILLINGS	
03092717403016000	B27	CITY OF BILLINGS	
03092717404010000	B26	YELLOWSTONE RIVER PARKS ASSOCI	
03092717404010000	B28	YELLOWSTONE RIVER PARKS ASSOCI	
03092717408016001	B26	BRACY, GEORGIA M TRUSTEE	7058 S BILLINGS BLVD 59101
03092717408016001	B27	BRACY, GEORGIA M TRUSTEE	7058 S BILLINGS BLVD 59101
03092717408016001	B28	BRACY, GEORGIA M TRUSTEE	7058 S BILLINGS BLVD 59101
03092719101010000	B19	YELLOWSTONE RIVER PARKS ASSOC	
03092719101070000	B19	KLIER, ROGER	5846 STORY RD 59101
03092719101070000	B22	KLIER, ROGER	5846 STORY RD 59101
03092719101170000	B19	PROULX, EDWARD R TRUSTEE (ETAL	STORY RD 59101
03092719103010000	B22	YELLOWSTONE RIVER PARKS ASSN I	
03092719103020000	B22	STURN, JAMES J & SHARON E	1930 MULLOWNEY LN 59101
03092719103050000	B22	RESTAD, JAMES W & BRUCE F	1920 MULLOWNEY LN 59101
03092719103059002	B22	PATTERSON, NORMAN B	1920 MULLOWNEY LN 59101
03092719103059001	B22		
03092719103059004	B22		
03092719103059003	B22		

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)	
03092719103059005	B22			
03092719103080000	B22	TRIPLE H LLC	1926 MULLOWNEY LN	
03092719103089005	B22	CAYKO, KEN	1926 MULLOWNEY LN	59101
03092719103089003	B22	FRAZIER, ROBERT	1926 MULLOWNEY LN	59101
03092719103089006	B22	LIND, STACY	1926 MULLOWNEY LN	59101
03092719103089007	B22	NIELSEN, MORRIS JR	1926 MULLOWNEY LN	59101
03092719103089004	B22	TRIPLE H LLC	1926 MULLOWNEY LN	59101
03092719103089001	B22	WOOD, MARK ANTHONY	1926 MULLOWNEY LN	59101
03092719103089009	B22			
03092719103089008	B22			
03092719103089002	B22			
03092719103089012	B22	HUNTER, PATTY	1926 MULLOWNEY LN	59101
03092719103089013	B22	KISSLER, JEFFREY	1926 MULLOWNEY LN	59101
03092719103089011	B22	LEWIS, PATTY D	1926 MULLOWNEY LN	59101
03092719103089016	B22	NIELSEN, MORRIS JR	1926 MULLOWNEY LN	59101
03092719103089017	B22	NIELSEN, MORRIS JR	1966 MULLOWNEY LN	59101
03092719103089014	B22	NIELSEN, MORRIS JR	1926 MULLOWNEY LN	59101
03092719103089019	B22	TRIPLE H LLC	1926 MULLOWNEY LN	59101
03092719103089010	B22	TRIPLE H LLC	1926 MULLOWNEY LN	59101
03092719103089018	B22	TRIPLE H LLC	1926 MULLOWNEY LN	59101
03092719103089015	B22	TURNBULL ITC LLC	1926 MULLOWNEY LN	59101
03092719103089024	B22	DAVIS, REBECCA	1926 MULLOWNEY LN	59101
03092719103089028	B22	LIND, STACY	1926 MULLOWNEY LN	59101
03092719103089023	B22	MARTINEZ, JOSE JR	1926 MULLOWNEY LN	59101
03092719103089020	B22	NIELSEN, MORRIS JR	1926 MULLOWNEY LN	59101
03092719103089025	B22	NIELSEN, MORRIS JR	1926 MULLOWNEY LN	59101
03092719103089029	B22	PATTON, JEREMY	1926 MULLOWNEY LN	59101
03092719103089027	B22	REINTSMA, MARIAN	1926 MULLOWNEY LN	59101
03092719103089021	B22	TRIPLE H LLC	1926 MULLOWNEY LN	59101
03092719103089022	B22	TRIPLE H LLC	1926 MULLOWNEY LN	59101
03092719103089026	B22			
03092719103089031	B22	GEORGESON, MIKE P	1926 MULLOWNEY LN	59101
03092719103089035	B22	GOFF, KAYDEE	1926 MULLOWNEY LN	59101
03092719103089039	B22	GRAHAM, LINDA K	1926 MULLOWNEY LN	59101
03092719103089038	B22	KUGLER, KEITH	1926 MULLOWNEY LN	59101
03092719103089030	B22	LITTLEFIELD, JEREMY D	1926 MULLOWNEY LN	59101
03092719103089036	B22	NIELSEN, MORRIS MOLLER JR	1926 MULLOWNEY LN	59101
03092719103089037	B22	NIELSON, MORRIS JR	1926 MULLOWNEY LN	59101
03092719103089033	B22	TENNESON, DONNA	1926 MULLOWNEY LN	59101
03092719103089032	B22	WILCKEN, TARA LEE	1926 MULLOWNEY LN	59101
03092719103089034	B22	WILLIAMS, CHARLES G	1926 MULLOWNEY LN	59101
03092719103089041	B22	COX, JEAN	1926 MULLOWNEY LN	59101
03092719103089043	B22	FRENCH, ROBERT & TINA	1926 MULLOWNEY LN	59101
03092719103089040	B22	HENRIKEN, ALICE M	1926 MULLOWNEY LN	59101
03092719103089042	B22	HULTGREN, HEATHER	1926 MULLOWNEY LN	59101
03092719103089044	B22	KAUFMAN, TERI S	1926 MULLOWNEY LN	59101
03092719103089046	B22	LIESCH, BART	1926 MULLOWNEY LN	59101
03092719103089049	B22	NIELSEN, MORRIS	1926 MULLOWNEY LN	59101
03092719103089047	B22	NIELSEN, MORRIS JR	1926 MULLOWNEY LN	59101
03092719103089048	B22	NIELSEN, MORRIS JR	1926 MULLOWNEY LN	59101
03092719103089045	B22	WALLER, BRUCE	1926 MULLOWNEY LN	59101
03092719103089053	B22	LEMONS, CARL R	1926 MULLOWNEY LN	59101
03092719103089051	B22	NIELSEN, MORRIS JR	1926 MULLOWNEY LN	59101
03092719103089050	B22	NIELSEN, MORRIS MOLLER JR	1926 MULLOWNEY LN	59101
03092719103089052	B22	SMITH, BONNIE R	1926 MULLOWNEY LN	59101
03092719103200000	B19	BLAIN, GERHART S	1930 MULLOWNEY LN	59101
03092719103200000	B20	BLAIN, GERHART S	1930 MULLOWNEY LN	59101
03092719103200000	B22	BLAIN, GERHART S	1930 MULLOWNEY LN	59101

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03092719107010000	B19	WEBER, JAMES A	5908 ELYSIAN RD 59101
03092719107010000	B22	WEBER, JAMES A	5908 ELYSIAN RD 59101
03092719110010000	B19	MASBRUCH, DENNIS R	
03092719110010000	B22	MASBRUCH, DENNIS R	
03092719110020000	B19	MASBRUCH, DENNIS R	
03092719110020000	B22	MASBRUCH, DENNIS R	
03092719111010000	B22	MASBRUCH, DENNIS R	
03092719111020000	B22	MASBRUCH, DENNIS R	
03092719111030000	B22	MASBRUCH, DENNIS R	
03092719113020000	B22	MARTIN PROPERTIES INC	
03092719113030000	B22	MARTIN PROPERTIES INC	5623 STORY RD
03092719113040000	B22	ENERGY & ENVIRONMENTAL MEASURE	1744 MULLOWNEY LN
03092719201010000	B19	WALTER, LEROY J & NORMA J	1843 EAST LN 59101
03092719301010000	B16	JEAN L NILSON REVOCABLE TRUST	2201 EAST LN 59101
03092719301010000	B17	JEAN L NILSON REVOCABLE TRUST	2201 EAST LN 59101
03092719302010000	B16	NILSON, HENRY W	2201 EAST LN 59101
03092719302010000	B17	NILSON, HENRY W	2201 EAST LN 59101
03092719302010000	B18	NILSON, HENRY W	2201 EAST LN 59101
03092719304010000	B16	GOODMAN, KELLY	
03092719304010000	B17	GOODMAN, KELLY	
03092719304010000	B18	GOODMAN, KELLY	
03092719307010000	B17	GOODMAN, KELLY	
03092719307010000	B18	GOODMAN, KELLY	
03092719310010000	B18	GOODMAN, KELLY	EAST LN 59101
03092719313010000	B18	GOODMAN, KELLY	
03092719317010000	B18	NILSON, HENRY W	
03092719317010000	B19	NILSON, HENRY W	
03092719321010000	B18	JEAN L NILSON REVOCABLE TRUST	
03092719321010000	B19	JEAN L NILSON REVOCABLE TRUST	
03092719401010000	B18	BLAIN, ALDONNA &	
03092719401010000	B19	BLAIN, ALDONNA &	
03092719401010000	B20	BLAIN, ALDONNA &	
03092719401010000	B21	BLAIN, ALDONNA &	
03092720102010000	B28	WHITE, PATRICK P	1939 BLUE CREEK RD 59101
03092720102500000	B25	LEE, DAWN N &	
03092720102500000	B26	LEE, DAWN N &	
03092720175010000	B24	ST OF MONTANA DEPT OF STATE LA	
03092720175010000	B25	ST OF MONTANA DEPT OF STATE LA	
03092720175010000	B26	ST OF MONTANA DEPT OF STATE LA	
03092720175010000	B27	ST OF MONTANA DEPT OF STATE LA	
03092720177010000	B27	CITY OF BILLINGS	
03092720190016000	B26	CITY OF BILLINGS	
03092720190016000	B27	CITY OF BILLINGS	
03092720206370000	B23	MCCALL DEVELOPMENT INC	
03092720206370000	B27	MCCALL DEVELOPMENT INC	
03092720206390000	B23	MCCALL DEVELOPMENT INC	
03092720206390000	B24	MCCALL DEVELOPMENT INC	
03092720206390000	B27	MCCALL DEVELOPMENT INC	
03092720206430000	B23	CITY OF BILLINGS	
03092720206430000	B27	CITY OF BILLINGS	
03092720210010000	B22	ROMAN CATHOLIC BISHOP OF GT FA	
03092720210010000	B23	ROMAN CATHOLIC BISHOP OF GT FA	
03092720308010000	B21	BLAIN, ALDONNA F	
03092720308010000	B24	BLAIN, ALDONNA F	
03092720407010000	B24	BONOGOFSKY, THOMAS FRANK & DEB	2020 TIRED MAN RD 59101
03092720407010000	B25	BONOGOFSKY, THOMAS FRANK & DEB	2020 TIRED MAN RD 59101
03092721101010000	B29	BUREAU OF LAND MANAGEMENT	
03092721150010000	B29	PCC INC	

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03092721150010000	B30	PCC INC	
03092721150010000	B31	PCC INC	
03092721201010000	B28	PCC INC	
03092721202010000	B28	PARRISH, JAN R	
03092721202010000	B29	PARRISH, JAN R	
03092721202010000	B30	PARRISH, JAN R	
03092721202020000	B29	PARRISH, JAN	4404 OLD BLUE CREEK RD
03092721206010000	B29	MEDINA, DOUG	
03092721206010000	B30	MEDINA, DOUG	
03092721209010000	B26	CITY OF BILLINGS	
03092721209010000	B28	CITY OF BILLINGS	
03092721209010000	B29	CITY OF BILLINGS	
03092721211010000	B29	CITY OF BILLINGS	
03092721213010000	B26	CITY OF BILLINGS	
03092721213010000	B28	CITY OF BILLINGS	
03092730101010000	B17	BLAIN, ALDONNA &	
03092730101010000	B18	BLAIN, ALDONNA &	
03092730301010000	B17	BLAIN, ALMON R & GERHART S 3/5	
03092730301010000	B47	BLAIN, ALMON R & GERHART S 3/5	
03103312410310000	C10	HOYT, HUDSON A	2206 MARY ST 59105
03103312411010000	C10	YELLOWSTONE RIVER PARKS ASSOCI	MARY ST 59105
03103313101010000	C09	CHRISTOFERSON, BRYAN E & CANDA	2011 BARRETT RD 59105
03103313101010000	C10	CHRISTOFERSON, BRYAN E & CANDA	2011 BARRETT RD 59105
03103313120350000	C10	CONOCOPHILLIPS COMPANY	
03103313125010000	C10	DARLING INTERNATIONAL INC	
03103313401010000	C07	WEINREICH, BERYL D & DAUNA L	2003 ELAINE ST 59105
03103313401010000	C08	WEINREICH, BERYL D & DAUNA L	2003 ELAINE ST 59105
03103313405010000	C08	EXXON CORPORATION	
03103313460010000	C09	KOELZER, MATTHEW C	2015 BARRETT RD 59105
03103313460210000	C07	KOELZER, THOMAS C & MARY	BARRETT RD 59105
03103313460210000	C08	KOELZER, THOMAS C & MARY	BARRETT RD 59105
03103313460210000	C09	KOELZER, THOMAS C & MARY	BARRETT RD 59105
03103323303010000	C03	YELLOWSTONE COUNTY	
03103323303010000	C04	YELLOWSTONE COUNTY	
03103323303010000	C05	YELLOWSTONE COUNTY	
03103323401020000	C04	MCDANEL, EVELYN M	1254 YELLOWSTONE RIVER R 59105
03103323401030000	C04	CARPENTER, LYNN L & JAMIE L	1302 YELLOWSTONE RIVER R 59105
03103323401040000	C04	STOUDT, EDWARD O & JOYCE E TRU	1308 YELLOWSTONE RIVER R
03103323401050000	C04	CETRONE, DONALD L & PATRICIA J	1314 YELLOWSTONE RIVER R 59105
03103323401060000	C04	ROMERO, LLOYD B	1320 YELLOWSTONE RIVER R 59105
03103323401070000	C04	ROCH, KENNETH A & CECILIA A R	1326 YELLOWSTONE RIVER R 59105
03103323401080000	C04	ANGUIANO, ALVIN & CARLA	1334 YELLOWSTONE RIVER R 59105
03103323401090000	C04	YELLOWSTONE COUNTY	YELLOWSTONE RIVER R 59105
03103323401090000	C05	YELLOWSTONE COUNTY	YELLOWSTONE RIVER R 59105
03103323408010000	C05	HOBBS, NORMAN D	
03103323408100000	C05	HOBBS, NORMAN D	1415 YELLOWSTONE RIVER R
03103323408110000	C05	HOBBS, NORMAN D	YELLOWSTONE RIVER R 59105
03103323409010000	C05	SHERNER, JONATHAN L & TRACEY J	
03103323409020000	C05	SHERNER, JONATHAN L & TRACEY J	1535 YELLOWSTONE RIVER R 59105
03103323409030000	C05	KEENEY, SEAN	1529 YELLOWSTONE RIVER R 59105
03103323409060000	C05	RANGITSCH, EDWIN D	1517 YELLOWSTONE RIVER R 59105
03103323409070000	C05	RANGITSCH, EDWIN D	1517 YELLOWSTONE RIVER R 59105
03103324201310000	C06	CLAUSE, ROY E & JOCK E	1505 WICKS LN 59105
03103324201310000	C07	CLAUSE, ROY E & JOCK E	1505 WICKS LN 59105
03103324201310000	C08	CLAUSE, ROY E & JOCK E	1505 WICKS LN 59105
03103324201600000	C06	CLAUSE, ROY E & JOCK E	
03103324202206000	C05	CHERRY CREEK DEVELOPMENT INC	
03103324202400000	C06	CHERRY CREEK DEVELOPMENT INC	

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03103324202400000	C07	CHERRY CREEK DEVELOPMENT INC	
03103324202600000	C05	CHERRY CREEK DEVELOPMENT INC	
03103324202600000	C06	CHERRY CREEK DEVELOPMENT INC	
03103324202609004	C06	BAUER, DELVIN E & ARLENE A	8 CHERRY CREEK LOOP 59105
03103324202609006	C06	BRYSON, MORAYMA LUCERO	11 VANDALAY ST 59105
03103324202609005	C06	CHRISTMAN, THAN EDWARD & TINA	10 CHERRY CREEK LOOP 59105
03103324202609001	C06	HORN, ISAAC J	2 CHERRY CREEK LOOP 59105
03103324202609003	C06	KYLE, JOHN	6 CHERRY CREEK LOOP 59105
03103324202609008	C06		
03103324202609002	C06		
03103324202609007	C06		
03103324202609009	C06		
03103324202609019	C06	ERICKSON, MICHAEL J	16 VANDALAY ST 59105
03103324202609011	C06	GEORGE, LYLE ALLEN & CANDACE E	1 VANDALAY ST 59105
03103324202609012	C06	HUNTER, PAT & RICHARD	2 VANDALAY ST 59105
03103324202609018	C06	MANN, JOHN E	14 VANDALAY ST 59105
03103324202609010	C06	PAULSON, LYNETTE E	3 VANDALAY ST 59105
03103324202609015	C06		
03103324202609013	C06		
03103324202609016	C06		
03103324202609014	C06		
03103324202609017	C06		
03103324202609027	C06	BLACK, DIANE L	3 TARTARIAN ST 59105
03103324202609023	C06		
03103324202609021	C06		
03103324202609026	C06		
03103324202609022	C06		
03103324202609024	C06		
03103324202609020	C06		
03103324202609025	C06		
03103324202609039	C06	DEVOUS, TONI LYNN	22 TARTARIAN ST 59105
03103324202609038	C06		
03103324202609037	C06		
03103324202609036	C06		
03103324202609035	C06		
03103324202609041	C06	ELITE HOMES	21 SKEENA ST 59105
03103324202609040	C06	SCHWINDT, CHRISTOPHER LEE & HE	23 SKEENA ST 59105
03103324202609042	C06		
03103324202609066	C06	ALDEN, KAREN	25 LAPIN ST 59105
03103324202609062	C06	PRETTY PAINT, VICTOR R JR &	22 SKEENA ST 59105
03103324202609065	C06	PUGLIESE, THERALL	27 LAPIN ST 59105
03103324202609063	C06	RACINE, TESSA	24 SKEENA ST 59105
03103324202609064	C06	THOMEN, RONDA RUSCIEL	26 SKEENA ST 59105
03103324202609067	C06		
03103324202609097	C06	DARNELL, IVA WALLIS	33 JUBILEE ST 59105
03103324202609095	C06	MACHLER, MICHAEL STEPHEN	34 LAPIN ST 59105
03103324202609096	C06	SAUNDERS, BRYCE LANE	35 JUBILEE ST 59105
03103324202609094	C06	SMITH, DARRELL & RANDY	32 LAPIN ST 59105
03103324202609131	C06		
03103324202609133	C06		
03103324202609132	C06		
03103324202609171	C05, C06		
03103324206010000	C07	WIEGAND, REX C & CHRISTINA M	1585 RIVERVIEW CIR 59105
03103324206040000	C06	FORTNER, BLAINE	1545 RIVERVIEW CIR 59105
03103324206040000	C07	FORTNER, BLAINE	1545 RIVERVIEW CIR 59105
03103324206070000	C06	BAISCH, DAVID R & KATHLEEN A	1505 RIVERVIEW CIR 59105
03103324206070000	C07	BAISCH, DAVID R & KATHLEEN A	1505 RIVERVIEW CIR 59105
03103324210300000	C05	OSTERMILLER, ROGER & SHELLEY	1155 BITTEROOT DR 59105

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03103324260220000	C07	SCOTT, LEEZA & BRETT &	1975 OUTLOOK DR 59105
03103324260250000	C07	CLAUSE, ROY E & BETTY	1995 OUTLOOK DR 59105
03103324260300000	C07	ELLIS, ROBERT E & PAMELA O	2000 OUTLOOK DR 59105
03103324260350000	C07	FLEURY, RYAN	1980 OUTLOOK DR 59105
03103324260380000	C07	CARLSON, CRAIG M & JOSIE	1960 OUTLOOK DR 59105
03103324260530000	C07	SALSBURY, WAYNE E & YVONNE E	1745 RIVERVIEW DR 59105
03103324260560000	C07	LAMBRECHT, MIKE & ELAINE B	1765 RIVER VIEW DR 59105
03103324260590000	C07	MAKINEN, BRAD T	
03103324260640000	C07	CLAUSE, JOCK E & KATHY L	1940 RIVER OVERLOOK DR 59105
03103324301010000	C03	EXXON CORPORATION	
03103324301010000	C04	EXXON CORPORATION	
03103324301010000	C05	EXXON CORPORATION	
03103324401050000	C05	EXXON MOBIL CORPORATION	
03103324401050000	C06	EXXON MOBIL CORPORATION	
03103324401050000	C07	EXXON MOBIL CORPORATION	
03103324401050000	C08	EXXON MOBIL CORPORATION	
03103326101040000	C03	YELLOWSTONE COUNTY	LOMOND LN 59101
03103326101040000	C04	YELLOWSTONE COUNTY	LOMOND LN 59101
03103326101060000	C03	JORGENSEN, FRED JR	505 LOMOND LN
03103326101060000	C04	JORGENSEN, FRED JR	505 LOMOND LN
03103326102020000	C04	CORCORAN PARTNERSHIP	532 KLENCH LN
03103326201010000	C02	YELLOWSTONE COUNTY	
03103326203010000	C02	HENRY, ROGER D & SHARON L	516 SANDY LN 59105
03103326203010000	C03	HENRY, ROGER D & SHARON L	516 SANDY LN 59105
03103326204010000	C02	WAGENMAN, NEAL A	1117 DOON AVE
03103326204010000	C03	WAGENMAN, NEAL A	1117 DOON AVE
03103326204040000	C03	DAVIS, WESLEY E & RHONDA L	1123 DOON AVE
03103326204060000	C03	WAGENMAN, NEAL A & CHERYL K	534 BONNIE LN
03103326204100000	C03	WAGENMAN, NEAL A & CHERYL K	BONNIE LN 59101
03103326204110000	C03	LEE, DONALD R	BONNIE LN 59101
03103326204120000	C03	GUGLER, RICHARD & JUANITA	BONNIE LN 59101
03103326204220000	C03	WHITBY, DAN C	534 LOMOND LN 59101
03103326204230000	C03	WHITBY, DAN	LOMOND LN 59101
03103326204240000	C03	CLEVELAND, SANDRA L	546 LOMOND LN 59101
03103326204250000	C03	CLEVELAND, SANDRA L	LOMOND LN 59101
03103326205010000	C02	MUNOZ, LARRY & SONYA C	445 BENCH BLVD 59105
03103326205020000	C02	BAILEY, JONATHAN	455 BENCH BLVD 59105
03103326205030000	C02	LINDELL, MICHAEL P	507 BENCH BLVD 59105
03103326205040000	C02	ZIESKE, SHARON L	515 BENCH BLVD 59105
03103326205050000	C02	NIXON, SALLY A	519 BENCH BLVD 59105
03103326205060000	C02	DICKINSON, VICKI & BRENDA	521 BENCH BLVD 59105
03103326205070000	C02	EDWARDS, THOMAS G & ALMA L	545 BENCH BLVD 59105
03103326205090000	C02	OLHEISER, EUGENE P & BRENDA I	603 BENCH BLVD 59105
03103326205100000	C02	OLHEISER, EUGENE P & BRENDA I	609 BENCH BLVD 59105
03103326205100000	C03	OLHEISER, EUGENE P & BRENDA I	609 BENCH BLVD 59105
03103326205510000	C02	ZIMMERER, STEVE & BRENDA	819 TWO MOON PARK RD 59105
03103326206010000	C02	YELLOWSTONE COUNTY	
03103326206020000	C02	CITY OF BILLINGS	
03103326206020000	C03	CITY OF BILLINGS	
03103326206030000	C03	MONTANA DEPARTMENT OF HIGHWAYS	
03103326207010000	C02	YELLOWSTONE COUNTY (PARK)	
03103326207020000	C02	YELLOWSTONE COUNTY	
03103326207020000	C03	YELLOWSTONE COUNTY	
03103326207020000	C04	YELLOWSTONE COUNTY	
03103326208090000	C02	NOTTINGHAM, GLENNIS	605 CLAUSE CIR 59105
03103326208100000	C02	LATTIMER, JOHN C	609 CLAUSE CIR 59105
03103326208300000	C02	CLAUSE, ROY E	613 CLAUSE CIR
03103326208300000	C03	CLAUSE, ROY E	613 CLAUSE CIR

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03103326208308001	C02	CLAUSE, ROY	615 CLAUSE CIR 59105
03103326208360000	C03	JAMES, JACKIE	855 JOYCE CIR 59105
03103326208370000	C03	MCKEEN, JERRY	851 JOYCE CIR 59105
03103326208378001	C03	JONASEN, RANDY L & GENA M	851 JOYCE CIR 59105
03103326208380000	C03	PRICE, ALICE B & FRED L	847 JOYCE CIR 59105
03103326208390000	C03	REA, AARON L	843 JOYCE CIR 59105
03103326210010000	C02	YELLOWSTONE COUNTY	
03103326210010000	C03	YELLOWSTONE COUNTY	
03103326301010000	C01	YELLOWSTONE COUNTY	
03103326301020000	C01	PONDEROSA PROPERTIES LLC	803 CERISE RD
03103326301040000	C01	AA LAND LLC	61 CERISE RD
03103326301300000	C01	NELSON, KELLY C	140 CERISE RD 59101
03103326302010000	C01	RED CASTLE ENTERPRISES, LLC	CERISE RD
03103326307010000	C01	HUSCHKA, MELVIN	
03103326307010000	C02	HUSCHKA, MELVIN	
03103326307020000	C01	NELSON, KELLY C	ISLAND PARK RD 59101
03103326307020000	C02	NELSON, KELLY C	ISLAND PARK RD 59101
03103326307030000	C01	NELSON, KELLY C	80 CERISE RD 59101
03103326307030000	C02	NELSON, KELLY C	80 CERISE RD 59101
03103326308010000	C02	DAILEY, THOMAS A	1007 ISLAND PARK RD 59101
03103326308020000	C02	MAKEEFF, TERRY A & JULIE D	1035 ISLAND PARK RD
03103326320200000	C01	DUKE, RAYMOND L & LORRAINE I	CERISE RD
03103327104040000	C02	HENSCHEL-HANSEN, SUZANNE ROBIN	368 BENCH BLVD 59105
03103327104050000	C02	SPARROW, KEVIN A & TERI J	376 BENCH BLVD 59105
03103327106050000	C02	WEHRMAN, MARK & GINGER	404 BENCH BLVD 59105
03103327106067000	C02	HEAVENLY HOMES INC	CROSS ST 59105
03103327106070000	C02	MARTIN, MATT	440 BENCH BLVD 59105
03103327106080000	C02	ECKHARDT, ROBERT V & SHARMAN L	444 BENCH BLVD 59105
03103327106090000	C02	EGGUM, CAROLE	450 BENCH BLVD 59105
03103327106200000	C02	MCNEIL, JOHN D & VERANICA RAI	412 BENCH BLVD 59105
03103327106300000	C02	WEISEL, GENE R & CHAR J	740 ORILLA ST 59105
03103327108040000	C02	MYERS, KEITH	506 BENCH BLVD 59105
03103327401010000	C01	YELLOWSTONE COUNTY	308 6TH AVE N 59101
03103327401010000	C02	YELLOWSTONE COUNTY	308 6TH AVE N 59101
03103327401020000	C01	YELLOWSTONE COUNTY	BENCH BLVD 59105
03103327401020000	C02	YELLOWSTONE COUNTY	BENCH BLVD 59105
03103327402010000	C01	BENDER, DONALD WILLIAM	
03103334000000000	B45		
03103334101010000	B45	FARMERS UNION CENTRAL EXCHANGE	
03103334101020000	B43	CITY OF BILLINGS	
03103334101020000	B44	CITY OF BILLINGS	
03103334101020000	B45	CITY OF BILLINGS	
03103334103010000	B45	LOCKWOOD IRRIGATION DISTRICT	
03103334103020000	B45	VANDERBERG, JAMES L & MILEEN G	
03103334105050000	C01	LOCKWOOD AREA/YELLOWSTONE WATE	1 CERISE RD 59101
03103334105060000	C01		
03103334150010000	C01	STATE OF MONTANA DEPARTMENT OF	US HIGHWAY 87 E 59101
03103334401010000	B43	UNITED STATES OF AMERICA	
03103334401010000	B44	UNITED STATES OF AMERICA	
03103400000000000	C13 - C17		
03103403203010000	C16	HARMS, GAIL S	4815 BALD EAGLE BLVD 59037
03103403203010000	C17	HARMS, GAIL S	4815 BALD EAGLE BLVD 59037
03103403203020000	C17	KUTT, GARY S	3819 BALD EAGLE BLVD 59037
03103403203060000	C17	LAEMMLE, JOE M	5175 CREEKMORE RD 59037
03103403203080000	C17	LAEMMLE, JOE M	5165 CREEKMORE RD 59037
03103403203100000	C17	CRANE, ROBERT A & DEBORAH A	5199 CREEKMORE LOOP 59037
03103404101010000	C15	LUND, STEVEN R	
03103404104080000	C15	LUND, STEVEN R	

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03103404104080000	C16	LUND, STEVEN R	
03103404104160000	C16	DEAN, ANDY D & STACY A	4715 BALD EAGLE BLVD 59037
03103404201010000	C14	SCHROEDER & MICHAEL INC	
03103404201010000	C15	SCHROEDER & MICHAEL INC	
03103404206010000	C14	STRECKER, BRADLEY JOHN & LISA	
03103404206010000	C15	STRECKER, BRADLEY JOHN & LISA	
03103404206010000	C16	STRECKER, BRADLEY JOHN & LISA	
03103404206010000	C17	STRECKER, BRADLEY JOHN & LISA	
03103404301010000	C14	O'DONNELL LIVESTOCK & RANCH CO	
03103404307010000	C14	LUND, STEVEN R	
03103404307080000	C14	LUND, STEVEN R	
03103404307080000	C15	LUND, STEVEN R	
03103404307240000	C14	LUND, STEVEN R	
03103404307240000	C15	LUND, STEVEN R	
03103404411010000	C15	LUND, STEVEN R	
03103404411040000	C15	LUND, STEVEN R	
03103405101030000	C14	SCHROEDER & MICHAEL INC	3900 DOVER RD 59105
03103405201010000	C13	MICHAEL LAND INC	3502 DOVER RD 59105
03103405201010000	C14	MICHAEL LAND INC	3502 DOVER RD 59105
03103407201500000	C11	YELLOWSTONE RIVER PARKS ASSOC	
03103407201500000	C12	YELLOWSTONE RIVER PARKS ASSOC	
03103407301010000	C10	YELLOWSTONE RIVER PARKS ASSOCI	
03103407301010000	C11	YELLOWSTONE RIVER PARKS ASSOCI	
03103407401010000	C11	JOHNSON LANE MATERIALS, LLC	
03103407401010000	C12	JOHNSON LANE MATERIALS, LLC	
03103408000000000	C12, C13		
03103408101010000	C12	LC PROPERTIES, LLC	3553 COULSON RD 59101
03103408101010000	C13	LC PROPERTIES, LLC	3553 COULSON RD 59101
03103408111010000	C13	YELLOWSTONE COUNTY	
03103408111010000	C14	YELLOWSTONE COUNTY	
03103408190010000	C13	LC PROPERTIES, LLC	
03103408201010000	C12	BUREAU OF LAND MANAGEMENT	
03103408201010000	C13	BUREAU OF LAND MANAGEMENT	
03103408290010000	C12	SINDELAR, JAMES H	3114 DOVER RD 59105
03103408290010000	C13	SINDELAR, JAMES H	3114 DOVER RD 59105
03103408290010000	C14	SINDELAR, JAMES H	3114 DOVER RD 59105
03103408350010000	C12	BUREAU OF LAND MANAGEMENT	
03103408403140000	C13	STANHOPE, CLYDE R	
03103408403170000	C13	STANHOPE, CLYDE R	
03103408403180000	C13	MCNANEY, DON D & CATHERINE C	
03103408403200000	C13	STANHOPE, CLYDE R	2931 WATSON RD 59101
03103408403200000	C14	STANHOPE, CLYDE R	2931 WATSON RD 59101
03103408470010000	C13	MONTANA RAIL LINK	COULSON RD
03103409201010000	C14	O'DONNELL LIVESTOCK & RANCH CO	
03103417201010000	C09	JDW INDUSTRIAL PARK 2, LLC	3306 COULSON RD
03103417201010000	C10	JDW INDUSTRIAL PARK 2, LLC	3306 COULSON RD
03103418211010000	C10	DARLING INTERNATIONAL INC	
03103418301010000	C08	MAURITZSON, MARK W	
03103418301010000	C09	MAURITZSON, MARK W	
03103418301100000	C08	EXXON CORPORATION	
03103418301100000	C09	EXXON CORPORATION	
03103418301200000	C09	MAURITZSON, MARK W	
03103419201100000	C07	EXXON CORPORATION	
03103419201100000	C08	EXXON CORPORATION	
03103419320010000	C07	EXXON CORPORATION	
03113412106010000	C27	REYER, DANIEL L & ARDYS L	PINTO DR 59079
03113412106020000	C27	WOODS, WALTER W III	7540 PINTO DR 59079
03113412106030000	C27	SEATON, JAMES M &	7610 PINTO DR 59079

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03113412106040000	C27	GONG, THERESA	PINTO DR 59079
03113412106050000	C27	GONG, THERESA	7648 PINTO DR 59079
03113412106150000	C27	MARTINSON, EDDY G & SHARON ANN	7625 SPEAR DR 59079
03113412106160000	C27	SHARP, WILLIAM J	7609 SPEAR DR 59079
03113412117010000	C29	GREENWOOD, JAMES L & LILA K	7765 PINTO DR 59079
03113412117010000	C30	GREENWOOD, JAMES L & LILA K	7765 PINTO DR 59079
03113412301150000	C26	MCSWEYN, ROBERT & PEGGY D TRUS	6617 YEOMAN RD 59079
03113412301200000	C26	MCSWEYN, ROBERT & PEGGY D TRUS	
03113412401010000	C26	CNR LIVING TRUST	
03113412401010000	C27	CNR LIVING TRUST	
03113412403010000	C27	REYER, DANIEL L & ARDYS L	PINTO DR 59079
03113412403070000	C26	YELLOWSTONE COUNTY (PARK)	
03113412403070000	C27	YELLOWSTONE COUNTY (PARK)	
03113412403080000	C27	BOKUM, VICTORIA REGINALD	
03113412403090000	C27	BOKUM, VICTORIA REGINALD	7419 SPEAR DR 59079
03113412403100000	C27	BARTA, RICHARD C	7420 SPEAR DR 59079
03113412403110000	C27	SANNES, RONALD R SR & LINDA D	7525 SPEAR DR 59079
03113412403120000	C27	DALE, STEVEN G & CHERI L	7539 SPEAR DR 59079
03113412404010000	C26	YELLOWSTONE COUNTY	
03113412404010000	C27	YELLOWSTONE COUNTY	
03113412414100000	C27	STEFFES, MARK B & LINDA	7528 BUCKSKIN DR 59079
03113412414110000	C27	ANDERSON, CLINT & JANETTE	7504 BUCKSKIN DR 59079
03113412415010000	C27	RIPLEY, JAMES MICHAEL & JANICE	BUCKSKIN DR 59079
03113412415030000	C27	RIPLEY, J MICHAEL & JANICE L	7505 BUCKSKIN DR 59079
03113412415040000	C27	JENSEN, JAMES E & LEANNE R	7538 SPEAR DR 59079
03113413101020000	C28	APPLE CREEK EXOTICS RANCH INC	
03113413101030000	C25	ROBBINS, PAUL E	
03113413101030000	C26	ROBBINS, PAUL E	
03113413101030000	C28	ROBBINS, PAUL E	
03113413101100000	C26	TETER, JAMES & KATHLEEN C	
03113413101100000	C27	TETER, JAMES & KATHLEEN C	
03113413101100000	C28	TETER, JAMES & KATHLEEN C	
03113413201050000	C26	ROBBINS, PAUL E	
03113413201070000	C26	ROBBINS, PAUL E	6442 YEOMAN RD 59079
03113413201130000	C26	BRENNAN, RALPH	
03113413201140000	C25	BRENNAN, RALPH	6827 FREY RD 59079
03113413201140000	C26	BRENNAN, RALPH	6827 FREY RD 59079
03113413301010000	C25	MONTANA DEPT OF STATE LANDS	
03113413301010000	C28	MONTANA DEPT OF STATE LANDS	
03113413302010000	C23	MONTANA DEPT OF STATE LANDS	
03113413302010000	C24	MONTANA DEPT OF STATE LANDS	
03113413302010000	C25	MONTANA DEPT OF STATE LANDS	
03113413302010000	C26	MONTANA DEPT OF STATE LANDS	
03113413302010000	C28	MONTANA DEPT OF STATE LANDS	
03113414101500000	C26	FISCUS, DENISE RENEE	
03113414103010000	C26	BARKHUFF, RANDY	6207 OSNESS RD 59079
03113414105100000	C26	CARLSON, ALVIN B & DAISY M &	
03113414105150000	C26	CARLSON, ALVIN B & DAISY M &	
03113414105200000	C26	BLAKELEY, JAMES R	6815 JOSHUA TREE LN 59079
03113414110010000	C26	CARLSON, ALVIN B & DAISY M &	FREY RD 59079
03113414110100000	C26	JONES, MARK & MARDELLA	6828 FREY RD 59079
03113414115010000	C26	SCHNOOR, MIKE	6942 FREY RD 59079
03113414120010000	C26	CARLSON, ALVIN B & DAISY M &	FREY RD 59079
03113414301010000	C25	GOGGINS, PATRICK K	6703 SHEPHERD RD 59079
03113414301010000	C26	GOGGINS, PATRICK K	6703 SHEPHERD RD 59079
03113414406090000	C25	TURNER, JOHN DUNCAN	FREY RD 59079
03113414410010000	C25	GUTIERREZ, REFUGIO J & JUANITA	
03113414410020000	C25	POWELL, DAMON R	6220 SIGNAL POINT DR 59079

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03113414410030000	C25	KIELING, SHANE & JENNIFER	6230 SIGNAL POINT DR 59079
03113414410040000	C25	CRESSWELL, JAMES J & MARGARET	6248 SIGNAL POINT DR 59079
03113414410050000	C25	STEFFANICH, MICHAEL K	6250 SIGNAL POINT DR 59079
03113414410060000	C25	STEFFANICH, MICHAEL K	
03113414410070000	C25	GEORGE, MICHAEL J	
03113414410080000	C25	SUDERMAN, BETTE J &	6235 SIGNAL POINT DR 59079
03113414410090000	C25	WEINZETL, DONALD M	
03113414410100000	C25	KIMBALL, CAROLINE A & ROBERT W	
03113414410100000	C26	KIMBALL, CAROLINE A & ROBERT W	
03113414413010000	C25	TUCKER, CHRIS & CARRIE	6707 FREY RD 59079
03113414413010000	C26	TUCKER, CHRIS & CARRIE	6707 FREY RD 59079
03113414413030000	C25	WIESE, JANEL R	6744 JOSHUA TREE LN 59079
03113414413030000	C26	WIESE, JANEL R	6744 JOSHUA TREE LN 59079
03113414413040000	C25	MYHRE, JUSTIN R & LYNN R	6227 SIGNAL POINT DR 59079
03113414415010000	C25	ROSS, BETTY L	6353 OSNESS RD 59079
03113414415010000	C26	ROSS, BETTY L	6353 OSNESS RD 59079
03113414415020000	C25	MUHLBEIER, LESTER L & CAROLYN	OSNESS RD 59079
03113414415020000	C26	MUHLBEIER, LESTER L & CAROLYN	OSNESS RD 59079
03113414415040000	C26	MUHLBEIER, LESTER L & CAROLYN	6336 OSNESS RD 59079
03113414415050000	C26	MUHLBEIER, LESTER L & CAROLYN	FREY RD 59079
03113414415060000	C26	BARTA, RICK	6817 FREY RD
03113414415070000	C26	MUHLBEIER, LESTER L & CAROLYN	FREY RD 59079
03113414415100000	C25	ROSS, BETTY L & MINDI J	OSNESS RD 59079
03113423104010000	C24	RAUSCH, KEITH A	6125 FREY RD 59079
03113423403010000	C23		
03113423407170000	C24	DONNES, FRANK C & CINDY E	FREY RD 59079
03113423410010000	C24	DONNES, FRANK C & CINDY E	FREY RD 59079
03113423410030000	C24	JEFFRIES, VALERIA A	5849 FREY RD 59079
03113423410070000	C24	CARLSON, RONALD E	5923 SCHULZ PL 59079
03113424101170000	C28	EISELE, CHARLES & DEBORAH	1704 N 2ND RD 59037
03113424101300000	C28	TRAUTMAN, GREGORY & KIMBERLEY	1742 N 2ND RD 59037
03113424110010000	C28	APPLE CREEK EXOTICS RANCH INC	
03113424111030000	C28	APPLE CREEK EXOTICS RANCH INC	
03113424201010000	C24	O'NEILL, TERRENCE M	FREY RD 59079
03113424201010000	C25	O'NEILL, TERRENCE M	FREY RD 59079
03113424205010000	C23	WITTMAN, HAROLD & LINDA	115 US HIGHWAY 312 59037
03113424205010000	C24	WITTMAN, HAROLD & LINDA	115 US HIGHWAY 312 59037
03113424205010000	C28	WITTMAN, HAROLD & LINDA	115 US HIGHWAY 312 59037
03113424301010000	C23	GODDARD, CHARLES L & JOHANNA M	
03113424301040000	C23	GODDARD, CHARLES L	8017 US HIGHWAY 312 59079
03113424303010000	C23	GOGGINS, PATRICK K & FLORENCE	
03113424304020000	C23	BRADSHAW, MERRITT W II	1650 NAHMIS AVE 59037
03113424305010000	C23	DONNES, FRANK C & CINDY E	5807 FREY RD 59079
03113424305010000	C24	DONNES, FRANK C & CINDY E	5807 FREY RD 59079
03113424401010000	C23	SPORTSMAN'S CONSERV CLUB OF HU	
03113424402010000	C23	SPORTSMAN'S CONSERV CLUB OF HU	
03113424408010000	C23	HEGLE, JAMES G & JILL J	1660 BEECHWOOD ST 59037
03113424408100000	C23	DUSSAULT, RAYMOND J & SUSAN M	1670 BEECHWOOD ST N 59037
03113424408200000	C23	CHARLTON, JAMES R & BEVERLY	1680 BEECHWOOD ST 59037
03113424408300000	C23	HIRNING, DAVID JOHN	1690 BEECHWOOD ST 59037
03113424409010000	C23	HANCE, TIMOTHY W & LEINANI L	1655 BEECHWOOD ST 59037
03113424409050000	C23	TAYLOR, CECIL R & MARY LYNN	1665 BEECHWOOD ST 59037
03113424409100000	C23	BURNETT, DARLENE L	1675 BEECHWOOD ST 59037
03113424409150000	C23	CASTRO, VINCENT & KELLY R	120 3RD ST N 59037
03113424410070000	C23	DELL, CHRISTOPHER MATTHEW & SH	DATE ST 59037
03113424410140000	C23	HEPPNER, DEAN B & JULIE A	1640 DATE AVE 59037
03113424410210000	C23	HEPPNER, DEAN B & JULIE A	DATE ST 59037
03113424420010000	C23	HUNTLEY PROJECT IRRIGATION DIS	

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03113424420140000	C23	PETRIE, MARTIN B	125 3RD ST N 59037
03113424420140000	C28	PETRIE, MARTIN B	125 3RD ST N 59037
03113424430010000	C28	WITTMAN, DONALD & JOANNE	115 US HIGHWAY 312 59037
03113425000000000	C22		
03113425114200000	C23	MARTINSON, CATHY N	1541 SHOPIS AVE 59037
03113425115010000	C23	PETERSON, JOHN A	103 PERITSE AVE 59037
03113425115030000	C23	KARKI, HENRY	107 PERITSE AVE 59037
03113425115040000	C23	MAHANA, DONALD E & MARIE S	109 PERITSE AVE 59037
03113425115050000	C23	SWANSON, CHARLES E & VALERIE R	113 PERITSE AVE 59037
03113425115060000	C23	WAGNER, R BRYAN & ANDREA T	PERITSE AVE 59037
03113425115100000	C23	PETERSON, KRUEGER, KIMBERLY EL	1572 NAHMIS AVE 59037
03113425115110000	C23	PETERSON, KRUEGER, KIMBERLY EL	NAHMIS AVE 59037
03113425115120000	C23	LAEMMLE, JOE M	
03113425115130000	C23	PETERSON, JOHN A	
03113425119010000	C23	SPORTMAN'S CONSERVATION CLUB	
03113425205010000	C22	BUREAU OF RECLAMATION	82 NORTHERN AVE 59037
03113425205020000	C22	FIRE DEPT OF TOWN OF HUNTLEY	76 NORTHERN AVE 59037
03113425205030000	C22	OBLANDER, ROGER S	68 NORTHERN AVE 59037
03113425207010000	C22, C23		
03113425208010000	C22	SHELDON, RAY W & JOYCE R	NORTHERN AVE 59037
03113425208010000	C23	SHELDON, RAY W & JOYCE R	NORTHERN AVE 59037
03113425208020000	C22	SHELDON, RAY W & JOYCE	81 NORTHERN AVE 59037
03113425208020000	C23	SHELDON, RAY W & JOYCE	81 NORTHERN AVE 59037
03113425208040000	C23	BRITTON, STELLA P	91 NORTHERN AVE 59037
03113425208050000	C23	JORE, ERIC J & KATHERINE A	93 NORTHERN AVE 59037
03113425208060000	C23	MACROW, VIRGINIA M &	95 NORTHERN AVE 59037
03113425208090000	C23	FRIELING, PHILLIP J & JULIE M	
03113425208100000	C23	FRIELING, PHILLIP J & JULIE M	94 PERITSE AVE 59037
03113425208110000	C23	STENE, KAREN R & EARL H	90 PERITSE AVE 59037
03113425208120000	C23	STENE, KAREN R & EARL H	
03113425208130000	C23	STENE, EARL H & KAREN R ETAL	
03113425208140000	C22	STENE, EARL	PERITSE AVE 59037
03113425208140000	C23	STENE, EARL	PERITSE AVE 59037
03113425210010000	C23	BUCKLEY, TYLER & SHANNON	83 PERITSE AVE 59037
03113425210030000	C23	SHERMAN, MARY JO	87 PERITSE AVE 59037
03113425210050000	C23	DOTSON, RUSSELL A & BRENDA M	93 PERITSE AVE 59037
03113425210070000	C23	ASAY, BILLIE C & DENIS B TRUST	95 PERITSE AVE 59037
03113425210080000	C23	COOK, DONNA L	1548 SHOPIS AVE 59037
03113425210100000	C23	STENE, EARL	
03113425213020000	C23	HANCOCK, HOMER L	
03113425213030000	C23	SHERMAN, MARY JO	
03113425213040000	C23	DOTSON, RUSSELL A & BRENDA M	
03113425213050000	C23	ASAY, BILLIE C TRUSTEE	
03113425213060000	C23	COOK, DONNA L	
03113425213070000	C23	PETERSON, JOHN A	
03113425213080000	C23	LAEMMLE, JOE M & ELLA C D	1578 NAHMIS AVE
03113425230010000	C21	GOGGINS, PATRICK K & FLORENCE	
03113425230010000	C22	GOGGINS, PATRICK K & FLORENCE	
03113425230010000	C23	GOGGINS, PATRICK K & FLORENCE	
03113425304010000	C21	USDI-BUREAU OF RECLAMATION	
03113425304010000	C22	USDI-BUREAU OF RECLAMATION	
03113426101010000	C22	GOGGINS, PATRICK K	
03113426101010000	C23	GOGGINS, PATRICK K	
03113426301010000	C21	GOGGINS, PATRICK K & FLORENCE	
03113426301010000	C22	GOGGINS, PATRICK K & FLORENCE	
03113433401010000	C16	STRECKER, BRADLEY JOHN & LISA	4012 HOSKINS RD 59105
03113433401010000	C17	STRECKER, BRADLEY JOHN & LISA	4012 HOSKINS RD 59105
03113434109010000	C19	GOGGINS, PATRICK K	

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03113434303010000	C17	STRECKER, BRADLEY JOHN & LISA	4329 POWMER RD 59105
03113434303010000	C19	STRECKER, BRADLEY JOHN & LISA	4329 POWMER RD 59105
03113434403010000	C17	USDI-BUREAU OF RECLAMATION	
03113434403010000	C18	USDI-BUREAU OF RECLAMATION	
03113435207010000	C19	GOGGINS, PATRICK K & FLORENCE	4415 VERMILLION RD 59105
03113435207010000	C20	GOGGINS, PATRICK K & FLORENCE	4415 VERMILLION RD 59105
03113435207010000	C21	GOGGINS, PATRICK K & FLORENCE	4415 VERMILLION RD 59105
03113435390010000	C18	USDI-BUREAU OF RECLAMATION	
03113435390010000	C20	USDI-BUREAU OF RECLAMATION	
03113435390010000	C21	USDI-BUREAU OF RECLAMATION	
03113436290010000	C21	USDI-BUREAU OF RECLAMATION	
03113505101010000	C32	WALTER, JEAN S	
03113505101010000	C33	WALTER, JEAN S	
03113505201010000	C31	GOGGINS, PATRICK K & FLORENCE	
03113505201010000	C32	GOGGINS, PATRICK K & FLORENCE	
03113505206010000	C32	GENEY, JERRY P & DONNA R	N 5TH RD 59037
03113505206300000	C32	GENEY, JERRY P & DONNA R	2262 N 5TH RD 59037
03113505309010000	C31	JARDINE, CONNIE M	2259 N 4TH RD 59037
03113505309010000	C32	JARDINE, CONNIE M	2259 N 4TH RD 59037
03113506101010000	C32	EAGLE BEND COMMUNITY ASSOC INC	
03113506201550000	C31	EAGLE BEND OF THE YELLOWSTONE	FOX RUN 59079
03113506201600000	C31	EAGLE BEND OF THE YELLOWSTONE	
03113506201650000	C31	EAGLE BEND OF THE YELLOWSTONE	
03113506201700000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506201750000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506201800000	C31	WEKSLER INVESTMENT CORP	EAGLE BEND BLVD 59079
03113506201850000	C31	WEKSLER INVESTMENT CORP	EAGLE BEND BLVD 59079
03113506201900000	C31	COOLAHAN, BENJAMIN M &	7925 EAGLE BEND BLVD 59079
03113506201950000	C31	VAUGHT, M LYNN & TANYA FAYE	7975 EAGLE BEND BLVD 59079
03113506201950000	C32	VAUGHT, M LYNN & TANYA FAYE	7975 EAGLE BEND BLVD 59079
03113506201990000	C31	HINKLE, CASEY VICTOR LEE &	8025 EAGLE BEND BLVD 59079
03113506201990000	C32	HINKLE, CASEY VICTOR LEE &	8025 EAGLE BEND BLVD 59079
03113506204200000	C30	WEKSLER INVESTMENT CORP	EAGLE BEND BLVD 59079
03113506204250000	C30	WEKSLER INVESTMENT CORP	EAGLE BEND BLVD 59079
03113506204250000	C31	WEKSLER INVESTMENT CORP	EAGLE BEND BLVD 59079
03113506204300000	C31	WEKSLER INVESTMENT CORP	EAGLE BEND BLVD 59079
03113506204350000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506204400000	C31	EAGLE BEND OF THE YELLOWSTONE	
03113506204450000	C31	EAGLE BEND OF THE YELLOWSTONE	WHITETAIL RUN 59079
03113506204550000	C31	EAGLE BEND OF THE YELLOWSTONE	WILD GAME TRL 59079
03113506204600000	C31	EAGLE BEND OF THE YELLOWSTONE	WILD GAME TRL 59079
03113506205010000	C30	EAGLE BEND OF THE YELLOWSTONE	PELICAN COVE 59079
03113506205100000	C30	HOFFMAN, DAVID A	EAGLE BEND BLVD 59079
03113506205150000	C30	HOFFMAN, DAVID A	7300 EAGLE BEND BLVD 59079
03113506205200000	C30	LASALLE, DOUG H	7350 EAGLE BEND BLVD 59079
03113506205250000	C30	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205300000	C30	HARVEY, LANCE G & GAYLE J	7450 EAGLE BEND BLVD 59079
03113506205300000	C31	HARVEY, LANCE G & GAYLE J	7450 EAGLE BEND BLVD 59079
03113506205350000	C31	JONES, STEPHEN E	EAGLE BEND BLVD 59079
03113506205400000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205450000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205500000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205550000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205600000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205650000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205700000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205750000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079
03113506205800000	C31	EAGLE BEND OF THE YELLOWSTONE	EAGLE BEND BLVD 59079

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03113506205850000	C31	WEKSLER INVESTMENT CORP	EAGLE BEND BLVD 59079
03113506205900000	C31	KESSEL, DEAN D &	8050 EAGLE BEND BLVD 59079
03113506205900000	C32	KESSEL, DEAN D &	8050 EAGLE BEND BLVD 59079
03113506301010000	C30	EAGLE BEND COMMUNITY ASSOC INC	
03113506402010000	C30	GOGGINS, PATRICK K & FLORENCE	
03113506402010000	C31	GOGGINS, PATRICK K & FLORENCE	
03113507101010000	C29	HALVORSON, ROBERT D	2104 N 4TH RD 59037
03113507101060000	C29	HALVORSON, ROBERT D	
03113507110010000	C29	GANNON, JAMES H & KATHRYN A	2194 N 4TH RD 59037
03113507110010000	C30	GANNON, JAMES H & KATHRYN A	2194 N 4TH RD 59037
03113507201010000	C27	SHANNON, DAVID W & VICKI L	PINTO DR 59079
03113507201010000	C29	SHANNON, DAVID W & VICKI L	PINTO DR 59079
03113507201040000	C27	ROLLINS, MYRON B & ERMA S	PINTO DR 59079
03113507201040000	C29	ROLLINS, MYRON B & ERMA S	PINTO DR 59079
03113507201070000	C27	GREENBERG, LYNNETTE C	7725 PINTO DR 59079
03113507201070000	C29	GREENBERG, LYNNETTE C	7725 PINTO DR 59079
03113507201100000	C29	GREENWOOD, JAMES L & LILA K	7745 PINTO DR 59079
03113507201140000	C29	HARRINGTON, DUWAYNE A	PINTO DR 59079
03113507201140000	C30	HARRINGTON, DUWAYNE A	PINTO DR 59079
03113507206010000	C29	MICHUNOVICH, MARKO J	
03113507206010000	C30	MICHUNOVICH, MARKO J	
03113507301010000	C29	YELLOWSTONE COUNTY	
03113507305030000	C27	SLUSHER, MONTIE B	
03113507305030000	C28	SLUSHER, MONTIE B	
03113507305030000	C29	SLUSHER, MONTIE B	
03113507401010000	C28	GABEL, CLARICE M	
03113507407010000	C28	GABEL, LEROY & SYDNEY	2056 N 4TH RD 59037
03113507407010000	C29	GABEL, LEROY & SYDNEY	2056 N 4TH RD 59037
03113518111010000	C28	MAHAN, JOHN M	
03113518201010000	C28	GABEL, DUANE H	1922 N 3RD RD 59037
03113518211010000	C28	TETER, JAMES & KATHLEEN C	1994 N 3RD RD 59037
03113518320010000	C28	GABEL, LEROY & SYDNEY	
03113519201140000	C28	GABEL, LEROY & SYDNEY	
03113519201170000	C28	HUPKA, MYLES D	1767 N 2ND RD 59037
03123413101010000	C43	SHELHAMER, LLOYD JR & LINDA K	
03123422101010000	C38	SHELHAMER, LLOYD JR & LINDA K	
03123422101010000	C39	SHELHAMER, LLOYD JR & LINDA K	
03123423101010000	C39	SHELHAMER, LLOYD JR & LINDA K	
03123423101010000	C40	SHELHAMER, LLOYD JR & LINDA K	
03123423101010000	C41	SHELHAMER, LLOYD JR & LINDA K	
03123423403010000	C40	WORDEN TRADING COMPANY	
03123423403010000	C41	WORDEN TRADING COMPANY	
03123424101010000	C42	BUREAU OF LAND MANAGEMENT	
03123424101010000	C43	BUREAU OF LAND MANAGEMENT	
03123424201010000	C41	SHELHAMER, LLOYD JR & LINDA K	
03123424201010000	C42	SHELHAMER, LLOYD JR & LINDA K	
03123424301010000	C41	WORDEN TRADING COMPANY	
03123424302010000	C41	GARNIER REVOCABLE TRUST	
03123424305010000	C41	SUKUT, RICK L & LISA M	1291 W M RD 59088
03123424305010000	C42	SUKUT, RICK L & LISA M	1291 W M RD 59088
03123424305100000	C41	SUKUT, RICK L & LISA M	W M RD 59088
03123424305100000	C42	SUKUT, RICK L & LISA M	W M RD 59088
03123424310010000	C41	WORDEN TRADING COMPANY	
03123424401010000	C41	TALKINGTON, TODD R & MARNI K	2899 N 13TH RD 59088
03123424401010000	C42	TALKINGTON, TODD R & MARNI K	2899 N 13TH RD 59088
03123424404010000	C42	PETERSON, KEVIN D & AMY JO	
03123424404210000	C42	PETERSON, KEVIN D & AMY JO	2870 N 14TH RD 59088
03123424404410000	C42	GALAVOTTI, EDWARD L	

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03123424404610000	C42	SANDVICK, DYLAN E	
03123424410010000	C42	SCHMIDT, PHIL W	2891 N 13TH RD 59088
03123424480010000	C42	HILDEBRAND, RONALD D & KATHERI	2890 N 14TH RD 59088
03123425211010000	C41	HANSEN, ROBERT MARK	
03123425216010000	C41	KRAGT, MICHAEL & TRACEY	2788 N 13TH RD 59088
03123426101010000	C40	STOICK, MARJORIE	2715 N 11TH RD 59088
03123426101070000	C40	STOICK, MARJORIE E	
03123426109010000	C40	BALZER, TERRAL G & TAMARA L	
03123426109010000	C41	BALZER, TERRAL G & TAMARA L	
03123426116010000	C40	WORDEN TRADING COMPANY	
03123426116010000	C41	WORDEN TRADING COMPANY	
03123426201010000	C39	KEMBEL, ELMER & ELSIE J	
03123426201010000	C40	KEMBEL, ELMER & ELSIE J	
03123427101010000	C37	FOX, LARRY W & GOLDA D	933 W L RD 59088
03123427101010000	C38	FOX, LARRY W & GOLDA D	933 W L RD 59088
03123427101010000	C39	FOX, LARRY W & GOLDA D	933 W L RD 59088
03123427201020000	C37	SHELHAMER, LLOYD JR & LINDA K	
03123427201020000	C38	SHELHAMER, LLOYD JR & LINDA K	
03123427201020000	C39	SHELHAMER, LLOYD JR & LINDA K	
03123427301010000	C36	RIVERVIEW RANCH & FEEDLOT CORP	
03123427306010000	C36	VAN LUCHENE, LARRY	
03123427306010000	C37	VAN LUCHENE, LARRY	
03123427311010000	C36	RIVERVIEW RANCH & FEEDLOT CORP	
03123427311010000	C37	RIVERVIEW RANCH & FEEDLOT CORP	
03123428101010000	C36	SHELHAMER, LLOYD JR & LINDA K	10115 CABIN CREEK RD 59079
03123428101010000	C37	SHELHAMER, LLOYD JR & LINDA K	10115 CABIN CREEK RD 59079
03123428306010000	C35	KANIA, BRUCE G	SCANDIA RD 59079
03123428306010000	C36	KANIA, BRUCE G	SCANDIA RD 59079
03123428306100000	C35	KANIA, BRUCE G	SCANDIA RD 59079
03123428306100000	C36	KANIA, BRUCE G	SCANDIA RD 59079
03123428401020000	C36	VAN LUCHENE, LARRY V	
03123428407010000	C36	RIVERVIEW RANCH & FEEDLOT CORP	
03123431401020000	C32	CURRY, RUSSELL E JR & MERILEE	8844 BARTON PL 59079
03123431401250000	C31	MITCHELL, JOY LA MAE	
03123431401250000	C32	MITCHELL, JOY LA MAE	
03123431406010000	C31	MITCHELL, JOY LA MAE	
03123431406010000	C32	MITCHELL, JOY LA MAE	
03123431406070000	C32	MITCHELL, JOY LA MAE	8802 BARTON PL 59079
03123431406100000	C32	HARR, CAROL M	8829 BARTON PL 59079
03123431406150000	C32	MONTANA LAND DISTRIBUTION LLC	
03123432101010000	C34	LANGMAN, ARTHUR S	8416 SCANDIA RD 59079
03123432102010000	C33	LANGMAN, ARTHUR S	
03123432102010000	C34	LANGMAN, ARTHUR S	
03123432103010000	C33	LANGMAN, ARTHUR S	
03123432103010000	C34	LANGMAN, ARTHUR S	
03123432104010000	C33	LANGMAN, ARTHUR S	
03123432104010000	C34	LANGMAN, ARTHUR S	
03123432105010000	C34	LANGMAN, ARTHUR S	
03123432106010000	C34	KANIA, BRUCE	
03123432201200000	C33	WESCHENFELDER, DANIEL	9443 BARTON PL 59079
03123432201200000	C34	WESCHENFELDER, DANIEL	9443 BARTON PL 59079
03123432307010000	C32	KINGHORN, JOHN H & HATTIE	
03123432307010000	C33	KINGHORN, JOHN H & HATTIE	
03123432401010000	C32	WALTER, JEAN S	2413 N 5TH RD 59037
03123432401010000	C33	WALTER, JEAN S	2413 N 5TH RD 59037
03123432401010000	C34	WALTER, JEAN S	2413 N 5TH RD 59037
03123432402010000	C33	BUREAU OF LAND MANAGEMENT	
03123432402010000	C34	BUREAU OF LAND MANAGEMENT	

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Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03123432404010000	C33	MAHAN, JOHN	
03123433102010000	C35	BUREAU OF LAND MANAGEMENT	
03123433104010000	C35	RIVERVIEW RANCH & FEEDLOT CORP	2510 N 8TH RD 59037
03123433104010000	C36	RIVERVIEW RANCH & FEEDLOT CORP	2510 N 8TH RD 59037
03123433201010000	C34	STOCKTON, JAMES G TRUST	
03123433216010000	C34	KANIA, BRUCE G	
03123433216010000	C35	KANIA, BRUCE G	
03123433301010000	C33	WALTER, JEAN S	
03123433301010000	C34	WALTER, JEAN S	
03123433314010000	C34	SHERMAN, FLORIAN R JR & SANDRA	2454 N 7TH RD 59037
03123433314010000	C35	SHERMAN, FLORIAN R JR & SANDRA	2454 N 7TH RD 59037
03123433314200000	C35	SHERMAN, FLORIAN R JR & SANDRA	
03123433411010000	C35	STOCKTON, JAMES G TRUST	
03123433411030000	C35	EVERGREEN DAIRY FARM INC	
03123434211010000	C36	RIVERVIEW RANCH & FEEDLOT CORP	
03123434216010000	C36	VAN LUCHENE, LARRY	2555 N 9TH RD 59088
03123513101010000	C50	ROWE, WILLIAM JAMES & ANNIE J	2555 BOZEMAN TRL 59088
03123513201010000	C49	MONTANA DEPARTMENT OF FISH, WI	
03123513201010000	C50	MONTANA DEPARTMENT OF FISH, WI	
03123514101010000	C48	MONTANA DEPARTMENT OF FISH, WI	
03123514101010000	C49	MONTANA DEPARTMENT OF FISH, WI	
03123515101010000	C46	MONTANA DEPARTMENT OF FISH, WI	
03123515101010000	C47	MONTANA DEPARTMENT OF FISH, WI	
03123515101010000	C48	MONTANA DEPARTMENT OF FISH, WI	
03123516101010000	C45	STATE OF MT TRUST LAND	
03123516101010000	C46	STATE OF MT TRUST LAND	
03123517101010000	C44	MONTANA DEPARTMENT OF FISH, WI	
03123517101010000	C45	MONTANA DEPARTMENT OF FISH, WI	
03123518101010000	C43	BUREAU OF LAND MANAGEMENT	
03123518101010000	C44	BUREAU OF LAND MANAGEMENT	
03123519101010000	C43	MOORE, CARL T & MELBOURNE A	
03123519107010000	C43	ROBERTSON, DAVID R & CHU MANN	2904 N 16TH RD 59088
03123519107010000	C44	ROBERTSON, DAVID R & CHU MANN	2904 N 16TH RD 59088
03123519204010000	C42	MOORE, KENNETH RAY &	
03123519204010000	C43	MOORE, KENNETH RAY &	
03123519213010000	C42	ROWE, WILLIAM JAMES & ANNIE J	
03123519213010000	C43	ROWE, WILLIAM JAMES & ANNIE J	
03123519220010000	C42	STATE OF MONTANA DEPARTMENT OF	N 14TH RD 59088
03123519220010000	C43	STATE OF MONTANA DEPARTMENT OF	N 14TH RD 59088
03123519310010000	C42	WARD, DANNY & JERALDINE E	2857 N 14TH RD 59088
03123519310010000	C43	WARD, DANNY & JERALDINE E	2857 N 14TH RD 59088
03123519414100000	C43	RESER, RICHARD B & LOLA MAE	2868 N 16TH RD 59088
03123519414100000	C44	RESER, RICHARD B & LOLA MAE	2868 N 16TH RD 59088
03123519490050000	C44	TROUTMAN, GEORGE EDWARD	2878 N 16TH RD 59088
03123519490070000	C44	TROUTMAN, GEORGE EDWARD	2888 N 16TH RD 59088
03123520101010000	C44	BROKEN ARROW RANCH	
03123520101010000	C45	BROKEN ARROW RANCH	
03123520107010000	C44	KROGER, EDGAR P & PATRICIA A	2936 N 18TH RD 59088
03123520107010000	C45	KROGER, EDGAR P & PATRICIA A	2936 N 18TH RD 59088
03123520160010000	C44	BROKEN ARROW RANCH	2913 N 17TH RD 59088
03123520201010000	C44	LITTLER, MICHAEL D & HELEN S	2905 N 16TH RD 59088
03123520207010000	C44	BROKEN ARROW RANCH	2910 N 17TH RD 59088
03123520207019005	C44	BROKEN ARROW RANCH	2912 N 17TH RD 59088
03123520207019004	C44	BROKEN ARROW RANCH	2914 N 17TH RD 59088
03123520207019001	C44	BROKEN ARROW RANCH	2910 N 17TH RD 59088
03123520207019003	C44	BROKEN ARROW RANCH	2916 N 17TH RD 59088
03123520311010000	C44	PUKALL, LLOYD R & DONNA R	N 16TH RD 59088
03123520316010000	C44	BROKEN ARROW RANCH	

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03123520419010000	C45	LUCAS, JOHN E & MARY A	2902 N 18TH RD 59088
03123520450010000	C44	FENTON, WARD & ALICE	N 18TH RD 59088
03123520450010000	C45	FENTON, WARD & ALICE	N 18TH RD 59088
03123520490010000	C44	BROKEN ARROW RANCH	N 17TH RD 59088
03123521104010000	C46	BANDEROB, ARVIN H &	N 19TH RD 59088
03123521111010000	C45	MONTANA DEPARTMENT OF FISH, WI	
03123521111010000	C46	MONTANA DEPARTMENT OF FISH, WI	
03123521111010000	C47	MONTANA DEPARTMENT OF FISH, WI	
03123521201010000	C45	SJOLSETH, SHERYL A & DEAN	2901 N 18TH RD 59088
03123521201100000	C45	IRVINE, LACINDA M	2921 N 18TH RD 59088
03123521201200000	C45	DEPT OF FISH, WILDLIFE & PARKS	
03123521204020000	C45	PARKS, LANCE K	N 19TH RD 59088
03123521204020000	C46	PARKS, LANCE K	N 19TH RD 59088
03123521311010000	C45	IRVINE, LACINDA M	
03123521311010000	C46	IRVINE, LACINDA M	
03123521316010000	C45	PARKS, LANCE K	
03123521316010000	C46	PARKS, LANCE K	
03123521401010000	C46	BANDEROB, ARVIN H &	
03123521411010000	C46	BANDEROB, ARVIN H &	2855 N 19TH RD 59088
03123521416010000	C46	SEDER, HARRY & ANNE D	
03123522101010000	C46	BUREAU OF LAND MANAGEMENT	
03123522101010000	C47	BUREAU OF LAND MANAGEMENT	
03123522101010000	C48	BUREAU OF LAND MANAGEMENT	
03123522306010000	C46	SEDER, HARRY & ANNE D	
03123522306010000	C47	SEDER, HARRY & ANNE D	
03123522306010000	C48	SEDER, HARRY & ANNE D	
03123522311010000	C46	SEDER, HARRY & ANNE D	
03123522311010000	C47	SEDER, HARRY & ANNE D	
03123522411010000	C47	SEDER, HARRY & ANNE D	
03123522411010000	C48	SEDER, HARRY & ANNE D	
03123523101010000	C48	MONTANA DEPARTMENT OF FISH, WI	BOZEMAN TRAIL RD 59088
03123523101010000	C49	MONTANA DEPARTMENT OF FISH, WI	BOZEMAN TRAIL RD 59088
03123523301010000	C48	SEDER, HARRY & ANNE D	
03123523303010000	C48	SEDER, HARRY & ANNE D	
03123523401010000	C48	JOHANNES, KENNETH J & JOLEEN M	
03123523401010000	C49	JOHANNES, KENNETH J & JOLEEN M	
03123523401110000	C48	JOHANNES, NORMAN NEAL & POLLY	
03123523401110000	C49	JOHANNES, NORMAN NEAL & POLLY	
03123523404010000	C49	JOHANNES, NOLAN & LINDA S	
03123524101010000	C50	SCHMIEDING, KELLY ANN	
03123524301010000	C49	JOHNSON, JON & KAREN	
03123524304010000	C49	ANDERSON, TODD K	2461 W M RD 59088
03123524304010000	C50	ANDERSON, TODD K	2461 W M RD 59088
03123524401010000	C49	JONES, KELLY ANN	2537 W M RD 59088
03123524401010000	C50	JONES, KELLY ANN	2537 W M RD 59088
03123524401200000	C49	JONES, KELLY ANN	
03123524401200000	C50	JONES, KELLY ANN	
03123524403010000	C50	HEYD, LORENZ C & JEFFREY L & K	
03123525101010000	C49	ZELMER, DORA JEAN BAUM	
03123525101010000	C50	ZELMER, DORA JEAN BAUM	
03123525214010000	C49	NIKITSCHENKO, MARY JANE	2770 N 25TH RD 59088
03123612301010000	C59	BOW-TIE, INC	
03123613000000000	C58		
03123613103010000	C57	FREITAG, MARY JANE &	
03123613103010000	C58	FREITAG, MARY JANE &	
03123613201010000	C57	BOW-TIE, INC	
03123613201010000	C58	BOW-TIE, INC	
03123613201010000	C59	BOW-TIE, INC	

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03123614101010000	C56	BOW-TIE, INC	
03123614101010000	C57	BOW-TIE, INC	
03123614301010000	C56	FREITAG, MARY JANE &	
03123614401010000	C56	FREITAG, MARY JANE &	
03123614401010000	C57	FREITAG, MARY JANE &	
03123615101010000	C54	TALCOTT, JANET	
03123615101010000	C55	TALCOTT, JANET	
03123615101010000	C56	TALCOTT, JANET	
03123616101010000	C53	OBLENDER, KENT	
03123616101010000	C54	OBLENDER, KENT	
03123617401010000	C53	OBLENDER, KENT A & TRACI L	3041 BUNDY RD 59088
03123617401310000	C52, C53		
03123618101010000	C50	ROWE, WILLIAM JAMES & ANNIE J	2678 BOZEMAN TRL 59088
03123618101010000	C51	ROWE, WILLIAM JAMES & ANNIE J	2678 BOZEMAN TRL 59088
03123619104010000	C51	T-HANGING HEART, INC	
03123619104010000	C52	T-HANGING HEART, INC	
03123619206010000	C50	ROWE, WILLIAM JAMES & ANNIE J	
03123619206010000	C51	ROWE, WILLIAM JAMES & ANNIE J	
03123619301010000	C50	HEYD, LORENZ C & JEFFREY L & K	
03123619301010000	C51	HEYD, LORENZ C & JEFFREY L & K	
03123619401010000	C51	BUREAU OF LAND MANAGEMENT	
03123619402010000	C51	BUREAU OF LAND MANAGEMENT	
03123619405010000	C51	HEIN, WILLIAM & ARLENE	
03123620203010000	C52	T-HANGING HEART, INC	
03123620203010000	C53	T-HANGING HEART, INC	
03123620301010000	C51	HEIN, WILLIAM & ARLENE	
03123620301010000	C52	HEIN, WILLIAM & ARLENE	
03123620301010000	C53	HEIN, WILLIAM & ARLENE	
03123620351010000	C51, C52		
03123620402040000	C52	KETTERLING, GERALDINE	2854 BUNDY RD 59088
03123620402040000	C53	KETTERLING, GERALDINE	2854 BUNDY RD 59088
03123620405010000	C52	BOW-TIE, INC	BUNDY RD 59088
03123620405010000	C53	BOW-TIE, INC	BUNDY RD 59088
03123621104010000	C54	BUREAU OF LAND MANAGEMENT	
03123621104010000	C55	BUREAU OF LAND MANAGEMENT	
03123621110010000	C53	OBLENDER, KENT	
03123621110010000	C54	OBLENDER, KENT	
03123621403010000	C53	BUREAU OF LAND MANAGEMENT	
03123621403010000	C54	BUREAU OF LAND MANAGEMENT	
03123621411010000	C54	TAYLOR, ANDREW PAUL & DANIEL C	
03123622000000000	C54, C55		
03123622101010000	C54	BUREAU OF LAND MANAGEMENT	
03123622101010000	C55	BUREAU OF LAND MANAGEMENT	
03123622101010000	C56	BUREAU OF LAND MANAGEMENT	
03123622103010000	C55	OBLENDER, WILBUR A & LORETTA J	
03123622302010000	C54	BUREAU OF LAND MANAGEMENT	
03123622302010000	C55	BUREAU OF LAND MANAGEMENT	
03123622307010000	C54	SHERRODD, GARY E & PATTY ANN	
03123622307010000	C55	SHERRODD, GARY E & PATTY ANN	
03123622406010000	C55	OBLENDER, WILBUR A & LORETTA J	
03123623000000000	C55, C56		
03123623101010000	C56	FREITAG, MARY JANE &	
03123623111010000	C56	FREITAG, MARY JANE &	
03123623111010000	C57	FREITAG, MARY JANE &	
03123623315010000	C55	OBLENDER, WILBUR A & LORETTA J	
03123623315010000	C56	OBLENDER, WILBUR A & LORETTA J	
03123623320010000	C56	FREITAG, MARY JANE &	
03123623320040000	C56	OBLENDER, WILBUR A & LORETTA J	

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03123623320070000	C56	OBLENDER, WILBUR A & LORETTA J	
03123623320090000	C56	FREITAG, MARY JANE &	
03123623320110000	C56	FREITAG, MARY JANE &	
03123623320140000	C56	OBLENDER, WILBUR A & LORETTA J	
03123623321010000	C56	FREITAG, MARY JANE &	
03123623321040000	C56	FREITAG, MARY JANE &	
03123623321060000	C56	FREITAG, MARY JANE &	
0312362344001001L	C56	BNSF RAILWAY COMPANY	
03123623441010000	C56	FREITAG, MARY JANE &	
03123623442010000	C56	FREITAG, MARY JANE &	
03123623442050000	C56	FREITAG, MARY JANE &	
03123624000000000	C56 - C58		
03123624101010000	C57	FREITAG, MARY JANE &	2875 S 37TH RD 59064
03123624106010000	C57	FREITAG, MARY JANE &	
03123624106010000	C58	FREITAG, MARY JANE &	
03123624201010000	C56	GEE, LAVADA N	
03123624201010000	C57	GEE, LAVADA N	
03123624250010000	C57	GEE, LAVADA N	2ND ST S 59064
03123624306010000	C57	SAN ISIDORE & CO INC A MT CORP	2879 S 37TH RD 59064
03123701000000000	C66 - C68		
03123701203010000	C66	T-K FARMS LLC	
03123701203010000	C67	T-K FARMS LLC	
03123701203010000	C68	T-K FARMS LLC	
03123701307010000	C66	FEELEY, WILLIAM J	CUSTER FRONTAGE RD 59064
03123701309010000	C66	TOP WATER PROPERTIES LLC	
03123701401400000	C66	SPORT MONTANA LLC	
03123701401400000	C67	SPORT MONTANA LLC	
03123701401600000	C66	SPORT MONTANA LLC	
03123701401600000	C67	SPORT MONTANA LLC	
03123701401700000	C66	SPORT MONTANA LLC	
03123701401700000	C67	SPORT MONTANA LLC	
03123701401750000	C67	SPORT MONTANA LLC	
03123701401800000	C67	SPORT MONTANA LLC	
03123701401800000	C68	SPORT MONTANA LLC	
03123702000000000	C65, C66		
03123702102010000	C65	T-K FARMS LLC	4850 KELLER WELBORN RD 59088
03123702102010000	C66	T-K FARMS LLC	4850 KELLER WELBORN RD 59088
03123702103030000	C65	TOP WATER PROPERTIES LLC	
03123702201010000	C65	TOP WATER PROPERTIES LLC	
03123702201100000	C64	SIAN, STEVEN P & LORRI	
03123702201100000	C65	SIAN, STEVEN P & LORRI	
03123702202010000	C65	TOP WATER PROPERTIES LLC	
03123702204010000	C65	DSS RANCH LLC	
03123702301010000	C64	SIAN, STEVEN P & LORRI	
03123702301010000	C65	SIAN, STEVEN P & LORRI	
03123702305010000	C65	KUNTZ, E CODY & SUSAN F	
03123702401010000	C65	KUNTZ, E CODY & SUSAN F	
03123702401010000	C66	KUNTZ, E CODY & SUSAN F	
03123702409010000	C65	TOP WATER PROPERTIES LLC	
03123702409010000	C66	TOP WATER PROPERTIES LLC	
03123703201010000	C64	DSS RANCH LLC	
03123703201010000	C65	DSS RANCH LLC	
03123703301010000	C63	DSS RANCH LLC	
03123703301010000	C64	DSS RANCH LLC	
03123703401010000	C64	THOMPSON, TIMOTHY J	
03123703430010000	C64	JENSEN DAIRY, INC	
03123703490010000	C64	THOMPSON, TIMOTHY J	
03123703490010000	C65	THOMPSON, TIMOTHY J	

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03123704201010000	C62	DSS RANCH LLC		
03123704201010000	C63	DSS RANCH LLC		
03123704201010000	C64	DSS RANCH LLC		
03123704404010000	C63	BUREAU OF LAND MANAGEMENT		
03123704404010000	C64	BUREAU OF LAND MANAGEMENT		
03123705101010000	C60	DSS RANCH LLC		
03123705101010000	C61	DSS RANCH LLC		
03123705101010000	C62	DSS RANCH LLC		
03123707201010000	C59	ALTHOFF, RICHARD C		
03123707201010000	C60	ALTHOFF, RICHARD C		
03123707305010000	C59	FREITAG, MARY JANE &		
03123707401010000	C59	STROBBE, RUBY M TRUSTEE OF RUB		
03123707401010000	C60	STROBBE, RUBY M TRUSTEE OF RUB		
03123707405010000	C60	CROW TRIBE OF INDIANS THE		
03123708101010000	C60	PIERCE, ROBERT L & GLADYS J		
03123708101010000	C61	PIERCE, ROBERT L & GLADYS J		
03123708211010000	C60	GROSSI, GEORGE		
03123708211010000	C61	GROSSI, GEORGE		
03123708211010000	C62	GROSSI, GEORGE		
03123708301010000	C60	WATSON, MARK & SHIRLEY		
03123708305010000	C60	WATSON, MARK & SHIRLEY		
03123708305010000	C61	WATSON, MARK & SHIRLEY		
03123708309010000	C60	STROBBE, RUBY M TRUSTEE OF RUB		
03123708460010000	C61	BUZANOWSKI, BERNARD JR & STACI	4365 CUSTER FRONTAGE RD	59064
03123708460010000	C62	BUZANOWSKI, BERNARD JR & STACI	4365 CUSTER FRONTAGE RD	59064
03123709000000000	C62, C63			
03123709105010000	C63	SIAN, HERMAN & JOY M (AKA) JOY		
03123709205010000	C62	MILL CREEK FARM INC		
03123709205010000	C63	MILL CREEK FARM INC		
03123709217010000	C62	DSS RANCH LLC		
03123710000000000	C63			
03123710190050000	C63	THOMPSON, TIMOTHY J	4524 CUSTER FRONTAGE RD	59064
03123710190050000	C64	THOMPSON, TIMOTHY J	4524 CUSTER FRONTAGE RD	59064
03123710201010000	C63	SIAN, HERMAN & JOY M (AKA) JOY		
03123710205010000	C63	SIAN, HERMAN & JOY M (AKA) JOY		
03123710205010000	C64	SIAN, HERMAN & JOY M (AKA) JOY		
03123718000000000	C58			
03123718101010000	C59	STROBBE, RUBY M TRUSTEE		
03123718101010000	C60	STROBBE, RUBY M TRUSTEE		
03123718111010000	C60	CROW TRIBE OF INDIANS THE		
03123718201010000	C58	FREITAG, MARY JANE &		
03123718201010000	C59	FREITAG, MARY JANE &		
03123718204010000	C58	FREITAG, MARY JANE &		
03123718204010000	C59	FREITAG, MARY JANE &		
03123718401010000	C58	ROBINSON, ALLEN & SANDY		
03123905000000000	C69, C70			
03123905101010000	C69	PATTERSON LAND & LIVESTOCK CO		
03123906000000000	C68, C69			
03123906101010000	C67	PATTERSON LAND & LIVESTOCK CO		
03123906101010000	C68	PATTERSON LAND & LIVESTOCK CO		
03123906101010000	C69	PATTERSON LAND & LIVESTOCK CO		
03133036401010000	C68	T-K FARMS LLC		
03133112101010000	C76	BUREAU OF LAND MANAGEMENT		
03133112101010000	C77	BUREAU OF LAND MANAGEMENT		
03133113201010000	C76	GOTSCHALL FAMILY LLC		
03133113201010000	C77	GOTSCHALL FAMILY LLC		
03133113403010000	C76	DONNES, ADELINE		
03133113407010000	C76	RUFF INC		

Look-up by Parcel ID

Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03133113413010000	C76	DONNES, ADELINE	
03133122201010000	C72	BUREAU OF LAND MANAGEMENT	
03133122201010000	C73	BUREAU OF LAND MANAGEMENT	
03133122304010000	C73	MCINTOSH, J K ADMR	
03133122304010000	C74	MCINTOSH, J K ADMR	
03133123101010000	C74	BILES, EVERETT S & TODD E	
03133123101010000	C75	BILES, EVERETT S & TODD E	
03133123301010000	C74	GOTSCHALL FAMILY LLC	
03133124000000000	C74 - C76		
03133124101010000	C75	DONNES, ADELINE	
03133124101010000	C76	DONNES, ADELINE	
03133124103010000	C75	RUFF INC	
03133124103010000	C76	RUFF INC	
03133124201010000	C75	GOTSCHALL FAMILY LLC	
03133124201010000	C76	GOTSCHALL FAMILY LLC	
03133124307010000	C74	GRAMMENS BROTHERS	
03133124307010000	C75	GRAMMENS BROTHERS	
03133124401010000	C75	GRAMMENS BROTHERS	
03133124404010000	C75	RUFF INC	
03133125000000000	C74, C75		
03133125201010000	C74	WHITE, TROY	
03133125201010000	C75	WHITE, TROY	
03133125201210000	C74	WHITE, TROY	
03133125201210000	C75	WHITE, TROY	
03133125209010000	C74	GRAMMENS BROTHERS	
03133125209010000	C75	GRAMMENS BROTHERS	
03133125309010000	C74	KEMPH FAMILY TRUST	
03133126000000000	C73, C74		
03133126104010000	C74	GRAMMENS BROTHERS	
03133126201010000	C74	JOHNSON, RICHARD W	
03133126203010000	C73	STATE OF MONTANA DEPARTMENT OF	
03133126203010000	C74	STATE OF MONTANA DEPARTMENT OF	
03133126203020000	C73	MONTANA DEPT OF FISH, WILDLIFE	
03133126203020000	C74	MONTANA DEPT OF FISH, WILDLIFE	
03133126213010000	C74	GOTSCHALL FAMILY LLC	
03133126302010000	C73	JOHNSON, RICHARD W	
03133126302010000	C74	JOHNSON, RICHARD W	
03133126307010000	C73	GRINSTEINER, JOHN M & BETTY L	
03133126307010000	C74	GRINSTEINER, JOHN M & BETTY L	
03133126409010000	C74	KEMPH FAMILY TRUST, JOHN & LOI	
03133127000000000	C72, C73		
03133127104010000	C73	OLSON, NANCY K TRUSTEE	
03133127117010000	C72	MCINTOSH, J K ADMR	
03133127117010000	C73	MCINTOSH, J K ADMR	
03133127117010000	C74	MCINTOSH, J K ADMR	
03133127201010000	C72	STATE OF MONTANA DEPARTMENT OF	
03133127201010000	C73	STATE OF MONTANA DEPARTMENT OF	
03133127301010000	C72	OLSON, NANCY K TRUSTEE	5653 CUSTER FRONTAGE RD 59024
03133127301010000	C73	OLSON, NANCY K TRUSTEE	5653 CUSTER FRONTAGE RD 59024
03133127403010000	C73	GRINSTEINER, JOHN M & BETTY L	
03133127411010000	C73	WOODS, JAMES S & WINONA M	
03133128201010000	C71	KELLER LAND & CATTLE COMPANY	
03133128201010000	C72	KELLER LAND & CATTLE COMPANY	
03133128404010000	C72	OLSON, NANCY K TRUSTEE	
03133129101010000	C70	KELLER LAND & CATTLE CO &	
03133129101010000	C71	KELLER LAND & CATTLE CO &	
03133129201010000	C70	KELLER LAND & CATTLE CO	
03133131000000000	C69		

Look-up by Parcel ID

Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03133131101010000	C69	KELLER LAND & CATTLE CO	
03133131101010000	C70	KELLER LAND & CATTLE CO	
03133131201010000	C68	T-K FARMS LLC	
03133131201010000	C69	T-K FARMS LLC	
03133131401010000	C69	PATTERSON LAND & LIVESTOCK CO	
03133132000000000	C69 - C71		
03133132101010000	C70	BUREAU OF LAND MANAGEMENT	
03133132101010000	C71	BUREAU OF LAND MANAGEMENT	
03133132204040000	C70	BUREAU OF LAND MANAGEMENT	
03133132209010000	C70	KELLER LAND & CATTLE COMPANY	
03133132307010000	C69	PATTERSON LAND & LIVESTOCK CO	
03133132307010000	C70	PATTERSON LAND & LIVESTOCK CO	
03133132307010000	C71	PATTERSON LAND & LIVESTOCK CO	
03133133000000000	C71, C72		
03133133109010000	C71	KEMPH, JOE JR & KAREN	
03133133109010000	C72	KEMPH, JOE JR & KAREN	
03133133209010000	C71	KELLER LAND & CATTLE COMPANY &	
03133133314010000	C71	STATE OF MONTANA	
03133133401010000	C71	PATTERSON LAND & LIVESTOCK CO	
03133133401010000	C72	PATTERSON LAND & LIVESTOCK CO	
03133133411010000	C71	KEMPH, JOE JR & KAREN	
03133134000000000	C72, C73		
03133134101010000	C72	GRIBBEN, TERRY S	
03133134101010000	C73	GRIBBEN, TERRY S	
03133134207010000	C72	KEMPH, JOE JR & KAREN	
03133134211010000	C72	OLSON, NANCY K TRUSTEE	5653 CUSTER FRONTAGE RD 59024
03133134211010000	C73	OLSON, NANCY K TRUSTEE	5653 CUSTER FRONTAGE RD 59024
03133202000000000	C80		
03133202201010000	C80	RUFF, SCOTT	
03133202201010000	C81	RUFF, SCOTT	
03133202315010000	C80	FETTIG, CHARLOTTE G	
03133202319010000	C80	WYBLE, MICHAEL A & SANDRA J	7074 CUSTER FRONTAGE RD 59024
03133203000000000	C79, C80		
03133203201010000	C79	MARLO LAND & LIVESTOCK CO	
03133203201010000	C80	MARLO LAND & LIVESTOCK CO	
03133203201010000	C81	MARLO LAND & LIVESTOCK CO	
03133203290010000	C80	VICKERY, DAVID F & LINDA S	8100 BUFFALO CREEK RD 59024
03133203290100000	C80	MYHRE, MICHAEL J S & DIXIE D &	
03133203290150000	C80	MYHRE, MICHAEL J S & DIXIE D &	8110 BUFFALO CREEK RD 59024
03133203290300000	C80	MYHRE, MICHAEL J S & DIXIE D &	
03133203290500000	C80	MYHRE, MICHAEL J S & DIXIE D &	
03133203303010000	C79	ERNA R KEMPH IRREVOCABLE TRUST	
03133203303010000	C80	ERNA R KEMPH IRREVOCABLE TRUST	
03133203311010000	C79	DONNES, ADELINE	
03133203311010000	C80	DONNES, ADELINE	
03133203401010000	C79	DONNES, ADELINE	7001 CUSTER FRONTAGE RD 59024
03133203401010000	C80	DONNES, ADELINE	7001 CUSTER FRONTAGE RD 59024
03133203404010000	C80	GRAMMENS BROS	6978 CUSTER FRONTAGE RD 59024
03133203406010000	C80	GRAMMENS, MARION	6982 CUSTER FRONTAGE RD 59024
03133204101010000	C79	MARLO LAND & LIVESTOCK CO	7926 BUFFALO CREEK RD 59024
03133204101010000	C80	MARLO LAND & LIVESTOCK CO	7926 BUFFALO CREEK RD 59024
03133204410010000	C79	STERNAD, JAY	7936 BUFFALO CREEK RD 59024
03133204480010000	C79	HOPE, CARL B	7930 BUFFALO CREEK RD 59024
03133207000000000	C77		
03133207101010000	C77	BUREAU OF LAND MANAGEMENT	
03133207104010000	C77	ERNA R KEMPH IRREVOCABLE TRUST	
03133207203010000	C76	BUREAU OF LAND MANAGEMENT	
03133207203010000	C77	BUREAU OF LAND MANAGEMENT	

Look-up by Parcel ID

Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03133207301010000	C76	DONNES, ADELINE	
03133207301010000	C77	DONNES, ADELINE	
03133207303010000	C76	ROSH, ELIZABETH M	
03133207303010000	C77	ROSH, ELIZABETH M	
03133207401010000	C77	DONNES, ADELINE	6385 N FRONTAGE RD 59024
03133208000000000	C77, C78		
03133208211010000	C77	KEIL, EUGENE H & DEANNA C	
03133208211010000	C78	KEIL, EUGENE H & DEANNA C	
03133208303010000	C78	KUNTZ, MARGARET L	
03133208305010000	C77	ERNA R KEMPH IRREVOCABLE TRUST	
03133208305010000	C78	ERNA R KEMPH IRREVOCABLE TRUST	
03133208404010000	C78	DONNES, ADELINE	
03133208409010000	C78	DONNES, ADELINE	
03133209000000000	C78, C79		
03133209207010000	C78	HAUCK, SCOTT W	
03133209207010000	C79	HAUCK, SCOTT W	
03133209301010000	C78	NOSER FAMILY TRUST	6680 CUSTER FRONTAGE RD 59024
03133209401010000	C78	HEBERLE, MARY LOUISE	
03133209401010000	C79	HEBERLE, MARY LOUISE	
03133210000000000	C79		
03133210117010000	C79	GRAMMENS BROS	
03133210203010000	C79	ERNA R KEMPH IRREVOCABLE TRUST	
03133210211010000	C79	DONNES, ADELINE	6877 CUSTER FRONTAGE RD 59024
03133210215010000	C79	DONNES, ADELINE	
03133210401010000	C79	BUYSE, MORRIS A & IDA MAE	
03133217000000000	C77		
03133218000000000	C76, C77		
03133218111010000	C77	KUNTZ, MARGARET L	
03133218201010000	C76	RUFF INC	
03133218203010000	C76	ROSH, ELIZABETH M	
03133218203010000	C77	ROSH, ELIZABETH M	
03133218205010000	C76	JTL GROUP INC	
03133218207010000	C76	ROSH, ELIZABETH M	6255 FRONTAGE RD 59024
03133218215010000	C76	DONNES, ADELINE	
03133218215010000	C77	DONNES, ADELINE	
03133218301010000	C76	RUFF INC	6292 CUSTER FRONTAGE RD 59024
03133218305010000	C76	BASSO, GARY L	
03143425101010000	C85	GUNN, RONALD W	
03143425101010000	C86	GUNN, RONALD W	
03143433101010000	C80	BUREAU OF LAND MANAGEMENT	
03143433101010000	C81	BUREAU OF LAND MANAGEMENT	
03143434101010000	C81	BUREAU OF LAND MANAGEMENT	
03143434101010000	C82	BUREAU OF LAND MANAGEMENT	
03143434103010000	C82	STATE OF MONTANA	
03143434301010000	C81	RUFF, SCOTT & ANNETTE	
03143434401010000	C81	JUNCTION CITY RANCH COMPANY	
03143434401010000	C82	JUNCTION CITY RANCH COMPANY	
03143435105010000	C82	JUNCTION CITY RANCH COMPANY	
03143435105010000	C83	JUNCTION CITY RANCH COMPANY	
03143435301010000	C82	JUNCTION CITY RANCH COMPANY	
03143435301010000	C83	JUNCTION CITY RANCH COMPANY	
03143435404010000	C83	RUFF, GARY & DELLA	4854 MUSSELLSHELL TRAIL 59024
03143435404010000	C84	RUFF, GARY & DELLA	4854 MUSSELLSHELL TRAIL 59024
03143436000000000	C84, C85		
03143436103010000	C84	STATE OF MT TRUST LAND	
03143436103010000	C85	STATE OF MT TRUST LAND	
03143436104010000	C85	STATE OF MT TRUST LAND	
03143436201010000	C83	GUNN, RONALD W	

Look-up by Parcel ID

Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03143436201010000	C84	GUNN, RONALD W	
03143436201010000	C85	GUNN, RONALD W	
03143436250010000	C83	COUGHLIN, JOSEPH W & KELLE J	MUSSELLSHELL TRAIL 59024
03143436301010000	C84	RUFF, GARY & DELLA	
03143436301010000	C85	RUFF, GARY & DELLA	
03143521101010000	C88	NANSEL, DONALD L & DOROTHY B	
03143521201010000	C88	NANSEL, DONALD L & DOROTHY B	
03143528000000000	C88		
03143528101010000	C87	BUREAU OF LAND MANAGEMENT	
03143528101010000	C88	BUREAU OF LAND MANAGEMENT	
03143528102010000	C88	STATE OF MONTANA	
03143528203010000	C88	BUREAU OF LAND MANAGEMENT	
03143528301010000	C87	SJOSTROM, MELVIN J & ALICE M	
03143528301010000	C88	SJOSTROM, MELVIN J & ALICE M	
03143529201010000	C86	SWANSON, MARY B & RICHARD W (1	
03143529201010000	C87	SWANSON, MARY B & RICHARD W (1	
03143529201010000	C88	SWANSON, MARY B & RICHARD W (1	
03143529301010000	C86	ST JOHN, EDGAR E & RUTH A	
03143529301010000	C87	ST JOHN, EDGAR E & RUTH A	
03143529401010000	C87	BUREAU OF LAND MANAGEMENT	
03143529401010000	C88	BUREAU OF LAND MANAGEMENT	
03143530101010000	C86	BUREAU OF LAND MANAGEMENT	
03143530301010000	C85	SWANSON, MARY B & RICHARD W (1	7778 PEASE BOTTOM RD 59024
03143530301010000	C86	SWANSON, MARY B & RICHARD W (1	7778 PEASE BOTTOM RD 59024
03143530401010000	C86	SCHNACK, GLADYS &	
03143530403010000	C86	ST JOHN, EDGAR E & RUTH A	
03143531000000000	C85, C86		
03143531101010000	C85	ST JOHN, EDGAR E & RUTH A	
03143531101010000	C86	ST JOHN, EDGAR E & RUTH A	
03143531104010000	C86	RUFF INC A MT CORPORATION	
03143531112010000	C86	ST JOHN, EDGAR E & RUTH A &	
03143531201010000	C85	GUNN, RONALD W	
03143531201010000	C86	GUNN, RONALD W	
03143531301010000	C85	LICH, MELVIN & KAREN K	
03143531307010000	C85	SJOSTRUM, MELVIN & ALICE	
03143531307010000	C86	SJOSTRUM, MELVIN & ALICE	
03143532000000000	C86, C87		
03143532201010000	C86	RUFF INC A MT CORPORATION	
03143532201010000	C87	RUFF INC A MT CORPORATION	
03143532401010000	C86	ST JOHN, EDGAR E & RUTH A	
03143532401010000	C87	ST JOHN, EDGAR E & RUTH A	
03143533000000000	C87, C88		
03143533201010000	C87	SJOSTROM, MELVIN J	
03143533201010000	C88	SJOSTROM, MELVIN J	
03444444444444444	C66, C67, C76, C80		
03555555555550000	B42 - B45		
03555555555555555	C23, C24, C52, C53, C74		
03666666666660000	B42, B43, B45		
03666666666666666	C55, C56, C57, C58, C67, C68, C69, C71, C74, C75, C84, C85, C86		
03777755555550000	A19 - A29, B01 - B09, B11 - B18, B28 - B45, C01 - C04, C08 - C17, C80 - C88		
03777755555555555	A01 - A03, A06 - A19, C02, C17 - C42, C50 - C68, C74		
03777777777770000	B18 - B26, B28, B29, C04 - C09, C76 - C81		
03777777777777777	C42 - C50, C68 - C76		
03888833333330000	B40, C02, C04, C05		
03888833333333333	B27, C05		
03888844444440000	A11, A13, A14, A28, A29, B01, B04, B16, B19, B22, B26, B28, B31-B33, B36, B37, B40, B43, C01-C03, C13		
03888844444444444	A01, A02, A09, A20, A27, B22, B26, B28, C05-C07, C17, C18, C20, C22, C23-C28, C30-C33, C35-C37, C41-C46, C49-C53, C55-C58, C62, C63, C66-C76, C78-C80, C83, C84, C86, C87		

Look-up by Parcel ID

Parcel ID (PID)	River Area	Owner Name	Property Address (if applicable)
03888855555550000	A01, B26, B28		
03888855555555555	A01, B45, C01, C23, C24, C28, C52, C53, C86		
03888866666660000	B42 - B45		
03888866666666666	B42, B43, C55-C58, C67, C68, C69, C84, C85		
03999955555550000	A01-A03, A06-A29, B01-B18, B20-B26, B28-B47, C01-C16, C18-C20		
03999966666660000	A08		
03999999555550000	B16 - B20		
03999999999990000	C10		
03999999999999999	C13, C88		
99999999999999999	C23, C44, C49, C50		

Appendix C

Wildlife Priority Cleanup Documentation

1.1 Initial Tracking of Wildlife Priority Cleanup Areas (WPCAs)

From the start of the incident until approximately September 1, WPCAs were tracked in a database and the locations passed down to Operations. The attached list of WPCAs does not represent the entire list of WPCAs identified during this time period. Due to transitions between personnel and changes in reporting processes as the incident proceeded, data concerning several locations were not captured. These WPCAs were closed by the normal Shoreline Cleanup Assessment Technique (SCAT) process for the closure of segments. Data from the WPCA database are presented in Table C1.

1.2 Pre-Operations Wildlife Inspections

The Oiled Wildlife Hazard Assessment Form was used by the Wildlife Branch field crews (International Bird Rescue [IBR]) to identify wildlife hazards on the C&J Land and Livestock properties (Williams Properties) during the initial site visit(s) allowed by the litigant's attorney. No cleanup operations had been completed in these areas prior to the site visits. These wildlife hazard locations are referenced in a tracking table (Table C2) and depicted on Figures C1–C3, and copies of the associated field forms are included in Attachment C1. After the completion of Operation's activities, IBR re-inspected the locations and they no longer posed a risk to wildlife.

1.3 Administratively Closed Forms

Several WPCA field forms were closed administratively for various reasons and are discussed below. The forms are listed in Table C2 and copies of the forms are included in Attachment C2.

- Oiled Wildlife Risk Assessment Form #31 for Area A08 was closed because the wrong coordinates were listed on the form, and because the issue was already covered in the Exception Memos generated for A08 related to a persistent sheen. The Exception Memos are included as Appendix G of the SCAT Area Transition Report (SATR) for A08.

- Oiled Wildlife Risk Assessment Forms #51-54 and the associated Wildlife Exception Memo were closed after it was determined that the translucent sheen noted in the field forms was likely not hydrocarbon-related sheen. This determination was made by the Wildlife Branch and Montana Department of Environmental Quality (MDEQ) after a field trip in which several sites with sheen were evaluated, and research by the Wildlife Branch into hydrocarbon and natural sheens. Members of the field crew that made the observations recorded on forms #51-54 were present during the field trip and agreed that the sheen that they had identified was likely not hydrocarbon related and that the forms should be closed without any treatment occurring.

- Oiled Wildlife Risk Assessment Form #65 was closed after a calibration field visit by representatives of the ExxonMobil Pipeline Company (EMPCo), MDEQ, and Montana Fish, Wildlife, and Parks (MT-FWP). It was agreed that the small amount of oiled debris in the debris pile was sufficiently weathered that it didn't pose a risk to wildlife.

1.4 Completed Oiled Wildlife Risk Assessment Forms

Oiled Wildlife Hazard Assessment Forms that were used to generate Exception Memos are listed in Table C2 and presented in Attachment C3. Those forms that were addressed by Operations without a Wildlife Exception Memo being generated are listed in Table C2 and depicted on Figures C4-C6, and copies of the forms are included in Attachment C4.

Table C1 - Wildlife Priority Cleanup Areas from the Start of the Incident to September 1

Initial Date	Latitude	Longitude	Notes	Priority	Status	SCAT Segment
8/5/2011	45.654750	-108.753040	Oiled turtle pond- treatment hs occurred, however a small amount of sheen is still re-occurring.	Low	Completed	A02-RB
8/5/2011	45.656030	-108.750140	Debris pile, heavily oiled toad collected, numerous other wildlife observed using area	High	Completed	A02-RB
8/15/2011	45.650580	-108.734490	Oiled debris pile on a gravel bar near Thiel Rd. Access is likely possible from Thiel Rd.	High	Completed	A06-RB
8/15/2011	45.650310	-108.730710	2-pools with free product on a gravel bar near Thiel Rd. Access is likely possible from Thiel Rd.	High	Completed	A06-RB
8/10/2011	45.650640	-108.716320	Oily debris piles	High	Completed	A11-LB
8/16/2011	45.670010	-108.686970	Large amount of oil in racked debris situated on the gravel bar at the head of the island (not identified as an island on the maps)	High	Completed	A21-RB
8/4/2011	45.672140	-108.681440	Lightly oiled debris pile, 23 oiled amphibians collected, med-sized area	High	Completed	A22-IS
7/29/2011	45.663570	-108.686580	A20/A21 pools of oil down from eagle nest, on small island C.Ewing reported to S.Catron	High	Completed	A22-IS
8/5/2011	45.675450	-108.669880	Oiled birds in very oily vegetation. NOTE: Wildlife recommendation is to start cleanup at east end and work west to drive birds into clean vegetatior	High	Completed	A24-RB
9/2/2011	45.686670	-108.650280	4 toads captured from oiled debris	High	Completed	A28-RB
9/1/2011	45.650190	-108.723180	Sheen still coming off oiled stump, continue monitoring	Low	Completed	A7-RB
7/26/2011	45.694460	-108.633130	10 X 10 pool with free oil and 20 ft south of that location a 15x15 pool . C. Ewing reported to Shawn Catron	High	Completed	B01-LB
7/26/2011	45.694280	-108.634170	pool of water with strong sheen and free oil 25ft x 10ft at base of debris pile. C. Ewing reported to Shawn Catron	High	Completed	B01-LB
7/26/2011	45.695000	-108.634000	dense debris pile 15ft x 15ft. soil saturated with oil. toads and birds have been exposed. C. Ewing reported to Shawn Catron	High	Completed	B01-LB
7/30/2011	45.694490	-108.626300	B1 large log jam w/ water flowing through, oily sheen - Ken Holmes reported to Shawn Catron	High	Completed	B02-LB
7/27/2011	45.696111	-108.635722	oil pool associated w/ debris pile. C. Ewing reported to Shawn Catron	High	Completed	B04-RB
8/22/2011	45.696000	-108.627740	Debris pile w/ lots of oily wood. Additional oily debris piles wrap around the end of the island	High	Completed	B05-RB
7/27/2011	45.696222	-108.625833	oil pool associated w/ debris pile. C. Ewing reported to Shawn Catron	High	Completed	B05-RB
8/8/2011	45.696800	-108.621460	Oiled area- sediments. IBR placed sorbent pads. NOTE: Wildlife Priority area actually includes all segments from B-1 TO B-6	High	Completed	B06-RB
7/27/2011	45.715250	-108.594583	oil pool associated w/ debris pile. C. Ewing reported to Shawn Catron	High	Completed	B46-RB
7/27/2011	45.713083	-108.593889	oil pool associated w/ debris pile. C. Ewing reported to Shawn Catron	High	Completed	B47-RB
9/1/2011	45.697800	-108.628010	Oiled material in debris piles	High	Completed	B6-LB

Table C2 - Oiled Wildlife Hazard Assessment Form Tracking

ID #	Segment	Status	Notes
1	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
2	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
3	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
4	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
5	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
6	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
7	A27-RB	Closed	Pre-operations survey on C&J land and livestock property
8	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
9	A27-RB	Closed	Pre-operations survey on C&J land and livestock property
10	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
11	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
12	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
13	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
14	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
15	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
16	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
17	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
18	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
19	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
20	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
21	A27-RB	Closed	Pre-operations survey on C&J land and livestock property
22	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
23	A26-RB	Closed	Pre-operations survey on C&J land and livestock property
24	A27-RB	Closed	Pre-operations survey on C&J land and livestock property
25	A27-RB	Closed	Pre-operations survey on C&J land and livestock property
26	A27-RB	Closed	Pre-operations survey on C&J land and livestock property
27	A28-RB	Closed	Pre-operations survey on C&J land and livestock property
28	A28-RB	Closed	Pre-operations survey on C&J land and livestock property
29	A28-RB	Closed	Pre-operations survey on C&J land and livestock property
30	A27-RB	Closed	Pre-operations survey on C&J land and livestock property
31	A08-RB	No Action	Administratively Closed - A Wildlife Exception Memo was generated for the wrong location; A02. The correct location is associated with the A08 blow hole, which already had an Exception Memo completed by the UC.
32	A27-RB	Closed	Pre-operations survey on C&J land and livestock property
33	A28-RB	Closed	Pre-operations survey on C&J land and livestock property
34	A27-RB	Closed	Pre-operations survey on C&J land and livestock property
35	A27-RB	Closed	Pre-operations survey on C&J land and livestock property
36	A27-RB	Closed	Pre-operations survey on C&J land and livestock property
37	A27-RB	Closed	Pre-operations survey on C&J land and livestock property
38	A27-RB	Closed	Pre-operations survey on C&J land and livestock property
39	A28-RB	Closed	Pre-operations survey on C&J land and livestock property
40	A28-RB	Closed	Pre-operations survey on C&J land and livestock property
41	A28-RB	Closed	Pre-operations survey on C&J land and livestock property
42	A28-RB	Closed	Pre-operations survey on C&J land and livestock property
43	A28-RB	Closed	Pre-operations survey on C&J land and livestock property
44	A28-RB	Closed	Pre-operations survey on C&J land and livestock property
45	A27-RB	Closed	Pre-operations survey on C&J land and livestock property
46	A27-RB	Closed	Pre-operations survey on C&J land and livestock property
47	A27-RB	Closed	Pre-operations survey on C&J land and livestock property
48	B19-Island	Closed	Wildlife Exception Memo (B-19 Island)
49	B19-Island	Closed	Wildlife Exception Memo (B-19 Island)
50	B19-Island	Closed	Wildlife Exception Memo (B-19 Island)
51	A28-LB	No Action	Administratively Closed - A Wildlife Exception Memo was generated but closed when the reported sheen was determined to not be hydrocarbon related.
52	A28-LB	No Action	Administratively Closed - A Wildlife Exception Memo was generated but closed when the reported sheen was determined to not be hydrocarbon related.
53	A28-LB	No Action	Administratively Closed - A Wildlife Exception Memo was generated but closed when the reported sheen was determined to not be hydrocarbon related.
54	A29-LB	No Action	Administratively Closed - A Wildlife Exception Memo was generated but closed when the reported sheen was determined to not be hydrocarbon related.
55	A23-RB	Closed	Pre-operations survey on C&J land and livestock property
56	A22-RB	Closed	Wildlife Exception Memo (A22 RB)
57	A23-RB	Closed	Pre-operations survey on C&J land and livestock property
58	A22-RB	Closed	Wildlife Exception Memo (A22 RB)

Table C2 - Oiled Wildlife Hazard Assessment Form Tracking

ID #	Segment	Status	Notes
59	A26-Island	Closed	Wildlife Exception Memo (A26 Island)
60	A26-Island	Closed	Wildlife Exception Memo (A26 Island)
61	B02-LB	Closed	Wildlife Exception Memo (B02 LB)
62	A28-RB	Closed	Wildlife Exception Memo (A28 Island Emergent)
63	A28-RB	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations
64	B23-RB	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations
65	B02-LB	No Action	Administratively Closed -Site was determined not to be a wildlife hazard after a field visit with Montana FWP, DEQ and the Wildlife Branch.
66	A28-RB	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations
67	A28-RB	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations
68	A26-Island	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations
69	B06-RB	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations
70	B06-RB	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations
71	B02-LB	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations
72	B06-RB	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations
73	B07-Island	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations
74	B09-LB	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations
75	B09-RB	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations
76	B08-LB	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations
77	B05-LB	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations
78	B05-LB	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations
79	B47-RB	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations
80	B42-RB	Closed	Oiled Wildlife Hazard Assessment Form-Direct pass down to Operations

Attachment C1

Pre-Operations Activities Inspections

ExxonMobil Pipeline

N 1:6,000

Silvertip Pipeline Incident
Oiled Wildlife Risk Assessment Form Data Map
Division A

10/25/2011

The Response Group

0 500 1,000 2,000 Feet

Figure C1
Wildlife Resources

Date: 10/25/2011 Time: 2:30:32 PM

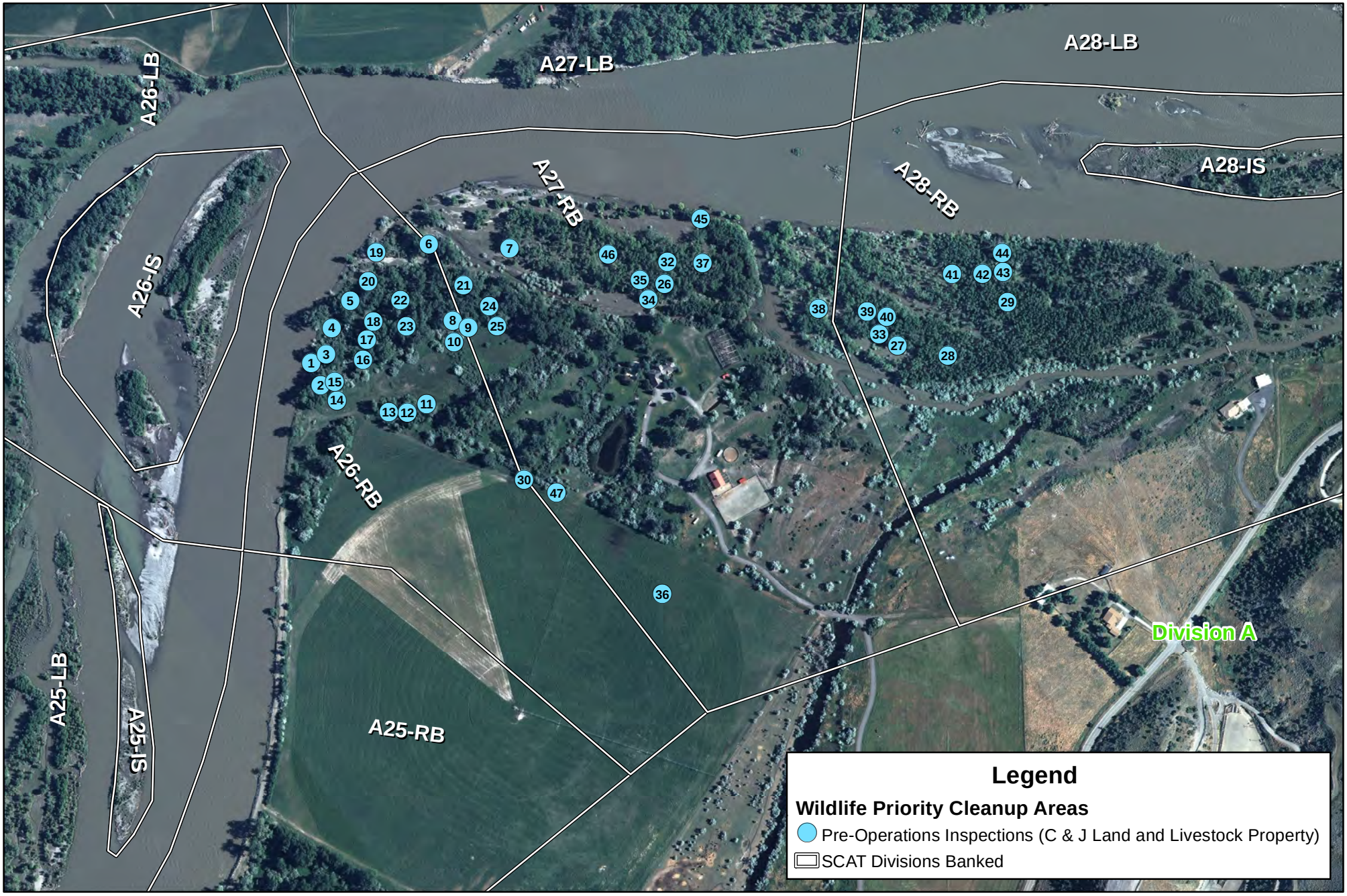
ExxonMobil Pipeline

N 1:6,000

Silvertip Pipeline Incident
Oiled Wildlife Risk Assessment Form Data Map
Division A

10/25/2011

The Response Group



Date: 10/25/2011 Time: 2:32:14 PM

Figure C2
Wildlife Resources

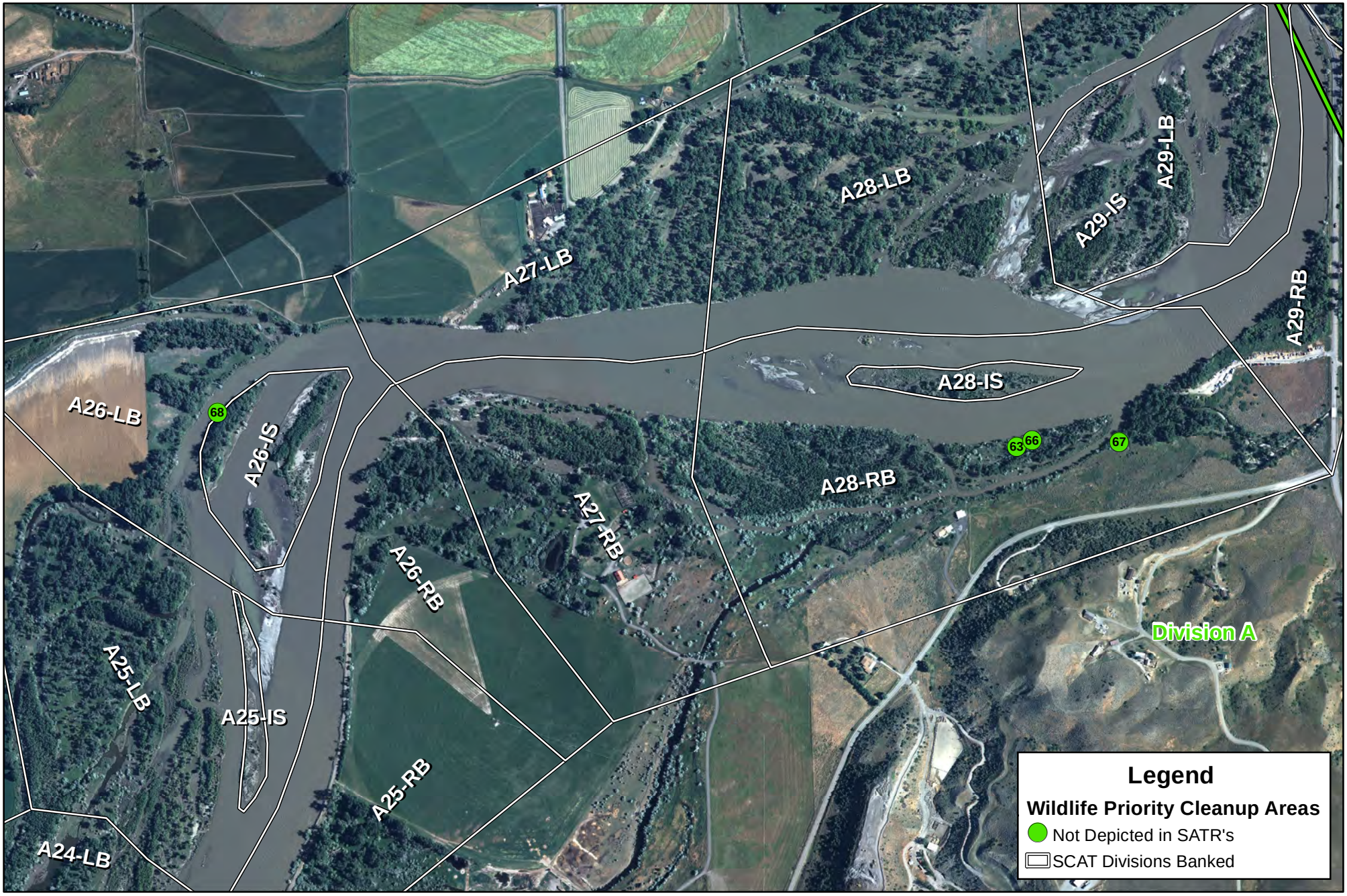
ExxonMobil Pipeline

N 1:9,600

Silvertip Pipeline Incident
Oiled Wildlife Risk Assessment Form Data Map
Division A

10/25/2011

The Response Group



0 750 1,500 3,000 Feet

Figure C3
Wildlife Resources

Date: 10/25/2011 Time: 2:42:58 PM

Oiled Wildlife Risk Assessment Form

Date: 9/2/11 **Name:** Sean McAllister

GPS Waypoint #: 103 **Division/Sector:** A26 **Time:** 0925 **Temp:** 60°F

Coordinates (NAD83) Lat: 45.68536 **Long:** 108.66365

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8813, 8814

#1

M

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 10' X 15' Observations relative to wildlife (describe):

~30 ft. from river; scat flag hung here; risk to small mammals

---

GPS Waypoint #: 104 **Division/Sector:** A26 **Time:** 0934 **Temp:** 60°F

Coordinates (NAD83) Lat: 45.68513 **Long:** 108.66364

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:**

#2

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 3' X 6' Observations relative to wildlife (describe):

M

House Wrens observed foraging here

GPS Waypoint #: 105 **Division/Sector:** A26 **Time:** 9:53 **Temp:** 60°F

Coordinates (NAD83) Lat: 45.68546 **Long:** 108.66354

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8815

#3

M

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 5'x5' Observations relative to wildlife (describe):

Oiled Wildlife Risk Assessment Form

Date: 9/03/2011 **Name:** Sean McAllister, Tana Nulph

GPS Waypoint #: 106 **Division/Sector:** A26 **Time:** 10:01 **Temp:** 60° F

Coordinates (NAD83) Lat: 45.68574 **Long:** 108.66344

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8816

#4

M

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 8' x 10' Observations relative to wildlife (describe):

GPS Waypoint #: 107 **Division/Sector:** A26 **Time:** 10:07 **Temp:** 60°F

Coordinates (NAD83) Lat: 45.68602 **Long:** 108.66315

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8817

#5

M

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 3' x 3' Observations relative to wildlife (describe):

GPS Waypoint #: 108 **Division/Sector:** ~~A26~~ A27 **Time:** 10:40 **Temp:** 63°F

Coordinates (NAD83) Lat: N 45.68660° **Long:** W108.66193°

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8818, 8819

#6

M

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 15' x 8' Observations relative to wildlife (describe):

Oiled Wildlife Risk Assessment Form

Date: 09/03/2011 **Name:** Sean McAllister, Tana Nulph

GPS Waypoint #: 109 **Division/Sector:** A27 **Time:** 10:52 **Temp:** 65° F

Coordinates (NAD83) Lat: 45.68653 **Long:** 108.66071

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8822

#7

M

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 25' x 10' Observations relative to wildlife (describe):

GPS Waypoint #: 110 **Division/Sector:** A26 **Time:** 11:04 **Temp:** 65° F

Coordinates (NAD83) Lat: 45.68578 **Long:** 108.66160

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8823, 8824

#8

H

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 10' x 20' Observations relative to wildlife (describe):
High traffic area for mammals - saw several tracks. Possibly what Ken Frazer (FWP) saw. Plucked, oily feathers - probably wood duck.

GPS Waypoint #: 111 **Division/Sector:** A26 **Time:** 11:08 **Temp:** 65°F

Coordinates (NAD83) Lat: 45.68570 **Long:** 108.66137

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8825

#9

H

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 20' x 8' Observations relative to wildlife (describe):
High traffic area for mammals.

Oiled Wildlife Risk Assessment Form

Date: 09/03/2011 **Name:** Sean McAllister, Tana Nulph

GPS Waypoint #: 112 **Division/Sector:** A26 **Time:** 11:11 **Temp:** 65°F

#10

H

Coordinates (NAD83) **Lat:** 45.08572 **Long:** 108.060142

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 88216

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 18' X 3' Observations relative to wildlife (describe):

GPS Waypoint #: _____ **Division/Sector:** _____ **Time:** _____ **Temp:** _____

Coordinates (NAD83) **Lat:** _____ **Long:** _____

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):

GPS Waypoint #: _____ **Division/Sector:** _____ **Time:** _____ **Temp:** _____

Coordinates (NAD83) **Lat:** _____ **Long:** _____

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):

Oiled Wildlife Risk Assessment Form

Date: 9/03/2011 **Name:** Tana Nulph

GPS Waypoint #: 25 **Division/Sector:** A26RB **Time:** 9:19 **Temp:** ~60°F

Coordinates (NAD83) Lat: N 45.68711° **Long:** W 108.64269°

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 421-423

#11

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 12x12 ft sq. Observations relative to wildlife (describe):

M This is right between two trees in a shrubby, grassy area. Seems like fairly decent habitat. Oil is very thick and transfers easily, even though it's quite cold.

GPS Waypoint #: 26 **Division/Sector:** A26RB **Time:** 9:29 **Temp:** ~60°F

Coordinates (NAD83) Lat: N45.68481° **Long:** W108.66233°

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 424-425

M

#12

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 5'x5' Observations relative to wildlife (describe):

This oil is very thick and on the ground where animals may pass through. It is trapped between fallen branches and also in a shady area so it has not weathered at all.

GPS Waypoint #: 27 **Division/Sector:** A26RB **Time:** 9:33 **Temp:** ~60°F

Coordinates (NAD83) Lat: N45.68482° **Long:** W 108.66261°

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 426-428

M

#13

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 1g - along the path Observations relative to wildlife (describe):

This oil is very thick and runs right along the deer trail.

Oiled Wildlife Risk Assessment Form

Date: 9/3/2011 **Name:** Fehring, Landon

GPS Waypoint #: 43 **Division/Sector:** A26 **Time:** 0949 **Temp:** 61

Coordinates (NAD83) Lat: 45.68509 **Long:** -108.66340

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** —

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 3x3 ft Observations relative to wildlife (describe):
house wrens feeding nearby

#14
medium

GPS Waypoint #: 44 **Division/Sector:** A26 **Time:** 0955 **Temp:** 61

Coordinates (NAD83) Lat: 45.68516 **Long:** -108.66342

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** —

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 25x5 ft Observations relative to wildlife (describe):
oil caught along log and trees, dead fawn nearby
no visible oil on fawn,

#15
medium

GPS Waypoint #: 45 **Division/Sector:** A26 **Time:** 1002 **Temp:** 61

Coordinates (NAD83) Lat: 45.68548 **Long:** -108.66301

Is oil transferrable by touch with nitrile glove? (Y/N) ____ **Photos:** ____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 5x15 ft Observations relative to wildlife (describe):
clay soil underneath

medium
#16

Oiled Wildlife Risk Assessment Form

Date: 9/3/2011 **Name:** Fehring, Lander

GPS Waypoint #: 46 **Division/Sector:** A26 **Time:** 1006 **Temp:** 61

Coordinates (NAD83) Lat: 45.68560 **Long:** -108.66291

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 5x2ft Observations relative to wildlife (describe):
transfer hazard to foraging birds, berry bushes nearby
other patches nearby as well

#17
medium

GPS Waypoint #: 47 **Division/Sector:** A26 **Time:** 1010 **Temp:** 61

Coordinates (NAD83) Lat: 45.68579 **Long:** -108.66281

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 7x3ft Observations relative to wildlife (describe):
lots of oiling in grass surrounding debris pile
hazard to ground foragers, mammals, herps

medium
#18

GPS Waypoint #: 48 **Division/Sector:** A26 **Time:** 1012 **Temp:** 61

Coordinates (NAD83) Lat: 45.68653 **Long:** -108.66273

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 4x2ft Observations relative to wildlife (describe):
Same as previous

medium
#19

Oiled Wildlife Risk Assessment Form

Date: 9-3-11 **Name:** Fehringlander

GPS Waypoint #: 49 **Division/Sector:** A27 **Time:** 1035 **Temp:** 61

Coordinates (NAD83) Lat: 45.68622 **Long:** -108.66287

#20 medium

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 20x10ft Observations relative to wildlife (describe):
surface contact hazard
extends through bushes throughout general area

GPS Waypoint #: 50 **Division/Sector:** A27 **Time:** 1100 **Temp:** 62

Coordinates (NAD83) Lat: 45.68615 **Long:** -108.66142

#21 medium

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 1x4ft Observations relative to wildlife (describe):
oil extends throughout bushes in patches in surrounding area of shrubfield.

GPS Waypoint #: 51 **Division/Sector:** _____ **Time:** 1106 **Temp:** 61

Coordinates (NAD83) Lat: 45.68601 **Long:** -108.66239

#22 medium

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 150x500ft Observations relative to wildlife (describe):
shrub field (GPS point located in approx middle of field)
transfer hazards to birds/mammals moving through

Oiled Wildlife Risk Assessment Form

Date: 9-3-11 **Name:** Fehring / Lander

GPS Waypoint #: 52 **Division/Sector:** _____ **Time:** 1111 **Temp:** 61

Coordinates (NAD83) Lat: 45.68573 **Long:** -108.66231 High

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____ #23

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 30ft x 3ft Observations relative to wildlife (describe):
edge of shrub field - caught up on ing several areas of very significant thick areas of oil surrounding shrubs with large amt of oil - high likelihood of transfer

---

GPS Waypoint #: 53 **Division/Sector:** _____ **Time:** 1130 **Temp:** _____

Coordinates (NAD83) Lat: _____ **Long:** _____

Dup w/S

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____ High

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):
Ditch with significant oiling of sides also large debris pile with heavy oiling - lots of tracks

duplicate point w/SM

GPS Waypoint #: _____ **Division/Sector:** _____ **Time:** _____ **Temp:** _____

Coordinates (NAD83) Lat: _____ **Long:** _____

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):

Oiled Wildlife Risk Assessment Form

Date: 9/05/2011 **Name:** Tana Nulph, Ron Eby, Sean McAllister

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GPS Waypoint #: 01 Ron **Division/Sector:** _____ **Time:** 9:19 **Temp:** _____

Coordinates (NAD83) Lat: 45.68592 **Long:** 108.66104

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 385-386 TN

L-M

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 3'x5' Observations relative to wildlife (describe):

#24

GPS Waypoint #: 113 **Division/Sector:** _____ **Time:** 9:27 **Temp:** _____

Coordinates (NAD83) Lat: 45.68582 **Long:** 108.66095

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8839

M

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 10'x10' Observations relative to wildlife (describe):

#25

house wrens are likely to occur here.

GPS Waypoint #: 114 **Division/Sector:** _____ **Time:** 9:52 **Temp:** _____

M

Coordinates (NAD83) Lat: 45.68608 **Long:** 108.65848

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8840

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 8'x3' Observations relative to wildlife (describe):

#26

exposed area

Oiled Wildlife Risk Assessment Form

Date: 9/05/2011 **Name:** Tana Nulph, Sean McAllister

GPS Waypoint #: 116 **Division/Sector:** _____ **Time:** 10:13 **Temp:** _____

Coordinates (NAD83) Lat: 45.68537 **Long:** 108.65486

#27

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8843

M

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 10' x 20' Observations relative to wildlife (describe):

GPS Waypoint #: 117 **Division/Sector:** _____ **Time:** 10:17 **Temp:** _____

Coordinates (NAD83) Lat: 45.68525 **Long:** 108.65410

#28

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8844

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 20' x 8' Observations relative to wildlife (describe):

sparse but sticky

GPS Waypoint #: 118 **Division/Sector:** _____ **Time:** 10:30 **Temp:** _____

Coordinates (NAD83) Lat: 45.68580 **Long:** 108.65317

#29

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8845

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark / other

Contiguity: Patchy / Complete **Size:** 12' Observations relative to wildlife (describe):

oil on barbed-wire fence - probable perch for birds and likely to come into contact with mammals. as they pass through and scratch themselves on the wire. more transferable as wire heats in the sun

Oiled Wildlife Risk Assessment Form

Date: 09/05/2011 **Name:** Tara Nulph, Sean McAllister, Ron Eby

---

GPS Waypoint #: 121 **Division/Sector:** _____ **Time:** 11:46 **Temp:** _____

#30

Coordinates (NAD83) Lat: 45.684406 **Long:** 108.660059

H

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8850

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 6'X 4' Observations relative to wildlife (describe):

Thick oil, high traffic area, complete ground coverage, exposed to sun.

~~**GPS Waypoint #:** _____ **Division/Sector:** A8 **Time:** 1408 **Temp:** 85°F~~

#31

~~**Coordinates (NAD83) Lat:** *Pending 45.65517 wrong coordinates ← 1403 → *108.75298 **Long:** Pending~~

M

~~Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** *Pending~~

~~Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark / water~~

~~**Contiguity:** Patchy / Complete **Size:** 3' X 9' Observations relative to wildlife (describe):~~

~~Sheen covering small pool downstream from oiled stump with boom had sandpiper tracks around edges. We placed sorbent pads on this pool.~~

closed NJK part of the stump exception

GPS Waypoint #: _____ **Division/Sector:** _____ **Time:** _____ **Temp:** _____

Coordinates (NAD83) Lat: _____ **Long:** _____

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):

Oiled Wildlife Risk Assessment Form

Date: 9/5 **Name:** RON EBY

GPS Waypoint #: 002 RE **Division/Sector:** A27 **Time:** 9:54 **Temp:** _____

Coordinates (NAD83) **Lat:** 45.68608 **Long:** 108.65842

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8841/2 SEAM

#32

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 10' x 20' Observations relative to wildlife (describe):
MODERATE, PATCHY W/I AREA

GPS Waypoint #: 003 RE **Division/Sector:** A27 **Time:** 10:11 **Temp:** _____

Coordinates (NAD83) **Lat:** 45 41.133 45.68555 **Long:** 108 39.303 -108.65505

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 9497 RE

#33

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 5' x 10' Observations relative to wildlife (describe):
MODERATE

GPS Waypoint #: _____ **Division/Sector:** _____ **Time:** _____ **Temp:** _____

Coordinates (NAD83) **Lat:** _____ **Long:** _____

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):

Oiled Wildlife Risk Assessment Form

Date: 9-5-11 **Name:** Fehring / Lander

GPS Waypoint #: 62 **Division/Sector:** 27A/RB **Time:** 0925 **Temp:** 62

#34

Coordinates (NAD83) Lat: 45.68594 **Long:** -108.105862

Medium

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 20ft x 5ft Observations relative to wildlife (describe):
patchy areas also nearby in bushes - chickadees foraging nearby in low hanging branches

---

GPS Waypoint #: 63 **Division/Sector:** _____ **Time:** 0928 **Temp:** _____

#35

Coordinates (NAD83) Lat: 45.68615 **Long:** -108.65874

Medium

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 20x2ft Observations relative to wildlife (describe):
debris pile - areas of heavy oiling - bird feces observed on oiled sticks
scat-flag present. additional debris piles w/ oil in surrounding area.

GPS Waypoint #: 64 **Division/Sector:** _____ **Time:** 0950 **Temp:** _____

Coordinates (NAD83) Lat: 45.68628 **Long:** -108.65854

Medium

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

#36

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 5 2x2ft piles Observations relative to wildlife (describe):
piles w/in 20-ft radius of each other

Oiled Wildlife Risk Assessment Form

Date: 9-5-11 **Name:** Fchrung / Landuk

GPS Waypoint #: 65 **Division/Sector:** _____ **Time:** 0952 **Temp:** _____

Coordinates (NAD83) **Lat:** 45.686031 **Long:** -108.605778

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):

pheasant feces on stained bark

#37 Medium

GPS Waypoint #: 66 **Division/Sector:** _____ **Time:** 1007 **Temp:** _____

Coordinates (NAD83) **Lat:** 45.685579 **Long:** -108.651604

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 10X10ft Observations relative to wildlife (describe):

Oil on low branches

#38 Medium

GPS Waypoint #: 67 **Division/Sector:** _____ **Time:** 1010 **Temp:** _____

Coordinates (NAD83) **Lat:** 45.685168 **Long:** -108.605519

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: ~~Patchy~~ thick / Complete **Size:** 25X2ft Observations relative to wildlife (describe):

thick, strong smelling covering ground - numerous surrounding debris patches. No significant oiling status. Hazard to ground animals

Medium

#39

Oiled Wildlife Risk Assessment Form

Date: 9-5-11 **Name:** Fehring / Lander

GPS Waypoint #: 68 **Division/Sector:** _____ **Time:** 1013 **Temp:** _____ #40

Coordinates (NAD83) Lat: 45.685608 **Long:** -108.65501

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____ Medium

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 25x25ft Observations relative to wildlife (describe):
bird feces in surrounding area - good section of habitat for birds and small mammals

---

GPS Waypoint #: 69 **Division/Sector:** _____ **Time:** 1016 **Temp:** _____ #41

Coordinates (NAD83) Lat: 45.686611 **Long:** -108.65400

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____ Medium

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):
only grass/shrubs all in surrounding area
debris pile w/ sticky heavy oils

GPS Waypoint #: 34 **Division/Sector:** _____ **Time:** 1022 **Temp:** _____ #42

Coordinates (NAD83) Lat: 45.686612 **Long:** -108.65343

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____ Medium

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):
large debris pile, strong smell, ground patches, SCAT flag present from 7-17-11

Oiled Wildlife Risk Assessment Form

Date: 9-5-11 **Name:** Fehring/Kander

GPS Waypoint #: 70 **Division/Sector:** _____ **Time:** 1028 **Temp:** 70

#43

Coordinates (NAD83) Lat: 45.68612 **Long:** -108.65322

Medium

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 25x8 ft Observations relative to wildlife (describe):
another debris pile w/ heavy oiled area
likely mammal habitat & bird foraging area

GPS Waypoint #: 71 **Division/Sector:** _____ **Time:** 1035 **Temp:** 70

#44

Coordinates (NAD83) Lat: 45.68632 **Long:** -108.65323

Medium

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 12x4 ft Observations relative to wildlife (describe):
large spots on ground & in grass transfer
hotspot

GPS Waypoint #: 72 **Division/Sector:** _____ **Time:** 1108 **Temp:** _____

#45

Coordinates (NAD83) Lat: 45.1061078 **Long:** -108 65780

Medium

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):
1 ft. band on tree, good habitat area w/ heavy
thick transfers oiling in spots - berry bushes
close by

Oiled Wildlife Risk Assessment Form

Date: 9-5-11 **Name:** Fehring / Lander

GPS Waypoint #: 73 **Division/Sector:** _____ **Time:** 1117 **Temp:** 72

Coordinates (NAD83) Lat: 45.68643 **Long:** -108.65921

#96 Medium

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 8x3 ft Observations relative to wildlife (describe):

Likely bird habitat re-transfer hazard

GPS Waypoint #: 75 **Division/Sector:** _____ **Time:** 1145 **Temp:** 81

Coordinates (NAD83) Lat: 45.68391 **Long:** -108.66010

#47 Medium

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 30x8 ft Observations relative to wildlife (describe):

Oil on ground in grass next to field - birds observed flying from oily grass into nearby trees Wild turkeys also observed passing through this area (adults w/ juveniles)

GPS Waypoint #: _____ **Division/Sector:** _____ **Time:** _____ **Temp:** _____

Coordinates (NAD83) Lat: _____ **Long:** _____

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):

INTERNATIONAL BIRDRESCUE

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9/7/11 **Name(s):** Sean McAllister, Tana Nulph

GPS Waypoint #: 124 **Division/Sector:** A23 RB **Time:** 0944 **Temp:** 62°F
Coordinates (NAD83) Lat: 45.67469 **Long:** 108.67268
Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8877
Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete
Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 100' X 1'
Observations relative to wildlife (describe): long band of oil on side of levee, contiguous w/ that of A24 RB

M

#55

GPS Waypoint #: 125 **Division/Sector:** A22 RB **Time:** **Temp:** 63°F
Coordinates (NAD83) Lat: 45.67274 **Long:** 108.67701
Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8878, 79, 80
Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete
Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 60' X 12'
Observations relative to wildlife (describe): Located in a mostly dry ditch channel which has many animal (deer, raccoon etc.) tracks - indicating frequent use

#56

ER sent 9/7

GPS Waypoint #: 127 **Division/Sector:** A23 RB **Time:** 1119 **Temp:** 65°F
Coordinates (NAD83) Lat: 45.67434 **Long:** 108.67350
Is oil transferrable by touch with ~~nitrile glove~~? (Y/N) Y - Sorbent **Photos:** 8882, 8883
Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete
Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 50' X 7'
Observations relative to wildlife (describe): large pool w/ sheen on entire surface and fresh raccoon tracks around perimeter and 1 leopard frog inside (!) sheen passed the "stick-swirl" test and immediately stained sorbent pad.

H

#57

GPS Waypoint #: 128 **Division/Sector:** A22 RB **Time:** 1235 **Temp:** 84°F
Coordinates (NAD83) Lat: 45.67151 **Long:** 108.67904
Is oil transferrable by touch with nitrile glove? (Y/N) N **Photos:**
Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete
Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 4' X 8'
Observations relative to wildlife (describe): side of ditch along wildlife trail

M

#58

ER sent 9/7

Attachment C2

Administratively Closed Oiled Wildlife Risk Assessment Forms

Oiled Wildlife Risk Assessment Form

Date: 09/05/2011 **Name:** Tara Nulph, Sean McAllister, Ron Eby

---

GPS Waypoint #: 121 **Division/Sector:** _____ **Time:** 11:45 **Temp:** _____

Coordinates (NAD83) Lat: 45.684406 **Long:** 108.660059

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8850

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** 6'X 4' Observations relative to wildlife (describe):

Thick oil, high traffic area, complete ground coverage, exposed to sun.

H

#30

GPS Waypoint #: _____ **Division/Sector:** A8 **Time:** 1408 **Temp:** 85°F

Coordinates (NAD83) Lat: * ~~Pending~~ 45.65517 **Long:** * Pending 108.75298

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** * Pending

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark / water

Contiguity: Patchy / Complete **Size:** 3' X 9' Observations relative to wildlife (describe):

Sheen covering small pool downstream from oiled stump with boom had sandpiper tracks around edges. We placed sorbent pads on this pool.

M

#31

---

closed NJK part of the stump exception generated by the UC.

GPS Waypoint #: _____ **Division/Sector:** _____ **Time:** _____ **Temp:** _____

Coordinates (NAD83) Lat: _____ **Long:** _____

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):

IBR

Oiled Wildlife Risk Assessment Form

Date: 9-7-11 Name: Erica Lander / Kate Fehring

#51

GPS Waypoint #: 189 el GPS Division/Sector: 28A Time: 1008 Temp: 70+

Coordinates (NAD83) Lat: 45.69070 Long: 108.64874

Is oil transferrable by touch with nitrile glove? (Y/N) ____ Photos: ____

Circle all that apply: Height: ground / 1-2 feet / 3-6 feet Material: soil / debris / grass / shrub / bark sheen water

Contiguity: Patchy / Complete Size: 50 x 20 ft Observations relative to wildlife (describe):
large pool w/sheen
additional pool nearby 20x10ft also with sheen
positive "stick test"
animal tracks present

closed 9/14 no action

#52

GPS Waypoint #: 190 Division/Sector: 28A Time: 1025 Temp: 70+

Coordinates (NAD83) Lat: 45.68928 Long: 108.65250

Is oil transferrable by touch with nitrile glove? (Y/N) ____ Photos: ____

Circle all that apply: Height: ground / 1-2 feet / 3-6 feet Material: soil / debris / grass / shrub / bark sheen water

Contiguity: Patchy / Complete Size: 100 x 7 ft Observations relative to wildlife (describe):
sheen on water of pool/channel
positive "stick test"
animal tracks present

closed 9/14 no action

#53

GPS Waypoint #: 191 Division/Sector: A28 Time: 1118 Temp: 73+

Coordinates (NAD83) Lat: 45.69128 Long: 108.64873

Is oil transferrable by touch with nitrile glove? (Y/N) ____ Photos: ____

Circle all that apply: Height: ground / 1-2 feet / 3-6 feet Material: soil / debris / grass / shrub / bark sheen water

Contiguity: Patchy / Complete Size: 30ft x 10f Observations relative to wildlife (describe):
sheen on water of pool
positive "stick test"
animal tracks present

closed 9/14 no action

Oiled Wildlife Risk Assessment Form

Date: 9-7-11 Name: Erica Lander / Katie Fehring

GPS Waypoint #: _____ Division/Sector: A29 Time: 1330 Temp: _____

Coordinates (NAD83) Lat: 45.69095 Long: 108.64275

H

Is oil transferrable by touch with nitrile glove? (Y/N) _____ Photos: _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark / sheen / water

Contiguity: Patchy / Complete **Size:** 30x15ft Observations relative to wildlife (describe):

large pool w/ sheen
positive "stick test" and sorbent pad
wildlife tracks present

#54

closed 9/14
No action

GPS Waypoint #: _____ Division/Sector: _____ Time: _____ Temp: _____

Coordinates (NAD83) Lat: _____ Long: _____

Is oil transferrable by touch with nitrile glove? (Y/N) _____ Photos: _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):

GPS Waypoint #: _____ Division/Sector: _____ Time: _____ Temp: _____

Coordinates (NAD83) Lat: _____ Long: _____

Is oil transferrable by touch with nitrile glove? (Y/N) _____ Photos: _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):

INTERNATIONAL BIRDRESCUE

65

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9/13/2011 **Name(s):** RON EBY

GPS Waypoint #: Ø22(EBY) **Division/Sector:** B/2RB **Time:** 10:11 **Temp:** _____

Coordinates (NAD83) **Lat:** N45.69462 **Long:** W108.62434

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** N

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 20'x20'

Observations relative to wildlife (describe): LOW. ~~NUMEROUS~~ 10 SPARROWS IN AREA AND DEBRIS PILE IS ATTRACTIVE HABITAT.

Submitted 14-SEP.-2011

Transmitted to Shawn C. 9/14

do

Signed off by NTK Date/Time 9/14/11 12:00.

closed based upon the field visit of 9/13 w/ MFWP, DEQ, OPS

Attachment C3

Oiled Wildlife Risk Assessment Forms Used to Generate Exception Reports

Oiled Wildlife Risk Assessment Form

Date: 9-7-11 **Name:** DUANE TITUS

GPS Waypoint #: _____ **Division/Sector:** B-19 **Time:** 1427 **Temp:** 85 °F.

Coordinates (NAD83) Lat: 45.73182 **Long:** 108.56330

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):
SOUTH WEST POINT OF AREA, WILDLIFE, BIRDS, INSECT ACTIVITY HIGH. EAST END OF B-19 ISLAND

#48

GPS Waypoint #: _____ **Division/Sector:** B-19 **Time:** 14.47 **Temp:** 85 °F.

Coordinates (NAD83) Lat: 45.73249 **Long:** 108.56430

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):
NORTH WEST ~~[illegible]~~ POINT OF AREA. EAST END OF B19 ISLAND

#49

GPS Waypoint #: _____ **Division/Sector:** B-19 **Time:** 14.53 **Temp:** 85 °F.

Coordinates (NAD83) Lat: 45.73292 **Long:** 108.56202

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Material:** soil / debris / grass / shrub / bark

Contiguity: Patchy / Complete **Size:** _____ Observations relative to wildlife (describe):
EAST POINT OF AREA. EAST END OF B-19 ISLAND

#50

INTERNATIONAL BIRDRESCUE

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9/7/11 **Name(s):** Sean McAllister, Tara Nulph

GPS Waypoint #: 124 **Division/Sector:** A23 RB **Time:** 0944 **Temp:** 62°F
Coordinates (NAD83) Lat: 45.67461 **Long:** 108.67268
Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8877
Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete
Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 100' X 1'
Observations relative to wildlife (describe): long band of oil on side of levee, contiguous w/ that of A24 RB

M

#55

GPS Waypoint #: 125 **Division/Sector:** A22 RB **Time:** **Temp:** 63°F
Coordinates (NAD83) Lat: 45.67274 **Long:** 108.67701
Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** 8878, 79, 80
Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete
Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 60' X 12'
Observations relative to wildlife (describe): Located in a mostly dry ditch / channel which has many animal (deer, raccoon, etc.) tracks – indicating frequent use

#56

ER sent 9/7

GPS Waypoint #: 127 **Division/Sector:** A23 RB **Time:** 1111 **Temp:** 65°F
Coordinates (NAD83) Lat: 45.67434 **Long:** 108.67356
Is oil transferrable by touch with ~~nitrile glove~~? (Y/N) Y - sorbent **Photos:** 8882, 8883
Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete
Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 50' X 7'
Observations relative to wildlife (describe): large pool w/ sheen on entire surface and fresh raccoon tracks around perimeter and 1 leopard frog inside (!) sheen passed the "stick-swirl" test and immediately stained sorbent pad.

H

#57

GPS Waypoint #: 128 **Division/Sector:** A22 RB **Time:** 1335 **Temp:** 84°F
Coordinates (NAD83) Lat: 45.67151 **Long:** 108.67904
Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:**
Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete
Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 4' X 5'
Observations relative to wildlife (describe): side of ditch along wildlife trail

M

#58

ER sent 9/7

INTERNATIONAL BIRDRESCUE

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9/8/2011 **Name(s):** Ron Eby / Duane Titus

GPS Waypoint #: 009 (EBY) **Division/Sector:** A 26 (A-26 JS) **Time:** 1503 **Temp:** _____
Coordinates (NAD83) Lat: N45.68547 **Long:** W108.66534 (EBY)
Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** DSCN0395 (EBY)
Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete
Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 5' x 1
Observations relative to wildlife (describe): LARGE FALLEN TREE SIDE & BOTTOM OF 1.5' DIAMETER FALLEN TREE COVERED W/ OIL. TREE ON TOP SHRUBS & OIL WILL DRIP INTO CLAY BASIN BELOW MED PRIORITY

#59

County report issued

GPS Waypoint #: 010 (EBY) **Division/Sector:** A-26 (A-26 JS) **Time:** 1518 **Temp:** _____
Coordinates (NAD83) Lat: N 45.68678 **Long:** W108.66493
Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** DSCN0396
Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete
Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** ~10' x 50'
Observations relative to wildlife (describe): GROVE OF TREES MANY TREES (220) IN GROVE HAVE OIL RINGS (LOW PRIORITY)

#60

Being worked by crew. Talked to Matt 9/14

GPS Waypoint #: _____ **Division/Sector:** _____ **Time:** _____ **Temp:** _____
Coordinates (NAD83) Lat: _____ **Long:** _____
Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____
Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete
Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** _____
Observations relative to wildlife (describe): _____

GPS Waypoint #: _____ **Division/Sector:** _____ **Time:** _____ **Temp:** _____
Coordinates (NAD83) Lat: _____ **Long:** _____
Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____
Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete
Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** _____
Observations relative to wildlife (describe): _____

INTERNATIONAL BIRDRESCUE

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9/9/2011 **Name(s):** DUANE TITUS RON EBY

HIGH PRIORITY

GPS Waypoint #: _____ **Division/Sector:** B-2 **Time:** _____ **Temp:** 85° F
Coordinates (NAD83) Lat: 45.69450 **Long:** 108.62562
Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____
Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete
Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 12' X 20'
Observations relative to wildlife (describe): OILED DEBRIS PILE WITH WATER UNDER PILE. HIGH PRIORITY. Passed on to Shawn C. 9/14/11

#61

HIGH PRIORITY

GPS Waypoint #: _____ **Division/Sector:** A-28 **Time:** _____ **Temp:** 88° F
Coordinates (NAD83) Lat: 45.68790 **Long:** 108.65162
Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____
Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete
Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 30' X 15'
Observations relative to wildlife (describe): OILED DEBRIS PILE ON GRAVEL BAR 150' NORTH WEST OF A-28 ISLAND. PILE HAS OILED WOOD DEBRIS OVER FLOWING WATER. THERE IS ALSO A SECTION OF OILED BOOM AT NORTH END OF DEBRIS PILE Exception report issued

#62

GPS Waypoint #: _____ **Division/Sector:** _____ **Time:** _____ **Temp:** _____
Coordinates (NAD83) Lat: _____ **Long:** _____
Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____
Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete
Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** _____
Observations relative to wildlife (describe): _____

GPS Waypoint #: _____ **Division/Sector:** _____ **Time:** _____ **Temp:** _____
Coordinates (NAD83) Lat: _____ **Long:** _____
Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____
Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete
Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** _____
Observations relative to wildlife (describe): _____

Attachment C4

Oiled Wildlife Risk Assessment Forms Signed By Ops

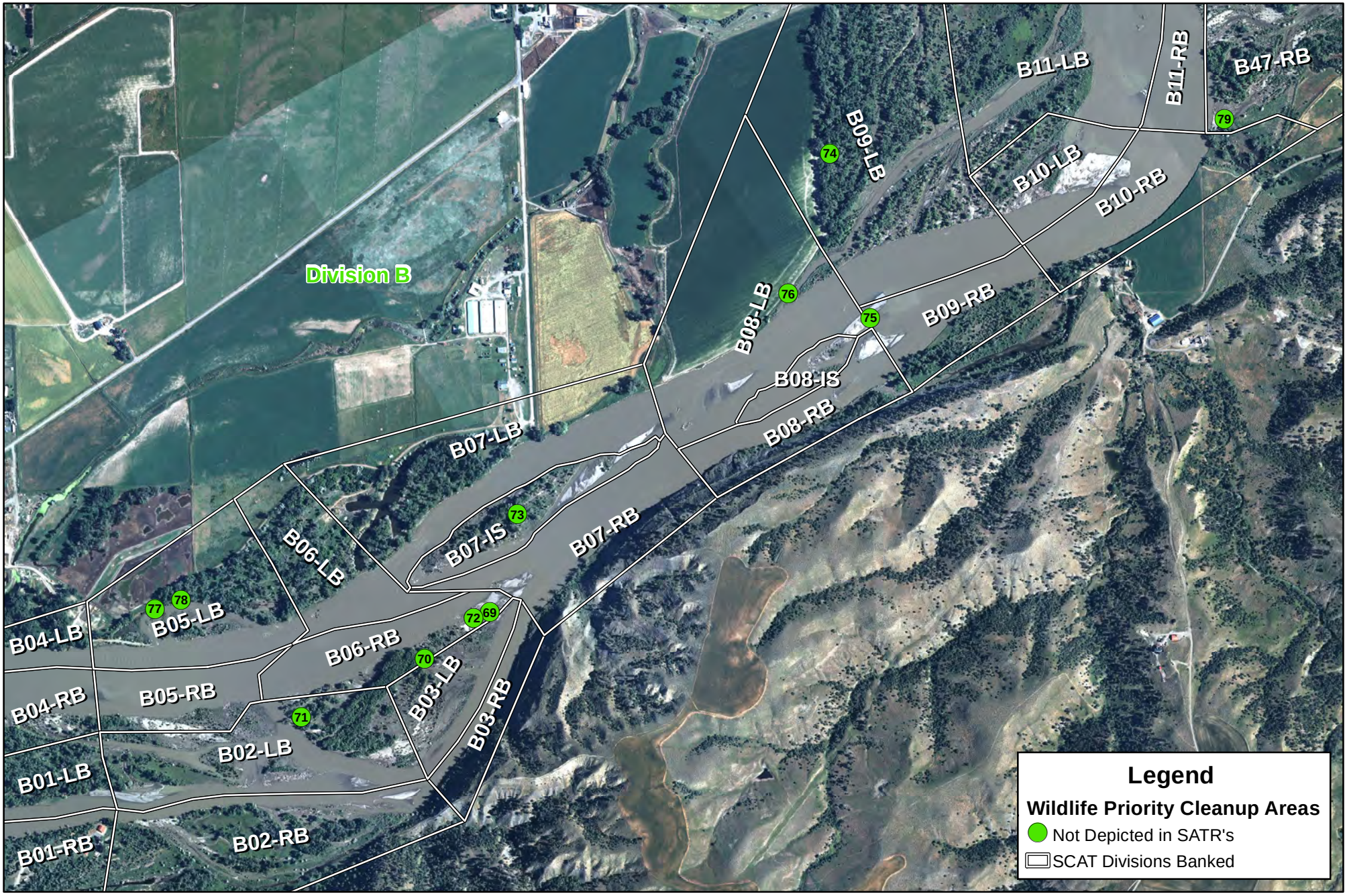
ExxonMobil Pipeline

N 1:12,000

Silvertip Pipeline Incident
Oiled Wildlife Risk Assessment Form Data Map
Division B

10/25/2011

The Response Group



0 1,000 2,000 4,000 Feet

Figure C4
Wildlife Resources

Date: 10/25/2011 Time: 2:48:35 PM

ExxonMobil Pipeline

N 1:6,000

Silvertip Pipeline Incident
Oiled Wildlife Risk Assessment Form Data Map
Division B

10/25/2011

The Response Group

0 500 1,000 2,000 Feet

Figure C5
Wildlife Resources

Date: 10/25/2011 Time: 2:52:08 PM

ExxonMobil Pipeline

N 1:6,000

Silvertip Pipeline Incident
Oiled Wildlife Risk Assessment Form Data Map
Division B

10/25/2011

The Response Group

0 500 1,000 2,000 Feet

Figure C6
Wildlife Resources

Date: 10/25/2011 Time: 2:55:50 PM

INTERNATIONAL BIRDRESCUE

63

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9/13/2011 **Name(s):** RON EBY

GPS Waypoint #: 024 **Division/Sector:** A28RB **Time:** 13:29 **Temp:** _____

Coordinates (NAD83) **Lat:** N45.68601 **Long:** W108.64792

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** N

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 5'x10'

Observations relative to wildlife (describe): LOW

THERE ARE LOTS OF LOG DEBRIS PILES IN THIS AREA. A GOOD NUMBER OF LOGS ARE HEAVILY OILED ON BOTTOM WITH WET OIL THAT IS EASILY TRANSFERABLE.

Submitted 14-SEP-2011

Signed off by [signature] 9/22/11 Date/Time _____

[signature] 9/22/11 14:27
DEQ

INTERNATIONAL BIRDRESCUE

64

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9/13/2010 **Name(s):** Ron Eby B23RB NTK

GPS Waypoint #: Ø2Ø(EBY) **Division/Sector:** B/20RB **Time:** 0812 **Temp:** _____

Coordinates (NAD83) **Lat:** N45.73428 **Long:** W108.55498

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** N

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 5'x10'

Observations relative to wildlife (describe): LOW RISK, BUT GOOD AREA FOR BIRDS & MAMMALS TO USE

Submitted 14-SEP.-2011

A Kautzman discussed w/ D. Titus and R. Eby site was addressed by water ops crew

Signed off by NTK Date/Time 9/19/2011

INTERNATIONAL BIRDRESCUE

66

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9/13/2011 **Name(s):** RON EBY

GPS Waypoint #: Ø23 **Division/Sector:** A/28RB **Time:** 1320 **Temp:** _____

Coordinates (NAD83) **Lat:** N 45.68611 **Long:** W-108.64754

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** N

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 10'x10'

Observations relative to wildlife (describe): (LOW) OILED LOGS IN DEBRIS PILE. SAW SQUIRREL IN AREA. OIL IS ON BOTTOM OF LOGS, TURNED SOME OVER AND FOUND WET OIL.

Submitted 14-SEP-2011

Signed off by 9/22/11 **Date/Time** _____

Laura Alvey 9/22/11 14:47
DEQ

67

INTERNATIONAL BIRDRESCUE

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 13 Sep. - 2011 **Name(s):** Susan Kavenagia, Erica Lander, Ron Eby

GPS Waypoint #: _____ **Division/Sector:** A-28 RB **Time:** 1252 **Temp:** 84°

Coordinates (NAD83) **Lat:** 45.68804 **Long:** 108.64542

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** _____

Observations relative to wildlife (describe): thick oil under log, grass, and soil. "Coffee Grounds." - Flagged (Pink). transferrable.

Submitted 14-Sep.-2011

Signed off by [signature] 9/22/11 **Date/Time** _____

[signature] 9/22/11 14:48
DEQ

INTERNATIONAL BIRDRESCUE

68

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9-13-11 Name(s): Erica Lander | Susan Kaveggia / Ron Eby

GPS Waypoint #: _____ Division/Sector: A26 Time: 1012 Temp: ~70

Coordinates (NAD83) Lat: 45.68699 / 45.68724 Long: 108.66731 / 108.66659

Is oil transferrable by touch with nitrile glove? (Y/N) _____ Photos: _____

Circle all that apply: Height: ground / 1-2 feet / 3-6 feet Contiguity: Patchy / Complete approx

Material: soil / debris / grass / shrub / bark / water / other (describe) Size of area (ft) 500ft x 100ft

Observations relative to wildlife (describe): Flagged areas (pink) x 6+ patchy areas transferrable oil to be addressed throughout small A26 island - grass w/ oiling in multiple patches - debris piles - shrub | tree leaves | limbs. suggest sweep of entire island to recheck for any additional areas. Coordinates provided will lead to other flagged areas - Island is quite small.

Submitted 9/14/11 (EL)

Signed off by Nate Cook Date/Time 9/16/11 1700

INTERNATIONAL BIRDRESCUE

69

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9/13/11 **Name(s):** Erica Lander / Susan Kaveggia / Ron Eby

GPS Waypoint #: _____ **Division/Sector:** B1e **Time:** 1320 **Temp:** ~75

Coordinates (NAD83) **Lat:** 45.69799 **Long:** 108.61861

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft²)** ~10x5

Observations relative to wildlife (describe): Flagged (Pink)
Debris pile w/ transferable oil

Submitted 9/14/11 EL

Signed off by Nate Cook

Date/Time 1700 9/15/11

Eric Gronek 9/15/11

70

INTERNATIONAL BIRDRESCUE

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9/13/11 **Name(s):** Erica Lander Susan Kaveggia Ron Eby

GPS Waypoint #: _____ **Division/Sector:** B6 **Time:** 1330 **Temp:** ~75

Coordinates (NAD83) **Lat:** 45.69704 **Long:** 108.620603

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** _____

Observations relative to wildlife (describe): Flagged (pink) debris pile oiled transferable - under log - strong smell of oil in this area due to heavy sun exposure patchy areas of transferable oil

Submitted 9/14/11 EL

Signed off by Nate Cook Date/Time 1700 9/15/11

SE Gronneck 9/15/11

INTERNATIONAL BIRDRESCUE

#71

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9/13/11 **Name(s):** Erica Lander Susan Kavaggia Ron Eby

GPS Waypoint #: _____ **Division/Sector:** B10 **Time:** 1430 **Temp:** ~75

Coordinates (NAD83) **Lat:** 45.69587 **Long:** 108.62442

Is oil transferrable by touch with nitrile glove? (Y/N) ____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 10x5

Observations relative to wildlife (describe): flagged (pink) debris pile w/ patchy areas of transferable oil. ~~old telephone pole in debris pile also~~

Submitted 9/14/11 EL

Signed off by Nate Cook Date/Time 1700 9/15/11

S.E. Gronnek 9/15/11

INTERNATIONAL BIRDRESCUE

72

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9-13-11 Name(s): Erica Lander / Susan Kaveggia / Ron Eby

GPS Waypoint #: _____ Division/Sector: B1e Time: 1300 Temp: ~75

Coordinates (NAD83) Lat: 45.69788 Long: 108.61911

Is oil transferrable by touch with nitrile glove? (Y/N) _____ Photos: _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** ~10x5

Observations relative to wildlife (describe): Flagged (Pink)

Debris pile w/transferable oil

Submitted 9/14/11 (EL)

Signed off by: Nate Cook Date/Time 1700 9/15/11

J.E. Gronock 9/16/11

Water Ops Note

73

INTERNATIONAL BIRDRESCUE

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9/14/2011 **Name(s):** Ron Eby / Duane Titus

GPS Waypoint #: 080(EBY) **Division/Sector:** B7Zu **Time:** 1118 **Temp:** 57°

Coordinates (NAD83) Lat: N45.69990 **Long:** W108.71738

Is oil transferrable by touch with nitrile glove? (Y/N) ✓ **Photos:** Y

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 100'x50'

Observations relative to wildlife (describe):

MIDDLE OF ISLAND HAS DEBRIS PILES W/OIL AND THERE ARE NUMEROUS OILED GRASSY PATCHES. ENDS OF ISLAND ARE LESS IMPACTED.

CALLED MATT DELONG @ 1120, APPARENTLY NEEDS EXXON DISPATCH? DUANE CALLED NICK

Signed off by NATE COOK Date/Time 9/21/11 1500

BP INSPECTED BY N. COOK & R. VICENTE 9/21/11

9/21/11 Approved as presented above

L

74

[redacted]

INTERNATIONAL BIRDRESCUE

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9/16/11 **Name(s):** Erica Lander / Susan Kaveggia

GPS Waypoint #: _____ **Division/Sector:** B9 LB **Time:** 0940 **Temp:** ~65°

Coordinates (NAD83) Lat: 45.70754 **Long:** 108.60786

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)**_____

Observations relative to wildlife (describe):

Flagging placed at points given as well as between points. Transferable patchy oil in debris and vegetation. Contact IBR when work begins

45.70780 / 108.60806
45.70808 / 108.60793 ★ likely DEN
45.70912 / 108.60744
45.70928 / 108.60725
45.70994 / 108.60728

several areas of animal activity and probable dens.
Wendy Massey 336-290-3976

Signed off by _____ Date/Time 10-25-11

(See Operation Schedule issued on 9-23 indicating work comple on 9-22

Water

75

[redacted]

INTERNATIONAL BIRDRESCUE

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9/16/2011 **Name(s):** DUANE TITUS

GPS Waypoint #: _____ **Division/Sector:** B-8-9 **Time:** 0900 **Temp:** 64 °F

Coordinates (NAD83) **Lat:** 45.70401 Island **Long:** 108.60679

Is oil transferrable by touch with nitrile glove? (Y/N) _____ **Photos:** _____

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 600' X 50'

Observations relative to wildlife (describe): B-8-9 ISLAND OILED DEBRIS PILE, GOOD WILDLIFE HABITAT, MAMMAL TRACKS BIRD SCAT ON ON AND AROUND DEBRIS PILE, DEBRIS PILE 600 FT.

Signed off by NATE COOK Date/Time 1600 9/21/11

B8-Island Inspected By N. Cook & R. Vicente 9/21/11

Accepted/Approved 9/21/11 AS NOTED ABOVE

L

76

[redacted]

INTERNATIONAL BIRDRESCUE

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9/16/2011 **Name(s):** RON EBY

GPS Waypoint #: 038/9EBY **Division/Sector:** B8 LB **Time:** 1015 **Temp:** _____

Coordinates (NAD83) **Lat:** (38) 45.70458 (39) N 45.70527 **Long:** (38) W 108.60925 (39) W 108.60844

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** N

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 10'x100'

Observations relative to wildlife (describe):

BANK BETWEEN COAN FIELD AND SMALL CREEK HAS PATCHES OF OIL BETWEEN WAYPOINT # 38 + 39

Signed off by [signature] Date/Time 9-20-11

(See operations schedule issued on 9-20 indicating work was done on 9-20

77

INTERNATIONAL BIRD RESCUE

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9-18-11 Name(s): Erica Lander / Susan Kaveggia

GPS Waypoint #: _____ Division/Sector: B5 LB Time: 1440 Temp: ~70°

Coordinates (NAD83) Lat: 45.69827 / 45.69815 Long: 108.62877 / 108.62924

Is oil transferrable by touch with nitrile glove? (Y/N) yes Photos: —

Circle all that apply: Height: ground / 1-2 feet / 3-6 feet Contiguity: Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) Size of area (ft) 200ft x 4

Observations relative to wildlife (describe):

thick band in trees / shrubs / grass flagged
tacky transferable oil - band located above pond

Signed off by NATE COOK Date/Time 9/26/11 1500

9/26/11

78

INTERNATIONAL BIRDRESCUE

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 20-Sep.-2011 **Name(s):** S. Kavegia, E. Lander, R. Eby, D. Mathews

GPS Waypoint #: _____ **Division/Sector:** B-5 LEFT BANK **Time:** 1015 **Temp:** 48°F

Coordinates (NAD83) **Lat:** 45.69845 **Long:** 108.62797

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** No

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)**_____

Observations relative to wildlife (describe): Re-visited area on 20-Sep.-2011 and Marked additional oiled areas. All areas were flagged for clean-up crew. Numerous (>20) oiled patties on ground. Oiled areas in [redacted] brushes and smaller trees.

45.69836
108.62805

45.69827
108.62659 → Most Eastern point that was flagged

Signed off by Nate Cook Date/Time 9/26/11 1500

9/26/11

79

INTERNATIONAL BIRDRESCUE

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9-20-2011 Name(s): DUANE TITUS

GPS Waypoint #: _____ Division/Sector: B-11 RB Time: 1054 Temp: 64° F.

Coordinates (NAD83) Lat: 45.70801 Long: 108.59585

Is oil transferrable by touch with nitrile glove? (Y/N) Y Photos: _____

Circle all that apply: Height: ground / 1-2 feet / 3-6 feet Contiguity: Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) Size of area (ft) 20 X 40 FT.

Observations relative to wildlife (describe): TOAD SCAT IN PILE MAMMAL TRACKS AROUND PILE

OILED DEBRIS PILE B-11 RB, OILED LOGS AND WOOD DEBRIS.
TWO DEBRIS PILES

Signed off by NATE COOK Date/Time 9/27/11 1430

BOZEMAN CREW

9/27/11

Water

9/23/11

80

INTERNATIONAL BIRDRESCUE

Silvertip Incident
Oiled Wildlife Hazard Assessment Form

Date: 9/21/2011 **Name(s):** DUANE TITUS, DORIS DUNCAN, ERIK LANDER, SUSAN KANEGSIA, DANIELLE MATTOX, RON EBY

GPS Waypoint #: SEE NOTES **Division/Sector:** B43 RB **Time:** 0830-1030 **Temp:** _____

Coordinates (NAD83) Lat: see notes **Long:** See notes

Is oil transferrable by touch with nitrile glove? (Y/N) Y **Photos:** No

Circle all that apply: **Height:** ground / 1-2 feet / 3-6 feet **Contiguity:** Patchy / Complete

Material: soil / debris / grass / shrub / bark / water / other (describe) **Size of area (ft)** 1000' x 50'

Observations relative to wildlife (describe):

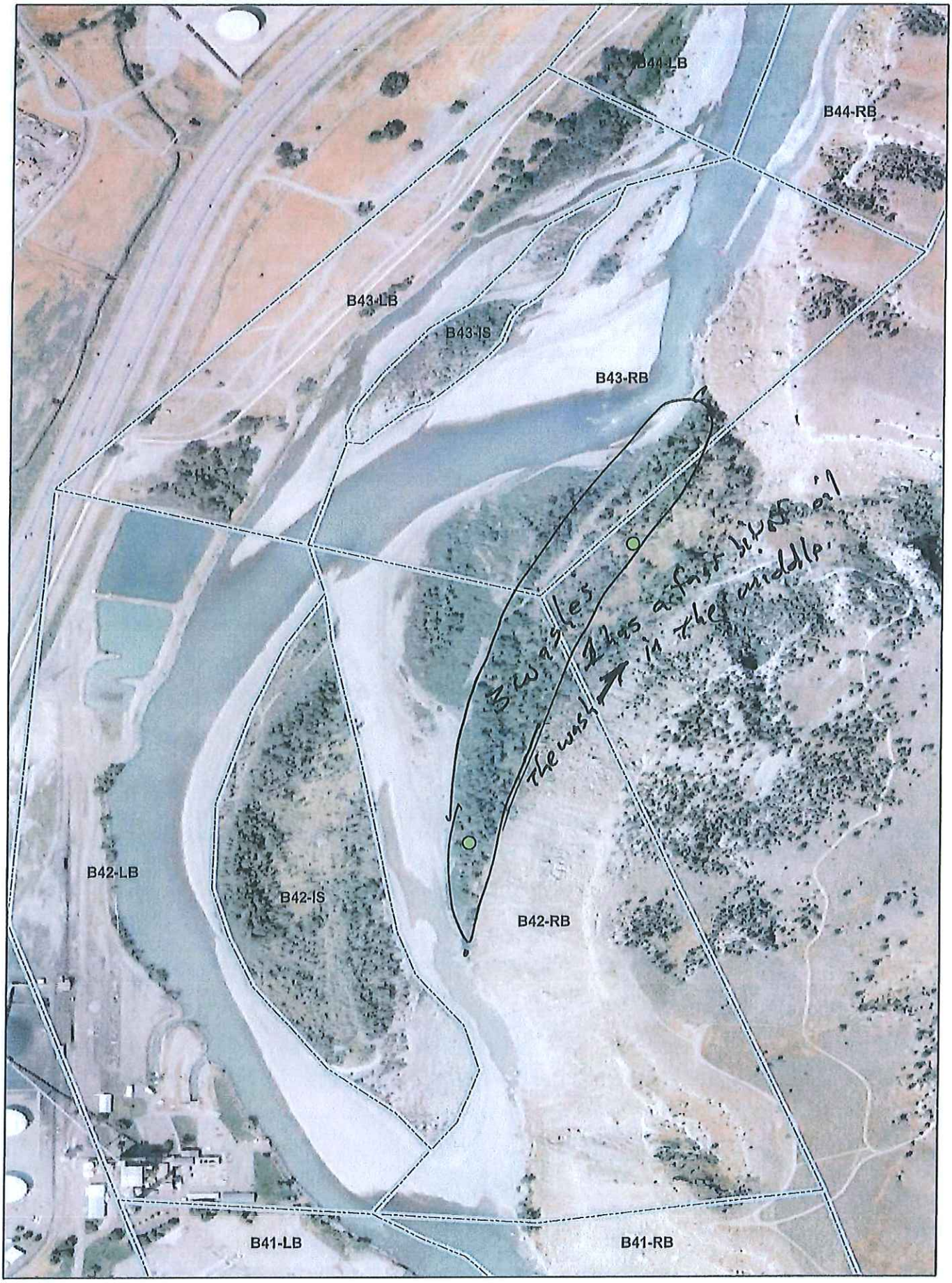
LARGE SWATH OF BANKS STILL OILED. MOST SOUTHERN (UPSTREAM POINT) N45.77969 W108.47713. MOST NORTHERN (DOWNSTREAM POINT): 45.78341 108.47510
flagged russian olive w/oily branches 45.78157 108.47621 transferable.

* Beware of Wildlife → there were Bear Tracks spotted and snake tracks

Signed off by NATE COOK **Date/Time** 1615 9/23/11

G. BOSEMAN - FOREMAN, REMOVED 26 BAGS OF OILY DEBRIS.

(509) 990-3128 - Call Nate about safety wildlife concerns


B44-LB
B44-RB
B43-LB
B43-IS
B43-RB
B42-LB
B42-IS
B42-RB
B41-LB
B41-RB
Bewaslers
The wash has a fast bend in the middle.

Appendix D

Environmental Data Screening Levels

Silvertip Incident
Environmental Sampling Screening Levels
August 25, 2011

MATRIX	CAS_NUM	Analyte	Screening Level	UNITS	CTEH_Source
Water_Surface	71-55-6	1,1,1-Trichloroethane	200	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	71-55-6	1,1,1-Trichloroethane	0.2	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	75-35-4	1,1-Dichloroethylene	0.57	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	75-35-4	1,1-Dichloroethylene	0.00057	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	95-94-3	1,2,4,5-Tetrachlorobenzene	0.97	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	95-94-3	1,2,4,5-Tetrachlorobenzene	0.00097	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	120-82-1	1,2,4-Trichlorobenzene	35	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	120-82-1	1,2,4-Trichlorobenzene	0.035	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	96-12-8	1,2-Dibromo-3-chloropropane	0.2	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	96-12-8	1,2-Dibromo-3-chloropropane	0.0002	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	95-50-1	1,2-Dichlorobenzene	420	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	95-50-1	1,2-Dichlorobenzene	0.42	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	122-66-7	1,2-Diphenylhydrazine	0.36	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	122-66-7	1,2-Diphenylhydrazine	0.00036	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	541-73-1	1,3-Dichlorobenzene	320	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	541-73-1	1,3-Dichlorobenzene	0.32	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	106-46-7	1,4-Dichlorobenzene	75	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	106-46-7	1,4-Dichlorobenzene	0.075	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	108-60-1	2,2'-oxybis(1- Chloropropane)	1400	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	108-60-1	2,2'-oxybis(1- Chloropropane)	1.4	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	95-95-4	2,4,5-Trichlorophenol	1800	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	95-95-4	2,4,5-Trichlorophenol	1.8	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	88-06-2	2,4,6-Trichlorophenol	14	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	88-06-2	2,4,6-Trichlorophenol	0.014	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	120-83-2	2,4-Dichlorophenol	77	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	120-83-2	2,4-Dichlorophenol	0.077	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	105-67-9	2,4-Dimethylphenol	380	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	105-67-9	2,4-Dimethylphenol	0.38	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	121-14-2	2,4-Dinitrotoluene	1.1	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	121-14-2	2,4-Dinitrotoluene	0.0011	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	606-20-2	2,6-Dinitrotoluene	0.5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	606-20-2	2,6-Dinitrotoluene	0.0005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	91-58-7	2-Chloronaphthalene	1000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	91-58-7	2-Chloronaphthalene	1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	95-57-8	2-Chlorophenol	81	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	95-57-8	2-Chlorophenol	0.081	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	91-94-1	3,3'-Dichlorobenzidine	0.21	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	91-94-1	3,3'-Dichlorobenzidine	0.00021	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	534-52-1	4,6-Dinitro-2-methylphenol	13	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	534-52-1	4,6-Dinitro-2-methylphenol	0.013	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	59-50-7	4-Chloro-3-methylphenol	3000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	59-50-7	4-Chloro-3-methylphenol	3	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	100-02-7	4-Nitrophenol	60	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	100-02-7	4-Nitrophenol	0.06	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	83-32-9	Acenaphthene	670	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	83-32-9	Acenaphthene	0.67	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	107-02-8	Acrolein	3	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	107-02-8	Acrolein	0.003	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	107-02-8	Acrolein	60	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	107-02-8	Acrolein	0.06	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	107-13-1	Acrylonitrile	0.51	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	107-13-1	Acrylonitrile	0.00051	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	AC5-8-A	Aliphatic (C05-C08).Adjusted	700	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	AC5-8-A	Aliphatic (C05-C08).Adjusted	0.7	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	AC5-8-U	Aliphatic (C05-C08).Unadjusted	700	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	AC5-8-U	Aliphatic (C05-C08).Unadjusted	0.7	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	AC9-12-A	Aliphatic (C09-C12).Adjusted	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	AC9-12-A	Aliphatic (C09-C12).Adjusted	1	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	AC9-12-U	Aliphatic (C09-C12).Unadjusted	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	AC9-12-U	Aliphatic (C09-C12).Unadjusted	1	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	AC9-18	Aliphatic (C09-C18)	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	AC9-18	Aliphatic (C09-C18)	1	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	AC19-36	Aliphatic (C19-C36)	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	AC19-36	Aliphatic (C19-C36)	1	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	7429-90-5	Aluminum	87	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for (Aquatic Life)
Water_Surface	7429-90-5	Aluminum	0.087	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for (Aquatic Life)
Water_Surface	120-12-7	Anthracene	8300	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	120-12-7	Anthracene	8.3	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	ARC9-10	Aromatic (C09-C10)	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	ARC9-10	Aromatic (C09-C10)	1	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	ARC11-22	Aromatic (C11-C22)	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	ARC11-22	Aromatic (C11-C22)	1	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	7440-38-2	Arsenic	10	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	7440-38-2	Arsenic	0.01	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	1912-24-9	Atrazine	3	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	1912-24-9	Atrazine	0.003	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	7440-39-3	Barium	1000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	7440-39-3	Barium	1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	71-43-2	Benzene	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	71-43-2	Benzene	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	92-87-5	Benzidine	0.00086	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	92-87-5	Benzidine	8.6E-07	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	56-55-3	Benzo(a)anthracene	0.038	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	56-55-3	Benzo(a)anthracene	0.000038	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	50-32-8	Benzo(a)pyrene	0.038	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	50-32-8	Benzo(a)pyrene	0.000038	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	205-99-2	Benzo(b)fluoranthene	0.038	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	205-99-2	Benzo(b)fluoranthene	0.000038	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	207-08-9	Benzo(k)fluoranthene	0.038	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	207-08-9	Benzo(k)fluoranthene	0.000038	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	111-44-4	bis(2-Chloroethyl)ether	0.3	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	111-44-4	bis(2-Chloroethyl)ether	0.0003	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)

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Water_Surface	85-68-7	Butylbenzylphthalate	1500	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	85-68-7	Butylbenzylphthalate	1.5	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	7440-43-9	Cadmium	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	7440-43-9	Cadmium	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	108-90-7	Chlorobenzene, total	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	108-90-7	Chlorobenzene, total	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	67-66-3	Chloroform	57	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	67-66-3	Chloroform	0.057	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	7440-47-3	Chromium	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	7440-47-3	Chromium	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	218-01-9	Chrysene	0.038	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	218-01-9	Chrysene	0.000038	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	156-59-2	cis-1,2-Dichloroethylene	70	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	156-59-2	cis-1,2-Dichloroethylene	0.07	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	10061-01-5	cis-1,3-Dichloropropene	3.4	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	10061-01-5	cis-1,3-Dichloropropene	0.0034	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	117-81-7	Di(2-ethylhexyl)phthalate	6	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	117-81-7	Di(2-ethylhexyl)phthalate	0.006	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	53-70-3	Dibenzo(a,h)anthracene	0.038	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	53-70-3	Dibenzo(a,h)anthracene	0.000038	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	124-48-1	Dibromochloromethane	4	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	124-48-1	Dibromochloromethane	0.004	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	106-93-4	Dibromoethane	0.004	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	106-93-4	Dibromoethane	0.000004	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	75-27-4	Dichlorobromomethane	5.5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	75-27-4	Dichlorobromomethane	0.0055	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	75-71-8	Dichlorodifluoromethane	1000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	75-71-8	Dichlorodifluoromethane	1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	84-66-2	Diethylphthalate	17000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	84-66-2	Diethylphthalate	17	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	131-11-3	Dimethylphthalate	270000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	131-11-3	Dimethylphthalate	270	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	51-28-5	Dinitrophenol	69	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	51-28-5	Dinitrophenol	0.069	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	88-85-7	Dinoseb	7	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	88-85-7	Dinoseb	0.007	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	100-41-4	Ethylbenzene	530	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	100-41-4	Ethylbenzene	0.53	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	107-06-2	Ethylene dichloride	3.8	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	107-06-2	Ethylene dichloride	0.0038	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	206-44-0	Fluoranthene	130	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	206-44-0	Fluoranthene	0.13	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	86-73-7	Fluorene	1100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	86-73-7	Fluorene	1.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	118-74-1	Hexachlorobenzene	0.0028	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	118-74-1	Hexachlorobenzene	0.0000028	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	87-68-3	Hexachlorobutadiene	4.4	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	87-68-3	Hexachlorobutadiene	0.0044	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	77-47-4	Hexachlorocyclopentadiene	40	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	77-47-4	Hexachlorocyclopentadiene	0.04	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	67-72-1	Hexachloroethane	14	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	67-72-1	Hexachloroethane	0.014	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	193-39-5	Indeno(1,2,3-cd)- pyrene	0.038	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	193-39-5	Indeno(1,2,3-cd)- pyrene	0.000038	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	78-59-1	Isophorone	350	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	78-59-1	Isophorone	0.35	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	7439-92-1	Lead	15	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	7439-92-1	Lead	0.015	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	179601-23-1	m&p-Xylene	10000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	179601-23-1	m&p-Xylene	10	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	7439-97-6	Mercury	0.05	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	7439-97-6	Mercury	0.00005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	74-83-9	Methyl Bromide	47	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	74-83-9	Methyl Bromide	0.047	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	74-87-3	Methyl Chloride	30	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	74-87-3	Methyl Chloride	0.03	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	1634-04-4	Methyl tert-Butyl Ether	30	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	1634-04-4	Methyl tert-Butyl Ether	0.03	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	75-09-2	Methylene chloride	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	75-09-2	Methylene chloride	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	91-20-3	Naphthalene	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	91-20-3	Naphthalene	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	84-74-2	n-Butylphthalate	2000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	84-74-2	n-Butylphthalate	2	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	7440-02-0	Nickel	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	7440-02-0	Nickel	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	98-95-3	Nitrobenzene	17	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	98-95-3	Nitrobenzene	0.017	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	62-75-9	N-Nitrosodimethylamine	0.0069	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	62-75-9	N-Nitrosodimethylamine	0.0000069	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	621-64-7	N-Nitrosodi-n-propylamine	0.05	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	621-64-7	N-Nitrosodi-n-propylamine	0.00005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	86-30-6	N-Nitrosodiphenylamine	33	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	86-30-6	N-Nitrosodiphenylamine	0.033	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	95-47-6	o-Xylene	10000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	95-47-6	o-Xylene	10	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	87-86-5	Pentachlorophenol	1	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	87-86-5	Pentachlorophenol	0.001	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	108-95-2	Phenol	300	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	108-95-2	Phenol	0.3	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	78-87-5	Propylene dichloride	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	78-87-5	Propylene dichloride	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	129-00-0	Pyrene	830	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	129-00-0	Pyrene	0.83	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)

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Water_Surface	7782-49-2	Selenium	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	7782-49-2	Selenium	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	7440-22-4	Silver	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	7440-22-4	Silver	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	100-42-5	Styrene	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	100-42-5	Styrene	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	79-34-5	Tetrachloroethane	1.7	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	79-34-5	Tetrachloroethane	0.0017	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	127-18-4	Tetrachloroethylene	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	127-18-4	Tetrachloroethylene	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	56-23-5	Tetrachloromethane	2.3	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	56-23-5	Tetrachloromethane	0.0023	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	108-88-3	Toluene	1000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	108-88-3	Toluene	1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	TEH	Total Extractable Hydrocarbons	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	TEH	Total Extractable Hydrocarbons	1	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	TPHC	Total Purgeable Hydrocarbons	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	TPHC	Total Purgeable Hydrocarbons	1	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Surface	156-60-5	trans-1,2-Dichloroethylene	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	156-60-5	trans-1,2-Dichloroethylene	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	10061-02-6	trans-1,3-Dichloropropene	2	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	10061-02-6	trans-1,3-Dichloropropene	0.002	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	75-25-2	Tribromomethane	43	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	75-25-2	Tribromomethane	0.043	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	79-00-5	Trichloroethane	3	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	79-00-5	Trichloroethane	0.003	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	79-01-6	Trichloroethylene	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	79-01-6	Trichloroethylene	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	75-69-4	Trichlorofluoromethane	10000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	75-69-4	Trichlorofluoromethane	10	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	75-01-4	Vinyl Chloride	0.25	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	75-01-4	Vinyl Chloride	0.00025	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	1330-20-7	Xylene (total)	10000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
Water_Surface	1330-20-7	Xylene (total)	10	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Surface Water (Human Health)
water_Irrigation	71-55-6	1,1,1-Trichloroethane	200	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	71-55-6	1,1,1-Trichloroethane	0.2	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	75-35-4	1,1-Dichloroethylene	0.57	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	75-35-4	1,1-Dichloroethylene	0.00057	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Irrigation	95-94-3	1,2,4,5-Tetrachlorobenzene	0.97	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Irrigation	95-94-3	1,2,4,5-Tetrachlorobenzene	0.00097	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	120-82-1	1,2,4-Trichlorobenzene	35	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	120-82-1	1,2,4-Trichlorobenzene	0.035	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	96-12-8	1,2-Dibromo-3-chloropropane	0.2	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	96-12-8	1,2-Dibromo-3-chloropropane	0.0002	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	95-50-1	1,2-Dichlorobenzene	420	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	95-50-1	1,2-Dichlorobenzene	0.42	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	122-66-7	1,2-Diphenylhydrazine	0.36	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	122-66-7	1,2-Diphenylhydrazine	0.00036	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	541-73-1	1,3-Dichlorobenzene	320	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	541-73-1	1,3-Dichlorobenzene	0.32	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	106-46-7	1,4-Dichlorobenzene	75	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	106-46-7	1,4-Dichlorobenzene	0.075	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	108-60-1	2,2'-oxybis(1- Chloropropane)	1400	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	108-60-1	2,2'-oxybis(1- Chloropropane)	1.4	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	95-95-4	2,4,5-Trichlorophenol	1800	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	95-95-4	2,4,5-Trichlorophenol	1.8	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	88-06-2	2,4,6-Trichlorophenol	14	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	88-06-2	2,4,6-Trichlorophenol	0.014	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	120-83-2	2,4-Dichlorophenol	77	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	120-83-2	2,4-Dichlorophenol	0.077	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	105-67-9	2,4-Dimethylphenol	380	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	105-67-9	2,4-Dimethylphenol	0.38	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	121-14-2	2,4-Dinitrotoluene	1.1	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	121-14-2	2,4-Dinitrotoluene	0.0011	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	606-20-2	2,6-Dinitrotoluene	0.5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	606-20-2	2,6-Dinitrotoluene	0.0005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	91-58-7	2-Chloronaphthalene	1000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	91-58-7	2-Chloronaphthalene	1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	95-57-8	2-Chlorophenol	81	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	95-57-8	2-Chlorophenol	0.081	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	91-94-1	3,3'-Dichlorobenzidine	0.21	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	91-94-1	3,3'-Dichlorobenzidine	0.00021	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	534-52-1	4,6-Dinitro-2-methylphenol	13	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	534-52-1	4,6-Dinitro-2-methylphenol	0.013	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	59-50-7	4-Chloro-3-methylphenol	3000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	59-50-7	4-Chloro-3-methylphenol	3	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	100-02-7	4-Nitrophenol	60	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	100-02-7	4-Nitrophenol	0.06	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	83-32-9	Acenaphthene	670	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	83-32-9	Acenaphthene	0.67	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	AC5-8-A	Aliphatic (C05-C08).Adjusted	700	ug/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	AC5-8-A	Aliphatic (C05-C08).Adjusted	0.7	mg/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	AC5-8-U	Aliphatic (C05-C08).Unadjusted	700	ug/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	AC5-8-U	Aliphatic (C05-C08).Unadjusted	0.7	mg/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	AC9-12-A	Aliphatic (C09-C12).Adjusted	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	AC9-12-A	Aliphatic (C09-C12).Adjusted	1	mg/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	AC9-12-U	Aliphatic (C09-C12).Unadjusted	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	AC9-12-U	Aliphatic (C09-C12).Unadjusted	1	mg/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	AC9-18	Aliphatic (C09-C18)	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	AC9-18	Aliphatic (C09-C18)	1	mg/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	AC19-36	Aliphatic (C19-C36)	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	AC19-36	Aliphatic (C19-C36)	1	mg/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	120-12-7	Anthracene	8300	ug/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	120-12-7	Anthracene	8.3	mg/L	MDEQ Tier 1 Groundwater RBSL

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water_Irrigation	ARC9-10	Aromatic (C09-C10)	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	ARC9-10	Aromatic (C09-C10)	1	mg/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	ARC11-22	Aromatic (C11-C22)	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	ARC11-22	Aromatic (C11-C22)	1	mg/L	MDEQ Tier 1 Groundwater RBSL
water_Irrigation	1912-24-9	Atrazine	3	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	1912-24-9	Atrazine	0.003	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	71-43-2	Benzene	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	71-43-2	Benzene	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	92-87-5	Benzidine	0.00086	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	92-87-5	Benzidine	8.6E-07	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	56-55-3	Benzo(a)anthracene	0.038	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	56-55-3	Benzo(a)anthracene	0.000038	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	50-32-8	Benzo(a)pyrene	0.038	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	50-32-8	Benzo(a)pyrene	0.000038	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	205-99-2	Benzo(b)fluoranthene	0.038	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	205-99-2	Benzo(b)fluoranthene	0.000038	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	207-08-9	Benzo(k)fluoranthene	0.038	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	207-08-9	Benzo(k)fluoranthene	0.000038	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	111-44-4	bis(2-Chloroethyl)ether	0.3	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	111-44-4	bis(2-Chloroethyl)ether	0.0003	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	85-68-7	Butylbenzylphthalate	1500	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	85-68-7	Butylbenzylphthalate	1.5	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	108-90-7	Chlorobenzene, total	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	108-90-7	Chlorobenzene, total	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	67-66-3	Chloroform	57	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	67-66-3	Chloroform	0.057	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	218-01-9	Chrysene	0.038	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	218-01-9	Chrysene	0.000038	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	156-59-2	cis-1,2-Dichloroethylene	70	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	156-59-2	cis-1,2-Dichloroethylene	0.07	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	10061-01-5	cis-1,3-Dichloropropene	3.4	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	10061-01-5	cis-1,3-Dichloropropene	0.0034	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	117-81-7	Di(2-ethylhexyl)phthalate	6	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	117-81-7	Di(2-ethylhexyl)phthalate	0.006	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	53-70-3	Dibenzo(a,h)anthracene	0.038	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	53-70-3	Dibenzo(a,h)anthracene	0.000038	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	124-48-1	Dibromochloromethane	4	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	124-48-1	Dibromochloromethane	0.004	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	106-93-4	Dibromoethane	0.004	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	106-93-4	Dibromoethane	0.000004	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	75-27-4	Dichlorobromomethane	5.5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	75-27-4	Dichlorobromomethane	0.0055	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	75-71-8	Dichlorodifluoromethane	1000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	75-71-8	Dichlorodifluoromethane	1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	84-66-2	Diethylphthalate	17000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	84-66-2	Diethylphthalate	17	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	131-11-3	Dimethylphthalate	270000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	131-11-3	Dimethylphthalate	270	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	51-28-5	Dinitrophenol	69	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	51-28-5	Dinitrophenol	0.069	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Irrigation	88-85-7	Dinoseb	7	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Irrigation	88-85-7	Dinoseb	0.007	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	100-41-4	Ethylbenzene	530	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	100-41-4	Ethylbenzene	0.53	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	107-06-2	Ethylene dichloride	3.8	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	107-06-2	Ethylene dichloride	0.0038	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	206-44-0	Fluoranthene	130	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	206-44-0	Fluoranthene	0.13	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	86-73-7	Fluorene	1100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	86-73-7	Fluorene	1.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	118-74-1	Hexachlorobenzene	0.0028	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	118-74-1	Hexachlorobenzene	0.0000028	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	87-68-3	Hexachlorobutadiene	4.4	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	87-68-3	Hexachlorobutadiene	0.0044	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	77-47-4	Hexachlorocyclopentadiene	40	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	77-47-4	Hexachlorocyclopentadiene	0.04	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	67-72-1	Hexachloroethane	14	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	67-72-1	Hexachloroethane	0.014	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	193-39-5	Indeno(1,2,3-cd)- pyrene	0.038	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	193-39-5	Indeno(1,2,3-cd)- pyrene	0.000038	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	78-59-1	Isophorone	350	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	78-59-1	Isophorone	0.35	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	179601-23-1	m&p-Xylene	10000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	179601-23-1	m&p-Xylene	10	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	74-83-9	Methyl Bromide	47	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	74-83-9	Methyl Bromide	0.047	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	74-87-3	Methyl Chloride	30	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	74-87-3	Methyl Chloride	0.03	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	1634-04-4	Methyl tert-Butyl Ether	30	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	1634-04-4	Methyl tert-Butyl Ether	0.03	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	75-09-2	Methylene chloride	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	75-09-2	Methylene chloride	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	91-20-3	Naphthalene	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	91-20-3	Naphthalene	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	84-74-2	n-Butylphthalate	2000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	84-74-2	n-Butylphthalate	2	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	98-95-3	Nitrobenzene	17	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	98-95-3	Nitrobenzene	0.017	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	62-75-9	N-Nitrosodimethylamine	0.0069	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	62-75-9	N-Nitrosodimethylamine	0.0000069	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	621-64-7	N-Nitrosodi-n-propylamine	0.05	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	621-64-7	N-Nitrosodi-n-propylamine	0.00005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	86-30-6	N-Nitrosodiphenylamine	33	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	86-30-6	N-Nitrosodiphenylamine	0.033	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)

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water_Irrigation	95-47-6	o-Xylene	10000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	95-47-6	o-Xylene	10	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	87-86-5	Pentachlorophenol	1	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	87-86-5	Pentachlorophenol	0.001	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	108-95-2	Phenol	300	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	108-95-2	Phenol	0.3	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	78-87-5	Propylene dichloride	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	78-87-5	Propylene dichloride	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	129-00-0	Pyrene	830	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	129-00-0	Pyrene	0.83	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	100-42-5	Styrene	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	100-42-5	Styrene	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	79-34-5	Tetrachloroethane	1.7	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	79-34-5	Tetrachloroethane	0.0017	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	127-18-4	Tetrachloroethylene	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	127-18-4	Tetrachloroethylene	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	56-23-5	Tetrachloromethane	2.3	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	56-23-5	Tetrachloromethane	0.0023	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	108-88-3	Toluene	1000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	108-88-3	Toluene	1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	TEH	Total Extractable Hydrocarbons	1000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	TEH	Total Extractable Hydrocarbons	1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	TPHC	Total Purgeable Hydrocarbons	1000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	TPHC	Total Purgeable Hydrocarbons	1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	156-60-5	trans-1,2-Dichloroethylene	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	156-60-5	trans-1,2-Dichloroethylene	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	10061-02-6	trans-1,3-Dichloropropene	2	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	10061-02-6	trans-1,3-Dichloropropene	0.002	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	75-25-2	Tribromomethane	43	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	75-25-2	Tribromomethane	0.043	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	79-00-5	Trichloroethane	3	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	79-00-5	Trichloroethane	0.003	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	79-01-6	Trichloroethylene	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	79-01-6	Trichloroethylene	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	75-69-4	Trichlorofluoromethane	10000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	75-69-4	Trichlorofluoromethane	10	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	75-01-4	Vinyl Chloride	0.25	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	75-01-4	Vinyl Chloride	0.00025	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	1330-20-7	Xylene (total)	10000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
water_Irrigation	1330-20-7	Xylene (total)	10	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	630-20-6	1,1,1,2-Tetrachloroethane	0.52	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	630-20-6	1,1,1,2-Tetrachloroethane	0.00052	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	71-55-6	1,1,1-Trichloroethane	200	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	71-55-6	1,1,1-Trichloroethane	0.2	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	76-13-1	1,1,2-Trichlorotrifluoroethane	59000	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	76-13-1	1,1,2-Trichlorotrifluoroethane	59	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	75-34-3	1,1-Dichloroethane	2.4	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	75-34-3	1,1-Dichloroethane	0.0024	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	75-35-4	1,1-Dichloroethylene	0.6	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	75-35-4	1,1-Dichloroethylene	0.0006	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	87-61-6	1,2,3-Trichlorobenzene	29	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	87-61-6	1,2,3-Trichlorobenzene	0.029	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	96-18-4	1,2,3-Trichloropropane	0.00072	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	96-18-4	1,2,3-Trichloropropane	7.2E-07	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	526-73-8	1,2,3-Trimethylbenzene	10	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	526-73-8	1,2,3-Trimethylbenzene	0.01	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	120-82-1	1,2,4-Trichlorobenzene	70	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	120-82-1	1,2,4-Trichlorobenzene	0.07	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	95-63-6	1,2,4-Trimethylbenzene	15	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	95-63-6	1,2,4-Trimethylbenzene	0.015	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	96-12-8	1,2-Dibromo-3-chloropropane	0.2	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	96-12-8	1,2-Dibromo-3-chloropropane	0.0002	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	95-50-1	1,2-Dichlorobenzene	600	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	95-50-1	1,2-Dichlorobenzene	0.6	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	122-66-7	1,2-Diphenylhydrazine	0.36	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	122-66-7	1,2-Diphenylhydrazine	0.00036	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	108-67-8	1,3,5-Trimethylbenzene	370	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	108-67-8	1,3,5-Trimethylbenzene	0.37	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	541-73-1	1,3-Dichlorobenzene	600	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	541-73-1	1,3-Dichlorobenzene	0.6	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	142-28-9	1,3-Dichloropropane	730	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	142-28-9	1,3-Dichloropropane	0.73	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	106-46-7	1,4-Dichlorobenzene	75	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	106-46-7	1,4-Dichlorobenzene	0.075	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	90-12-0	1-Methylnaphthalene	2.3	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	90-12-0	1-Methylnaphthalene	0.0023	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	108-60-1	2,2'-oxybis(1- Chloropropane)	0.091	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	108-60-1	2,2'-oxybis(1- Chloropropane)	0.000091	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	95-95-4	2,4,5-Trichlorophenol	1800	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	95-95-4	2,4,5-Trichlorophenol	1.8	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	88-06-2	2,4,6-Trichlorophenol	30	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	88-06-2	2,4,6-Trichlorophenol	0.03	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	120-83-2	2,4-Dichlorophenol	77	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	120-83-2	2,4-Dichlorophenol	0.077	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	105-67-9	2,4-Dimethylphenol	380	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	105-67-9	2,4-Dimethylphenol	0.38	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	121-14-2	2,4-Dinitrotoluene	1.1	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	121-14-2	2,4-Dinitrotoluene	0.0011	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	606-20-2	2,6-Dinitrotoluene	0.5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	606-20-2	2,6-Dinitrotoluene	0.0005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	78-93-3	2-Butanone (MEK)	7100	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	78-93-3	2-Butanone (MEK)	7.1	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	91-58-7	2-Chloronaphthalene	1000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	91-58-7	2-Chloronaphthalene	1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)

Silvertip Incident
Environmental Sampling Screening Levels
August 25, 2011

Water_Drinking	95-57-8	2-Chlorophenol	81	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	95-57-8	2-Chlorophenol	0.081	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	95-49-8	2-Chlorotoluene	730	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	95-49-8	2-Chlorotoluene	0.73	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	591-78-6	2-Hexanone	47	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	591-78-6	2-Hexanone	0.047	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	91-57-6	2-Methylnaphthalene	150	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	91-57-6	2-Methylnaphthalene	0.15	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	95-48-7	2-Methylphenol(o-Cresol)	1800	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	95-48-7	2-Methylphenol(o-Cresol)	1.8	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	88-74-4	2-Nitroaniline	370	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	88-74-4	2-Nitroaniline	0.37	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	79-46-9	2-Nitropropane	0.0018	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	79-46-9	2-Nitropropane	0.0000018	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	108-39-4	3&4-Methylphenol	1800	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	108-39-4	3&4-Methylphenol	1.8	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	91-94-1	3,3'-Dichlorobenzidine	0.21	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	91-94-1	3,3'-Dichlorobenzidine	0.00021	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	534-52-1	4,6-Dinitro-2-methylphenol	13	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	534-52-1	4,6-Dinitro-2-methylphenol	0.013	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	59-50-7	4-Chloro-3-methylphenol	3000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	59-50-7	4-Chloro-3-methylphenol	3	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	106-47-8	4-Chloroaniline	0.34	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	106-47-8	4-Chloroaniline	0.00034	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	106-43-4	4-Chlorotoluene	730	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	106-43-4	4-Chlorotoluene	0.73	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	108-10-1	4-Methyl-2-pentanone (MIBK)	2000	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	108-10-1	4-Methyl-2-pentanone (MIBK)	2	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	100-01-6	4-Nitroaniline	3.4	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	100-01-6	4-Nitroaniline	0.0034	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	100-02-7	4-Nitrophenol	60	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	100-02-7	4-Nitrophenol	0.06	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	83-32-9	Acenaphthene	670	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	83-32-9	Acenaphthene	0.67	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	67-64-1	Acetone	22000	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	67-64-1	Acetone	22	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	107-13-1	Acrylonitrile	0.51	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	107-13-1	Acrylonitrile	0.00051	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	15972-60-8	Alachlor	2	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	15972-60-8	Alachlor	0.002	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	309-00-2	Aldrin	0.02	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	309-00-2	Aldrin	0.00002	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	AC5-8-A	Aliphatic (C05-C08).Adjusted	700	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	AC5-8-A	Aliphatic (C05-C08).Adjusted	0.7	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	AC5-8-U	Aliphatic (C05-C08).Unadjusted	700	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	AC5-8-U	Aliphatic (C05-C08).Unadjusted	0.7	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	AC9-12-A	Aliphatic (C09-C12).Adjusted	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	AC9-12-A	Aliphatic (C09-C12).Adjusted	1	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	AC9-12-U	Aliphatic (C09-C12).Unadjusted	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	AC9-12-U	Aliphatic (C09-C12).Unadjusted	1	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	AC9-18	Aliphatic (C09-C18)	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	AC9-18	Aliphatic (C09-C18)	1	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	AC19-36	Aliphatic (C19-C36)	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	AC19-36	Aliphatic (C19-C36)	1	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	107-05-1	Allyl chloride	0.65	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	107-05-1	Allyl chloride	0.00065	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	120-12-7	Anthracene	2100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	120-12-7	Anthracene	2.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	ARC9-10	Aromatic (C09-C10)	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	ARC9-10	Aromatic (C09-C10)	1	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	ARC11-22	Aromatic (C11-C22)	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	ARC11-22	Aromatic (C11-C22)	1	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	1912-24-9	Atrazine	3	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	1912-24-9	Atrazine	0.003	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	71-43-2	Benzene	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	71-43-2	Benzene	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	92-87-5	Benzidine	0.00086	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	92-87-5	Benzidine	8.6E-07	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	56-55-3	Benzo(a)anthracene	0.5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	56-55-3	Benzo(a)anthracene	0.0005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	50-32-8	Benzo(a)pyrene	0.05	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	50-32-8	Benzo(a)pyrene	0.00005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	205-99-2	Benzo(b)fluoranthene	0.5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	205-99-2	Benzo(b)fluoranthene	0.0005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	207-08-9	Benzo(k)fluoranthene	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	207-08-9	Benzo(k)fluoranthene	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	65-85-0	Benzoic acid	150000	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	65-85-0	Benzoic acid	150	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	100-51-6	Benzyl alcohol	3700	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	100-51-6	Benzyl alcohol	3.7	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	111-91-1	bis(2-Chloroethoxy)methane	110	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	111-91-1	bis(2-Chloroethoxy)methane	0.11	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	111-44-4	bis(2-Chloroethyl)ether	0.3	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	111-44-4	bis(2-Chloroethyl)ether	0.0003	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	103-23-1	bis(2-Ethylhexyl)adipate	300	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	103-23-1	bis(2-Ethylhexyl)adipate	0.3	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	117-81-7	Bis(2-ethylhexyl)phthalate (DEHP)	6	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	117-81-7	Bis(2-ethylhexyl)phthalate (DEHP)	0.006	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	108-86-1	Bromobenzene	88	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	108-86-1	Bromobenzene	0.088	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	74-97-5	Bromochloromethane	83	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	74-97-5	Bromochloromethane	0.083	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	85-68-7	Butylbenzylphthalate	1500	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	85-68-7	Butylbenzylphthalate	1.5	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)

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Water_Drinking	75-15-0	Carbon disulfide	1000	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	75-15-0	Carbon disulfide	1	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	56-23-5	Carbon Tetrachloride	3	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	56-23-5	Carbon Tetrachloride	0.003	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	57-74-9	Chlordane	1	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	57-74-9	Chlordane	0.001	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	108-90-7	Chlorobenzene	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	108-90-7	Chlorobenzene	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	75-00-3	Chloroethane	21000	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	75-00-3	Chloroethane	21	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	67-66-3	Chloroform	70	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	67-66-3	Chloroform	0.07	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	218-01-9	Chrysene	50	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	218-01-9	Chrysene	0.05	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	156-59-2	cis-1,2-Dichloroethylene	70	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	156-59-2	cis-1,2-Dichloroethylene	0.07	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	10061-01-5	cis-1,3-Dichloropropene	4	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	10061-01-5	cis-1,3-Dichloropropene	0.004	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	53-70-3	Dibenzo(a,h)anthracene	0.05	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	53-70-3	Dibenzo(a,h)anthracene	0.00005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	132-64-9	Dibenzofuran	37	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	132-64-9	Dibenzofuran	0.037	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	124-48-1	Dibromochloromethane	4	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	124-48-1	Dibromochloromethane	0.004	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	106-93-4	Dibromoethane	0.004	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	106-93-4	Dibromoethane	0.000004	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	74-95-3	Dibromomethane	8.2	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	74-95-3	Dibromomethane	0.0082	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	75-27-4	Dichlorobromomethane	10	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	75-27-4	Dichlorobromomethane	0.01	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	75-71-8	Dichlorodifluoromethane	1000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	75-71-8	Dichlorodifluoromethane	1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	107-06-2	Dichloroethane, 1,2- (1,2-DCE) (EDC or DCA) (Ethylene dichloride)	4	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	107-06-2	Dichloroethane, 1,2- (1,2-DCE) (EDC or DCA) (Ethylene dichloride)	0.004	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	156-60-5	Dichloroethene, trans-1,2- (trans-1,2-Dichloroethylene)	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	156-60-5	Dichloroethene, trans-1,2- (trans-1,2-Dichloroethylene)	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	78-87-5	Dichloropropane, 1,2-	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	78-87-5	Dichloropropane, 1,2-	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	60-57-1	Dieldrin	0.02	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	60-57-1	Dieldrin	0.00002	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	60-29-7	Diethyl ether (Ethyl ether)	7300	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	60-29-7	Diethyl ether (Ethyl ether)	7.3	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	84-66-2	Diethylphthalate	17000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	84-66-2	Diethylphthalate	17	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	131-11-3	Dimethylphthalate	270000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	131-11-3	Dimethylphthalate	270	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	51-28-5	Dinitrophenol	69	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	51-28-5	Dinitrophenol	0.069	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	72-20-8	Endrin	2	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	72-20-8	Endrin	0.002	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	97-63-2	Ethyl methacrylate	530	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	97-63-2	Ethyl methacrylate	0.53	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	100-41-4	Ethylbenzene	700	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	100-41-4	Ethylbenzene	0.7	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	206-44-0	Fluoranthene	130	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	206-44-0	Fluoranthene	0.13	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	86-73-7	Fluorene	1100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	86-73-7	Fluorene	1.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	58-89-9	gamma-BHC (Lindane)	0.2	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	58-89-9	gamma-BHC (Lindane)	0.0002	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	76-44-8	Heptachlor	0.08	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	76-44-8	Heptachlor	0.00008	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	1024-57-3	Heptachlor epoxide	0.04	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	1024-57-3	Heptachlor epoxide	0.00004	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	118-74-1	Hexachlorobenzene	0.2	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	118-74-1	Hexachlorobenzene	0.0002	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	87-68-3	Hexachlorobutadiene	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	87-68-3	Hexachlorobutadiene	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	77-47-4	Hexachlorocyclopentadiene	50	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	77-47-4	Hexachlorocyclopentadiene	0.05	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	67-72-1	Hexachloroethane	30	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	67-72-1	Hexachloroethane	0.03	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	193-39-5	Indeno(1,2,3-cd)- pyrene	0.5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	193-39-5	Indeno(1,2,3-cd)- pyrene	0.0005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	78-59-1	Isophorone	400	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	78-59-1	Isophorone	0.4	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	98-82-8	Isopropylbenzene	680	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	98-82-8	Isopropylbenzene	0.68	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	179601-23-1	m&p-Xylene	10000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	179601-23-1	m&p-Xylene	10	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	72-43-5	Methoxychlor	40	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	72-43-5	Methoxychlor	0.04	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	74-83-9	Methyl Bromide	10	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	74-83-9	Methyl Bromide	0.01	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	74-87-3	Methyl Chloride	30	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	74-87-3	Methyl Chloride	0.03	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	80-62-6	Methyl methacrylate	1400	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	80-62-6	Methyl methacrylate	1.4	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	1634-04-4	Methyl tert-Butyl Ether	30	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	1634-04-4	Methyl tert-Butyl Ether	0.03	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)

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Water_Drinking	75-09-2	Methylene chloride	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	75-09-2	Methylene chloride	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	51218-45-2	Metolachlor	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	51218-45-2	Metolachlor	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	21087-64-9	Metribuzin	200	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	21087-64-9	Metribuzin	0.2	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	2212-67-1	Molinate	73	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	2212-67-1	Molinate	0.073	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	91-20-3	Naphthalene	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	91-20-3	Naphthalene	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	84-74-2	n-Butylphthalate	2000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	84-74-2	n-Butylphthalate	2	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	98-95-3	Nitrobenzene	17	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	98-95-3	Nitrobenzene	0.017	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	62-75-9	N-Nitrosodimethylamine	0.0069	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	62-75-9	N-Nitrosodimethylamine	0.0000069	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	621-64-7	N-Nitrosodi-n-propylamine	0.05	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	621-64-7	N-Nitrosodi-n-propylamine	0.00005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	86-30-6	N-Nitrosodiphenylamine	33	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	86-30-6	N-Nitrosodiphenylamine	0.033	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	103-65-1	n-Propylbenzene	1300	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	103-65-1	n-Propylbenzene	1.3	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	95-47-6	o-Xylene	10000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	95-47-6	o-Xylene	10	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	87-86-5	Pentachlorophenol	1	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	87-86-5	Pentachlorophenol	0.001	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	108-95-2	Phenol	300	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	108-95-2	Phenol	0.3	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	1918-16-7	Propachlor	90	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	1918-16-7	Propachlor	0.09	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	129-00-0	Pyrene	830	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	129-00-0	Pyrene	0.83	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	110-86-1	Pyridine	37	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	110-86-1	Pyridine	0.037	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	122-34-9	Simazine	4	ug/L	USEPA Regional Screening Level Table - MCL
Water_Drinking	122-34-9	Simazine	0.004	mg/L	USEPA Regional Screening Level Table - MCL
Water_Drinking	100-42-5	Styrene	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	100-42-5	Styrene	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	79-34-5	Tetrachloroethane	2	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	79-34-5	Tetrachloroethane	0.002	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	127-18-4	Tetrachloroethylene	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	127-18-4	Tetrachloroethylene	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	28249-77-6	Thiobencarb	370	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	28249-77-6	Thiobencarb	0.37	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	108-88-3	Toluene	1000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	108-88-3	Toluene	1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	TEH	Total Extractable Hydrocarbons	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	TEH	Total Extractable Hydrocarbons	1	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	TPHC	Total Purgeable Hydrocarbons	1000	ug/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	TPHC	Total Purgeable Hydrocarbons	1	mg/L	MDEQ Tier 1 Groundwater RBSL
Water_Drinking	TTH-Meth-Calc	Total Trihalomethanes (Calc.)	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	TTH-Meth-Calc	Total Trihalomethanes (Calc.)	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	8001-35-2	Toxaphene	0.3	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	8001-35-2	Toxaphene	0.0003	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	10061-02-6	trans-1,3-Dichloropropene	2	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	10061-02-6	trans-1,3-Dichloropropene	0.002	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	110-57-6	trans-1,4-Dichloro-2-butene	0.0012	ug/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	110-57-6	trans-1,4-Dichloro-2-butene	0.0000012	mg/L	USEPA Regional Screening Level Table - Tapwater
Water_Drinking	39765-80-5	trans-Nonachlor	1	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	39765-80-5	trans-Nonachlor	0.001	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	75-25-2	Tribromomethane	80	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	75-25-2	Tribromomethane	0.08	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	79-00-5	Trichloroethane	3	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	79-00-5	Trichloroethane	0.003	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	79-01-6	Trichloroethylene	5	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	79-01-6	Trichloroethylene	0.005	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	75-69-4	Trichlorofluoromethane	10000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	75-69-4	Trichlorofluoromethane	10	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	THM-T	Trihalomethanes, Total	100	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	THM-T	Trihalomethanes, Total	0.1	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	75-01-4	Vinyl Chloride	0.2	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	75-01-4	Vinyl Chloride	0.0002	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	1330-20-7	Xylene (Total)	10000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	1330-20-7	Xylene (Total)	10	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	106-42-3	Xylene, p-	10000	ug/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Water_Drinking	106-42-3	Xylene, p-	10	mg/L	Circular DEQ-7 Montana Numeric Water Quality Standard for Groundwater (Human Health)
Soil_Surface	106-93-4	1, 2-Dibromoethane (EDB)	0.02	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	106-93-4	1, 2-Dibromoethane (EDB)	0.00002	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	630-20-6	1,1,1,2-Tetrachloroethane	1900	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	630-20-6	1,1,1,2-Tetrachloroethane	1.9	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	71-55-6	1,1,1-Trichloroethane	8700000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	71-55-6	1,1,1-Trichloroethane	8700	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	76-13-1	1,1,2-Trichlorotrifluoroethane	43000000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	76-13-1	1,1,2-Trichlorotrifluoroethane	43000	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	75-34-3	1,1-Dichloroethane	3300	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	75-34-3	1,1-Dichloroethane	3.3	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	75-35-4	1,1-Dichloroethylene	240000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	75-35-4	1,1-Dichloroethylene	240	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	87-61-6	1,2,3-Trichlorobenzene	49000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	87-61-6	1,2,3-Trichlorobenzene	49	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	96-18-4	1,2,3-Trichloropropane	5	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	96-18-4	1,2,3-Trichloropropane	0.005	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	120-82-1	1,2,4-Trichlorobenzene	22000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	120-82-1	1,2,4-Trichlorobenzene	22	mg/kg	USEPA Regional Screening Level Table - Residential Soil

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Soil_Surface	95-63-6	1,2,4-Trimethylbenzene	62000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	95-63-6	1,2,4-Trimethylbenzene	62	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	96-12-8	1,2-Dibromo-3-chloropropane	5.4	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	96-12-8	1,2-Dibromo-3-chloropropane	0.0054	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	95-50-1	1,2-Dichlorobenzene	1900000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	95-50-1	1,2-Dichlorobenzene	1900	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	107-06-2	1,2-Dichloroethane (DCA)	10	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	107-06-2	1,2-Dichloroethane (DCA)	0.01	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	122-66-7	1,2-Diphenylhydrazine	610	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	122-66-7	1,2-Diphenylhydrazine	0.61	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	108-67-8	1,3,5-Trimethylbenzene	780000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	108-67-8	1,3,5-Trimethylbenzene	780	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	142-28-9	1,3-Dichloropropane	1600000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	142-28-9	1,3-Dichloropropane	1600	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	106-46-7	1,4-Dichlorobenzene	2400	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	106-46-7	1,4-Dichlorobenzene	2.4	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	90-12-0	1-Methylnaphthalene	22000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	90-12-0	1-Methylnaphthalene	22	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	95-95-4	2,4,5-Trichlorophenol	6100000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	95-95-4	2,4,5-Trichlorophenol	6100	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	88-06-2	2,4,6-Trichlorophenol	44000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	88-06-2	2,4,6-Trichlorophenol	44	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	120-83-2	2,4-Dichlorophenol	180000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	120-83-2	2,4-Dichlorophenol	180	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	105-67-9	2,4-Dimethylphenol	1200000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	105-67-9	2,4-Dimethylphenol	1200	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	121-14-2	2,4-Dinitrotoluene	1600	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	121-14-2	2,4-Dinitrotoluene	1.6	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	606-20-2	2,6-Dinitrotoluene	61000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	606-20-2	2,6-Dinitrotoluene	61	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	78-93-3	2-Butanone (MEK)	28000000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	78-93-3	2-Butanone (MEK)	28000	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	91-58-7	2-Chloronaphthalene	6300000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	91-58-7	2-Chloronaphthalene	6300	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	95-57-8	2-Chlorophenol	390000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	95-57-8	2-Chlorophenol	390	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	95-49-8	2-Chlorotoluene	1600000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	95-49-8	2-Chlorotoluene	1600	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	91-57-6	2-Methylnaphthalene	310000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	91-57-6	2-Methylnaphthalene	310	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	95-48-7	2-Methylphenol(o-Cresol)	3100000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	95-48-7	2-Methylphenol(o-Cresol)	3100	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	88-74-4	2-Nitroaniline	610000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	88-74-4	2-Nitroaniline	610	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	108-39-4	3&4-Methylphenol	3100000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	108-39-4	3&4-Methylphenol	3100	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	91-94-1	3,3'-Dichlorobenzidine	1100	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	91-94-1	3,3'-Dichlorobenzidine	1.1	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	534-52-1	4,6-Dinitro-2-methylphenol	4900	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	534-52-1	4,6-Dinitro-2-methylphenol	4.9	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	59-50-7	4-Chloro-3-methylphenol	6100000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	59-50-7	4-Chloro-3-methylphenol	6100	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	106-47-8	4-Chloroaniline	2400	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	106-47-8	4-Chloroaniline	2.4	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	106-43-4	4-Chlorotoluene	1600000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	106-43-4	4-Chlorotoluene	1600	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	108-10-1	4-Methyl-2-pentanone (MIBK)	5300000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	108-10-1	4-Methyl-2-pentanone (MIBK)	5300	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	100-01-6	4-Nitroaniline	24000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	100-01-6	4-Nitroaniline	24	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	83-32-9	Acenaphthene	200000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	83-32-9	Acenaphthene	200	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	67-64-1	Acetone	61000000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	67-64-1	Acetone	61000	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	AC5-8-A	Aliphatic (C05-C08).Adjusted	60000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	AC5-8-A	Aliphatic (C05-C08).Adjusted	60	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	AC5-8-U	Aliphatic (C05-C08).Unadjusted	60000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	AC5-8-U	Aliphatic (C05-C08).Unadjusted	60	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	AC9-12-A	Aliphatic (C09-C12).Adjusted	100000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	AC9-12-A	Aliphatic (C09-C12).Adjusted	100	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	AC9-12-U	Aliphatic (C09-C12).Unadjusted	100000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	AC9-12-U	Aliphatic (C09-C12).Unadjusted	100	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	AC9-18	Aliphatic (C09-C18)	200000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	AC9-18	Aliphatic (C09-C18)	200	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	AC19-36	Aliphatic (C19-C36)	20000000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	AC19-36	Aliphatic (C19-C36)	20000	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	107-05-1	Allyl chloride	680	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	107-05-1	Allyl chloride	0.68	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	120-12-7	Anthracene	2000000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	120-12-7	Anthracene	2000	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	ARC9-10	Aromatic (C09-C10)	100000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	ARC9-10	Aromatic (C09-C10)	100	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	ARC11-22	Aromatic (C11-C22)	400000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	ARC11-22	Aromatic (C11-C22)	400	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	7440-38-2	Arsenic	40000	ug/kg	MDEQ Tier 1 RBCA Guidance for Petroleum Releases Table D
Soil_Surface	7440-38-2	Arsenic	40	mg/kg	MDEQ Tier 1 RBCA Guidance for Petroleum Releases Table D
Soil_Surface	7440-39-3	Barium	820000	ug/kg	MDEQ Tier 1 RBCA Guidance for Petroleum Releases Table D
Soil_Surface	7440-39-3	Barium	820	mg/kg	MDEQ Tier 1 RBCA Guidance for Petroleum Releases Table D
Soil_Surface	56-55-3	Benz(a)anthracene	200	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	56-55-3	Benz(a)anthracene	0.2	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	71-43-2	Benzene	40	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	71-43-2	Benzene	0.04	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	50-32-8	Benzo(a)pyrene	20	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	50-32-8	Benzo(a)pyrene	0.02	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)

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Soil_Surface	205-99-2	Benzo(b)fluoranthene	200	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	205-99-2	Benzo(b)fluoranthene	0.2	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	207-08-9	Benzo(k)fluoranthene	2000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	207-08-9	Benzo(k)fluoranthene	2	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	111-91-1	bis(2-Chloroethoxy)methane	180000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	111-91-1	bis(2-Chloroethoxy)methane	180	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	111-44-4	bis(2-Chloroethyl)ether	210	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	111-44-4	bis(2-Chloroethyl)ether	0.21	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	108-60-1	bis(2-Chloroisopropyl) ether	4600	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	108-60-1	bis(2-Chloroisopropyl) ether	4.6	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	108-86-1	Bromobenzene	300000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	108-86-1	Bromobenzene	300	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	74-97-5	Bromochloromethane	160000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	74-97-5	Bromochloromethane	160	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	85-68-7	Butylbenzylphthalate	260000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	85-68-7	Butylbenzylphthalate	260	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	7440-43-9	Cadmium	3800	ug/kg	MDEQ Tier 1 RBCA Guidance for Petroleum Releases Table D
Soil_Surface	7440-43-9	Cadmium	3.8	mg/kg	MDEQ Tier 1 RBCA Guidance for Petroleum Releases Table D
Soil_Surface	108-90-7	Chlorobenzene	290000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	108-90-7	Chlorobenzene	290	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	75-00-3	Chloroethane	15000000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	75-00-3	Chloroethane	15000	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	67-66-3	Chloroform	290	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	67-66-3	Chloroform	0.29	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	7440-47-3	Chromium	280000	ug/kg	MDEQ Tier 1 RBCA Guidance for Petroleum Releases Table D
Soil_Surface	7440-47-3	Chromium	280	mg/kg	MDEQ Tier 1 RBCA Guidance for Petroleum Releases Table D
Soil_Surface	218-01-9	Chrysene	20000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	218-01-9	Chrysene	20	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	156-59-2	cis-1,2-Dichloroethylene	160000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	156-59-2	cis-1,2-Dichloroethylene	160	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	117-81-7	Di(2-ethylhexyl)phthalate	35000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	117-81-7	Di(2-ethylhexyl)phthalate	35	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	53-70-3	Dibenzo(a,h)anthracene	20	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	53-70-3	Dibenzo(a,h)anthracene	0.02	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	132-64-9	Dibenzofuran	78000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	132-64-9	Dibenzofuran	78	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	124-48-1	Dibromochloromethane	680	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	124-48-1	Dibromochloromethane	0.68	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	74-95-3	Dibromomethane	25000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	74-95-3	Dibromomethane	25	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	75-27-4	Dichlorobromomethane	270	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	75-27-4	Dichlorobromomethane	0.27	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	75-71-8	Dichlorodifluoromethane	94000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	75-71-8	Dichlorodifluoromethane	94	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	60-29-7	Diethyl ether (Ethyl ether)	16000000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	60-29-7	Diethyl ether (Ethyl ether)	16000	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	84-66-2	Diethylphthalate	49000000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	84-66-2	Diethylphthalate	49000	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	51-28-5	Dinitrophenol	120000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	51-28-5	Dinitrophenol	120	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	100-41-4	Ethylbenzene	6000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	100-41-4	Ethylbenzene	6	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	206-44-0	Fluoranthene	300000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	206-44-0	Fluoranthene	300	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	86-73-7	Fluorene	300000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	86-73-7	Fluorene	300	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	118-74-1	Hexachlorobenzene	300	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	118-74-1	Hexachlorobenzene	0.3	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	87-68-3	Hexachlorobutadiene	6200	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	87-68-3	Hexachlorobutadiene	6.2	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	77-47-4	Hexachlorocyclopentadiene	370000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	77-47-4	Hexachlorocyclopentadiene	370	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	67-72-1	Hexachloroethane	35000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	67-72-1	Hexachloroethane	35	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	193-39-5	Indeno(1,2,3-cd)pyrene	200	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	193-39-5	Indeno(1,2,3-cd)pyrene	0.2	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	78-59-1	Isophorone	510000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	78-59-1	Isophorone	510	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	98-82-8	Isopropylbenzene (Cumene)	2100000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	98-82-8	Isopropylbenzene (Cumene)	2100	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	7439-92-1	Lead	400000	ug/kg	MDEQ Tier 1 RBCA Guidance for Petroleum Releases Table D
Soil_Surface	7439-92-1	Lead	400	mg/kg	MDEQ Tier 1 RBCA Guidance for Petroleum Releases Table D
Soil_Surface	179601-23-1	m&p-Xylene	70000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	179601-23-1	m&p-Xylene	70	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	7439-97-6	Mercury	1000	ug/kg	MDEQ Tier 1 RBCA Guidance for Petroleum Releases Table D
Soil_Surface	7439-97-6	Mercury	1	mg/kg	MDEQ Tier 1 RBCA Guidance for Petroleum Releases Table D
Soil_Surface	74-83-9	Methyl Bromide	7300	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	74-83-9	Methyl Bromide	7.3	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	74-87-3	Methyl Chloride	120000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	74-87-3	Methyl Chloride	120	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	1634-04-4	Methyl tert-Butyl Ether	80	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	1634-04-4	Methyl tert-Butyl Ether	0.08	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	75-09-2	Methylene chloride	11000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	75-09-2	Methylene chloride	11	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	91-20-3	Naphthalene	4000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	91-20-3	Naphthalene	4	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	104-51-8	n-Butylbenzene	3900000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	104-51-8	n-Butylbenzene	3900	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	84-74-2	n-Butylphthalate	6100000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	84-74-2	n-Butylphthalate	6100	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	7440-02-0	Nickel	150000	ug/kg	USEPA Regional Screening Level Table - Residential Soil divided by 10
Soil_Surface	7440-02-0	Nickel	150	mg/kg	USEPA Regional Screening Level Table - Residential Soil divided by 10
Soil_Surface	98-95-3	Nitrobenzene	4800	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	98-95-3	Nitrobenzene	4.8	mg/kg	USEPA Regional Screening Level Table - Residential Soil

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Soil_Surface	62-75-9	N-Nitrosodimethylamine	2.3	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	62-75-9	N-Nitrosodimethylamine	0.0023	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	621-64-7	N-Nitrosodi-n-propylamine	69	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	621-64-7	N-Nitrosodi-n-propylamine	0.069	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	86-30-6	N-Nitrosodiphenylamine	99000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	86-30-6	N-Nitrosodiphenylamine	99	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	103-65-1	n-Propylbenzene	3400000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	103-65-1	n-Propylbenzene	3400	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	95-47-6	o-Xylene	70000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	95-47-6	o-Xylene	70	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	87-86-5	Pentachlorophenol	890	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	87-86-5	Pentachlorophenol	0.89	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	108-95-2	Phenol	18000000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	108-95-2	Phenol	18000	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	78-87-5	Propylene dichloride	940	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	78-87-5	Propylene dichloride	0.94	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	129-00-0	Pyrene	200000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	129-00-0	Pyrene	200	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	7782-49-2	Selenium	2600	ug/kg	MDEQ Tier 1 RBCA Guidance for Petroleum Releases Table D
Soil_Surface	7782-49-2	Selenium	2.6	mg/kg	MDEQ Tier 1 RBCA Guidance for Petroleum Releases Table D
Soil_Surface	7440-22-4	Silver	8900	ug/kg	MDEQ Tier 1 RBCA Guidance for Petroleum Releases Table D
Soil_Surface	7440-22-4	Silver	8.9	mg/kg	MDEQ Tier 1 RBCA Guidance for Petroleum Releases Table D
Soil_Surface	100-42-5	Styrene	6300000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	100-42-5	Styrene	6300	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	79-34-5	Tetrachloroethane	560	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	79-34-5	Tetrachloroethane	0.56	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	127-18-4	Tetrachloroethylene	550	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	127-18-4	Tetrachloroethylene	0.55	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	56-23-5	Tetrachloromethane	610	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	56-23-5	Tetrachloromethane	0.61	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	108-88-3	Toluene	10000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	108-88-3	Toluene	10	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	TEH	Total Extractable Hydrocarbons	200000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	TEH	Total Extractable Hydrocarbons	200	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	TPHC	Total Purgeable Hydro Carbons	200000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	TPHC	Total Purgeable Hydro Carbons	200	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	156-60-5	trans-1,2-Dichloroethylene	150000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	156-60-5	trans-1,2-Dichloroethylene	150	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	75-25-2	Tribromomethane	62000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	75-25-2	Tribromomethane	62	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	79-00-5	Trichloroethane	1100	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	79-00-5	Trichloroethane	1.1	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	79-01-6	Trichloroethylene	2800	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	79-01-6	Trichloroethylene	2.8	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	75-69-4	Trichlorofluoromethane	790000	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	75-69-4	Trichlorofluoromethane	790	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	7440-62-2	Vanadium	39000	ug/kg	USEPA Regional Screening Level Table - Residential Soil divided by 10
Soil_Surface	7440-62-2	Vanadium	39	mg/kg	USEPA Regional Screening Level Table - Residential Soil divided by 10
Soil_Surface	75-01-4	Vinyl Chloride	60	ug/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	75-01-4	Vinyl Chloride	0.06	mg/kg	USEPA Regional Screening Level Table - Residential Soil
Soil_Surface	1330-20-7	Xylene (total)	70000	ug/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Soil_Surface	1330-20-7	Xylene (total)	70	mg/kg	MDEQ Tier 1 Surface Soil RBSLs (<10 feet to groundwater)
Sediment	71-55-6	1,1,1-Trichloroethane	30.2	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	71-55-6	1,1,1-Trichloroethane	0.0302	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	79-34-5	1,1,2,2-Tetrachloroethane	1360	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	79-34-5	1,1,2,2-Tetrachloroethane	1.36	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	127-18-4	1,1,2,2-Tetrachloroethylene (PCE)	468	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	127-18-4	1,1,2,2-Tetrachloroethylene (PCE)	0.468	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	79-00-5	1,1,2-Trichloroethane	1240	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	79-00-5	1,1,2-Trichloroethane	1.24	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	31	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.031	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	120-82-1	1,2,4-Trichlorobenzene	2100	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	120-82-1	1,2,4-Trichlorobenzene	2.1	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	95-50-1	1,2-Dichlorobenzene	16.5	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	95-50-1	1,2-Dichlorobenzene	0.0165	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	156-60-5	1,2-Trans-Dichloroethylene	1050	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	156-60-5	1,2-Trans-Dichloroethylene	1.05	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	541-73-1	1,3-Dichlorobenzene	4430	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	541-73-1	1,3-Dichlorobenzene	4.43	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	106-46-7	1,4-Dichlorobenzene	599	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	106-46-7	1,4-Dichlorobenzene	0.599	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	88-06-2	2,4,6-Trichlorophenol	213	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	88-06-2	2,4,6-Trichlorophenol	0.213	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	120-83-2	2,4-Dichlorophenol	117	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	120-83-2	2,4-Dichlorophenol	0.117	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	105-67-9	2,4-Dimethylphenol	29	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	105-67-9	2,4-Dimethylphenol	0.029	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	121-14-2	2,4-Dinitrotoluene	41.6	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	121-14-2	2,4-Dinitrotoluene	0.0416	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	95-57-8	2-Chlorophenol	31.2	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	95-57-8	2-Chlorophenol	0.0312	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	91-94-1	3,3'- Dichlorobenzidine	127	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	91-94-1	3,3'- Dichlorobenzidine	0.127	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	83-32-9	Acenaphthene	6.7	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	83-32-9	Acenaphthene	0.0067	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	120-12-7	Anthracene	57.2	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	120-12-7	Anthracene	0.0572	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	56-55-3	Benzo(a)anthracene	108	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	56-55-3	Benzo(a)anthracene	0.108	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	50-32-8	Benzo(a)pyrene	150	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	50-32-8	Benzo(a)pyrene	0.15	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	207-08-9	Benzo(k)fluoranthene	240	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	207-08-9	Benzo(k)fluoranthene	0.24	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment

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Sediment	117-81-7	bis (2-ethylhexyl) phthalate	180	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	117-81-7	bis (2-ethylhexyl) phthalate	0.18	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	85-68-7	Butyl benzyl phthalate	10900	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	85-68-7	Butyl benzyl phthalate	10.9	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	218-01-9	Chrysene	166	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	218-01-9	Chrysene	0.166	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	53-70-3	Dibenzo(a,h)anthracene	33	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	53-70-3	Dibenzo(a,h)anthracene	0.033	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	84-66-2	Diethylphthalate	603	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	84-66-2	Diethylphthalate	0.603	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	100-41-4	Ethylbenzene	1100	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	100-41-4	Ethylbenzene	1.1	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	206-44-0	Fluoranthene	423	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	206-44-0	Fluoranthene	0.423	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	86-73-7	Fluorene	77.4	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	86-73-7	Fluorene	0.0774	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	118-74-1	Hexachlorobenzene	20	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	118-74-1	Hexachlorobenzene	0.02	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	67-72-1	Hexachloroethane	1027	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	67-72-1	Hexachloroethane	1.027	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	193-39-5	Indeno(1,2,3-c,d)pyrene	17	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	193-39-5	Indeno(1,2,3-c,d)pyrene	0.017	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	108-90-7	Monochlorobenzene (Chlorobenzene)	8.42	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	108-90-7	Monochlorobenzene (Chlorobenzene)	0.00842	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	91-20-3	Naphthalene	176	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	91-20-3	Naphthalene	0.176	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	84-74-2	n-Butylphthalate (Di-n-butyl phthalate)	6470	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	84-74-2	n-Butylphthalate (Di-n-butyl phthalate)	6.47	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	86-30-6	N-Nitrosodiphenylamine	2680	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	86-30-6	N-Nitrosodiphenylamine	2.68	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	87-86-5	Pentachlorophenol	504	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	87-86-5	Pentachlorophenol	0.504	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	108-95-2	Phenol	420	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	108-95-2	Phenol	0.42	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	100-42-5	Phenylethylene	559	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	100-42-5	Phenylethylene	0.559	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	129-00-0	Pyrene	195	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	129-00-0	Pyrene	0.195	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	56-23-5	Tetrachloromethane (Carbon tetrachloride)	64.2	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	56-23-5	Tetrachloromethane (Carbon tetrachloride)	0.0642	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	75-25-2	Tribromomethane (Bromoform)	654	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	75-25-2	Tribromomethane (Bromoform)	0.654	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	79-01-6	Trichloroethene (Trichloroethylene)	96.9	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	79-01-6	Trichloroethene (Trichloroethylene)	0.0969	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	87-61-6	1,2,3-Trichlorobenzene	858	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	87-61-6	1,2,3-Trichlorobenzene	0.858	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	91-57-6	2-Methylnaphthalene	20.2	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	91-57-6	2-Methylnaphthalene	0.0202	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	101-55-3	4-Bromophenylphenyl ether	1230	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	101-55-3	4-Bromophenylphenyl ether	1.23	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	208-96-8	Acenaphthylene	5.9	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	208-96-8	Acenaphthylene	0.0059	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	191-24-2	Benzo(g,h,i)perylene	170	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	191-24-2	Benzo(g,h,i)perylene	0.17	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	132-64-9	Dibenzofuran	415	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	132-64-9	Dibenzofuran	0.415	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	98-82-8	Isopropylbenzene (Cumene)	86	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	98-82-8	Isopropylbenzene (Cumene)	0.086	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	179601-23-1	m&p-Xylene	25.2	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	179601-23-1	m&p-Xylene	0.0252	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	95-47-6	o-Xylene	25.2	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	95-47-6	o-Xylene	0.0252	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	85-01-8	Phenanthrene	204	ug/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Sediment	85-01-8	Phenanthrene	0.204	mg/kg	USEPA Region 3 BTAG EPA Freshwater Screening Benchmark - Sediment
Air_Outdoor	71-55-6	1,1,1-Trichloroethane	5200	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	71-55-6	1,1,1-Trichloroethane	5.2	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	76-13-1	1,1,2-Trichloro-1,2,2-trifluroethane	31000	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	76-13-1	1,1,2-Trichloro-1,2,2-trifluroethane	31	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-34-3	1,1-Dichloroethane	1.5	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-34-3	1,1-Dichloroethane	0.0015	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-35-4	1,1-Dichloroethylene	210	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-35-4	1,1-Dichloroethylene	0.21	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	120-82-1	1,2,4-Trichlorobenzene	2.1	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	120-82-1	1,2,4-Trichlorobenzene	0.0021	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	95-63-6	1,2,4-Trimethylbenzene	7.3	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	95-63-6	1,2,4-Trimethylbenzene	0.0073	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	95-50-1	1,2-Dichlorobenzene	210	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	95-50-1	1,2-Dichlorobenzene	0.21	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	106-99-0	1,3-Butadiene	0.09	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	106-99-0	1,3-Butadiene	0.00009	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	542-75-6	1,3-Dichloropropene	610	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	542-75-6	1,3-Dichloropropene	0.61	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	106-46-7	1,4-Dichlorobenzene	0.22	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	106-46-7	1,4-Dichlorobenzene	0.00022	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	591-78-6	2-Hexanone	31	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	591-78-6	2-Hexanone	0.031	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	67-63-0	2-Propanol	7300	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	67-63-0	2-Propanol	7.3	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	67-64-1	Acetone	32000	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	67-64-1	Acetone	32	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	AC5-8-U	Aliphatic (C05-C08).Unadjusted	73	ug/m3	MDEQ APH VI Screening Level
Air_Outdoor	AC5-8-U	Aliphatic (C05-C08).Unadjusted	0.073	mg/m3	MDEQ APH VI Screening Level
Air_Outdoor	AC9-12	Aliphatic (C09-C12)	20.9	ug/m3	MDEQ APH VI Screening Level
Air_Outdoor	AC9-12	Aliphatic (C09-C12)	0.0209	mg/m3	MDEQ APH VI Screening Level

Silvertip Incident
Environmental Sampling Screening Levels
August 25, 2011

Air_Outdoor	ARC9-10	Aromatic (C09-C10)	5.2	ug/m3	MDEQ APH VI Screening Level
Air_Outdoor	ARC9-10	Aromatic (C09-C10)	0.0052	mg/m3	MDEQ APH VI Screening Level
Air_Outdoor	71-43-2	Benzene	0.33	ug/m3	MDEQ APH VI Screening Level
Air_Outdoor	71-43-2	Benzene	0.00033	mg/m3	MDEQ APH VI Screening Level
Air_Outdoor	100-44-7	Benzyl Chloride	0.05	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	100-44-7	Benzyl Chloride	0.00005	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-15-0	Carbon Disulfide	730	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-15-0	Carbon Disulfide	0.73	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	108-90-7	Chlorobenzene, total	52	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	108-90-7	Chlorobenzene, total	0.052	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-00-3	Chloroethane	10000	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-00-3	Chloroethane	10	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	67-66-3	Chloroform	0.11	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	67-66-3	Chloroform	0.00011	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	110-82-7	Cyclohexane	6300	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	110-82-7	Cyclohexane	6.3	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	124-48-1	Dibromochloromethane	0.09	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	124-48-1	Dibromochloromethane	0.00009	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	106-93-4	Dibromoethane	0.004	ug/m3	MDEQ APH VI Screening Level
Air_Outdoor	106-93-4	Dibromoethane	0.000004	mg/m3	MDEQ APH VI Screening Level
Air_Outdoor	75-27-4	Dichlorobromomethane	0.066	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-27-4	Dichlorobromomethane	0.000066	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-71-8	Dichlorodifluoromethane	100	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-71-8	Dichlorodifluoromethane	0.1	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	100-41-4	Ethylbenzene	1.04	ug/m3	MDEQ APH VI Screening Level
Air_Outdoor	100-41-4	Ethylbenzene	0.00104	mg/m3	MDEQ APH VI Screening Level
Air_Outdoor	107-06-2	Ethylene dichloride	0.1	ug/m3	MDEQ APH VI Screening Level
Air_Outdoor	107-06-2	Ethylene dichloride	0.0001	mg/m3	MDEQ APH VI Screening Level
Air_Outdoor	87-68-3	Hexachlorobutadiene	0.11	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	87-68-3	Hexachlorobutadiene	0.00011	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	7783-06-4	Hydrogen Sulfide	2.1	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	7783-06-4	Hydrogen Sulfide	0.0021	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	179601-23-1	m&p-Xylene	10	ug/m3	MDEQ APH VI Screening Level
Air_Outdoor	179601-23-1	m&p-Xylene	0.01	mg/m3	MDEQ APH VI Screening Level
Air_Outdoor	74-83-9	Methyl Bromide	5.2	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	74-83-9	Methyl Bromide	0.0052	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	74-87-3	Methyl Chloride	94	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	74-87-3	Methyl Chloride	0.094	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	78-93-3	Methyl Ethyl Ketone	5200	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	78-93-3	Methyl Ethyl Ketone	5.2	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	108-10-1	Methyl isobutyl ketone	3100	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	108-10-1	Methyl isobutyl ketone	3.1	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	1634-04-4	Methyl tert-Butyl Ether	10.07	ug/m3	MDEQ APH VI Screening Level
Air_Outdoor	1634-04-4	Methyl tert-Butyl Ether	0.01007	mg/m3	MDEQ APH VI Screening Level
Air_Outdoor	75-09-2	Methylene chloride	5.2	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-09-2	Methylene chloride	0.0052	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	91-20-3	Naphthalene	0.077	ug/m3	MDEQ APH VI Screening Level
Air_Outdoor	91-20-3	Naphthalene	0.000077	mg/m3	MDEQ APH VI Screening Level
Air_Outdoor	110-54-3	n-Hexane	730	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	110-54-3	n-Hexane	0.73	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	95-47-6	o-Xylene	73	ug/m3	MDEQ APH VI Screening Level
Air_Outdoor	95-47-6	o-Xylene	0.073	mg/m3	MDEQ APH VI Screening Level
Air_Outdoor	115-07-1	Propylene	3100	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	115-07-1	Propylene	3.1	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	78-87-5	Propylene dichloride	0.24	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	78-87-5	Propylene dichloride	0.00024	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	100-42-5	Styrene	1000	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	100-42-5	Styrene	1	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	79-34-5	Tetrachloroethane	0.042	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	79-34-5	Tetrachloroethane	0.000042	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	127-18-4	Tetrachloroethylene	0.41	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	127-18-4	Tetrachloroethylene	0.00041	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	56-23-5	Tetrachloromethane	0.41	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	56-23-5	Tetrachloromethane	0.00041	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	108-88-3	Toluene	520	ug/m3	MDEQ APH VI Screening Level
Air_Outdoor	108-88-3	Toluene	0.52	mg/m3	MDEQ APH VI Screening Level
Air_Outdoor	156-60-5	trans-1,2-Dichloroethylene	63	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	156-60-5	trans-1,2-Dichloroethylene	0.063	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-25-2	Tribromomethane	2.2	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-25-2	Tribromomethane	0.0022	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	79-00-5	Trichloroethane	0.15	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	79-00-5	Trichloroethane	0.00015	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	79-01-6	Trichloroethylene	1.2	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	79-01-6	Trichloroethylene	0.0012	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-69-4	Trichlorofluoromethane	730	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-69-4	Trichlorofluoromethane	0.73	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	108-05-4	Vinyl Acetate	210	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	108-05-4	Vinyl Acetate	0.21	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-01-4	Vinyl Chloride	0.16	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	75-01-4	Vinyl Chloride	0.00016	mg/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	1330-20-7	Xylene (total)	100	ug/m3	USEPA Regional Screening Level Table - Resident Air
Air_Outdoor	1330-20-7	Xylene (total)	0.1	mg/m3	USEPA Regional Screening Level Table - Resident Air

Appendix E

USEPA Database Outline

EPA United States Environmental Protection Agency

Region 8

Yellowstone River Spill: Data

Go to the main page

On this page:

- Crude oil data
- Soil data
- Air data
- Water data
- Sediment data

View EPA sampling locations and results

Instructions: To use the data mapping application, please click on the image above to launch the viewer in your web browser, and then zoom into the area of interest. When you see the sample icon you are interested in, click on the icon to bring up the sample name, which includes the date the sample was collected, along with a description and a link to the analytical data. If you want to see the analytical data, click on the link to open a window that presents the results along with some explanation of the analytical results qualifiers (U, J or B).

Crude Oil Data

EPA collected two samples of crude oil from valves on the Silvertip Pipeline in the week following the spill. The first sample (SPPR03) was collected near the Conoco Refinery on the north side of the Yellowstone River in Billings, and the second sample (SPPR04) was collected at the block valve on the south side of the Yellowstone River near Riverside Park in Laurel. These samples were analyzed using methods designed to identify the various constituents of the oil. Other methods were used to identify any constituents that might pose a threat to human health in the hours immediately following the spill and whether there were any persistent constituents, such as metals, that might pose a threat to the environment. These results are also consistent with the information provided by the responsible party, ExxonMobil, regarding the assertions that the released oil was a sour medium crude.

The Silvertip Pipeline Crude Oil fact sheet linked below explains the analytical findings for the samples collected from the pipeline and compares these results with those of samples of weathered crude collected from environmental media downstream. Additionally, the analytical laboratory summary reports for the crude oil samples split between EPA and the Montana Department of Environmental Quality (DEQ) are also linked below, but this data is inherently technical and may require scientific interpretation. Please refer to the fact sheet for the interpretation.

Fact Sheet: Summary of Pure and Weathered Crude Oil Samples (PDF)
(6 pp, 843K)
EPA Crude Analysis Report (PDF) (72 pp, 1.6MB)
DEQ Crude Analysis Report (PDF) (45 pp, 1.4MB)

Contact Information

Public questions: 303–312–6015, 8 a.m.–4 p.m. MT weekdays.

Exxon Claims Questions:
888–382–0043

ExxonMobil Community Outreach:
2345 King Avenue West, Suite B
Billings, MT 59102
406-969-1750
Monday - Friday 10 a.m. - 2 p.m.

U.S. Fish and Wildlife Hotline:
800-259-0596

National Information

Oil Cleanup Home

To report a spill: National Response Center (NRC), 800–424-8802

Spill and Cleanup Information

Daily Updates

Questions and Answers

EPA Fact Sheets

Data

Photos

Related links

Montana state government:

- Yellowstone River Spill
- Report areas affected by the spill

Other federal health and environmental information:

- Health Care Information (ATSDR)
- Worker safety around oil spills (NIOSH)
- How to report potentially oiled wildlife (FWS hotline)

about PDF

Soil Data

EPA and the Montana Department of Environmental Quality (DEQ) conducted soil sampling in areas impacted by the Yellowstone River Oil Spill. Samples were collected from areas on public and private property where there was visible oil up to two weeks after the spill occurred, but before any cleanup crews had removed contaminated soils. These sampling results are an important picture of the degree of impact and the petroleum constituents that remain after many weathering processes have taken place. Samples were tested for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOC), extractable petroleum hydrocarbons (EPH), and volatile petroleum hydrocarbons (VPH). The sample analysis results are being provided to the respective property owners.

When crude oil is released and exposed to the environment, many of the smaller, lighter hydrocarbons evaporate into the air within the first 24-48 hours. Evaporation of the lighter compounds leaves behind the medium and heavier portions of the oil that is now the focus of the cleanup effort. The potential for human exposure to these compounds was closely monitored during the first weeks of the spill to ensure that all appropriate actions were taken to protect human health and the environment. The results of the soil samples will greatly assist with assessment and cleanup efforts because they are used to determine where oil was transported, what compounds are present in the environment, and what ecological risk they may pose. Confirmatory samples will likely be collected following cleanup to compare to this data.

Air Data

Air monitoring using real-time instruments that look for volatile organic compounds continue to show no detections in ambient air along the Yellowstone River.

Additionally, six air samples were collected for a 24-hour period at several outdoor locations along the Yellowstone River. These samples were sent to the laboratory for analysis, and all results are posted here. The data show that there continues to be no public health concerns resulting from the release of oil into the river. Two compounds (naphthalene and methylene chloride) were detected at concentrations slightly above the levels used to evaluate potential human health risks. However, naphthalene concentrations are similar to concentrations in the area prior to the spill and methylene chloride is not a compound associated with the oil spill. No other compounds were detected above levels which could pose a risk to human health.

Water Data

Surface water sampling conducted by EPA and DEQ between Laurel and Miles City, Montana indicates there are no petroleum hydrocarbons above drinking water standards in that region. Six surface water samples were collected in the days after the spill to determine the amount of petroleum-related compounds that may be present in the river water. Samples were tested for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOC), extractable petroleum hydrocarbons (EPH), and volatile petroleum hydrocarbons (VPH).

The results of river water analysis are consistent with a release to a rapidly flowing river in that no petroleum-related compounds were identified.

A total of 33 drinking water samples were collected from private residences along the Yellowstone River in the days following the spill. These samples were collected to verify that private wells were not impacted by the spill. The samples were analyzed for constituents of concern related to the crude oil release.

Only one compound in one drinking water sample was detected. This sample was from a well known to be installed in a contaminated groundwater plume associate with an identified EPA Superfund site. This compound (trichloroethylene) is not associated with petroleum products.

In addition, 14 samples were collected from irrigation wells on private property. These samples were collected to verify that these groundwater irrigation wells were not impacted by the spill. The samples were analyzed for constituents of concern related to the crude oil release.

No compounds of concern were detected in any of the irrigation wells samples.

Sediment Data

EPA and the Montana Department of Environmental Quality (DEQ) conducted sediment sampling in areas impacted by the oil spill. Samples were collected from submerged sediments near the shorelines where there was visible oil up to two weeks after the spill occurred. These samples were collected to determine the amount of petroleum hydrocarbons that might have ended up in river sediments due to the violent mixing of the water column during the flooding. These sampling results are an important part of evaluating where the crude oil ended up in the environment and how it may breakdown due to natural

processes. Samples were tested for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOC), extractable petroleum hydrocarbons (EPH), and volatile petroleum hydrocarbons (VPH). tm

Maps of sampling locations

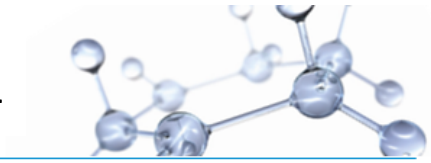
EPA initially posted our sampling locations and results using the maps below. We have since upgraded our data posting capabilities but are providing these original maps for historical purposes.

- Map of air sampling locations
- Map of Benzene sampling locations
- Map of Ethylbenzene sampling locations

Appendix F

Environmental Sampling Report

Silvertip Pipeline Incident
Environmental Sampling as of September 26, 2011



- **Air**: No significant impacts identified
  - 1340 monitoring points, including 192 passive and 97 24-hour samples (includes 25 landowners)
  - EPA - 148 air monitoring points, including 6 canisters
  - 25 of 25 landowner requests fulfilled

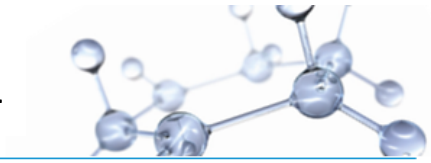
- **Drinking Water Wells**: All incident related samples received meet State and Federal drinking water standards for crude compounds (9 non-incident related screening level exceedances – plasticizer, extractable hydrocarbons, benzo(a)pyrene, dibenzo(a,h)anthracene, aliphatics C19-C36, aromatics C11-C22, bromodichloromethane, chlorodibromomethane)
  - Landowner requested sampling – 155 samples collected, 155 lab results received, sampling continuing
  - EPA - 23 samples collected, 23 lab results received
  - MDEQ – 15 samples collected, 15 lab results received
  - Of 94 requests received, 91 properties sampled, 91 reports delivered

- **Irrigation Wells and Ponds (Private Property)**: All incident related samples received meet State and Federal water quality standards (2 non-incident related screening level exceedance – plasticizer, extractable hydrocarbon), an exceedance of extractable hydrocarbon is under further review to confirm it is not incident related.
  - Landowner requested sampling – 105 samples collected, 105 lab results received, sampling continuing
  - EPA - 6 samples collected, 6 lab results received
  - MDEQ – 9 samples collected, 9 lab results received
  - Of 60 requests received, 59 properties sampled, 55 reports delivered

- **Surface Water**: All incident related samples received meet State and Federal water quality standards (6 non-incident related screening level exceedances – arsenic, aluminum from exploratory river sampling)
  - 93 collected, 93 lab results received
  - EPA - 11 samples collected, 11 lab results received
  - MDEQ – 17 samples collected, 17 lab results received
  - Completed initial river sampling required by Administrative Order, reviewing results as available

- **Sediment**: Two MDEQ samples from visibly impacted sites exceeded State or Federal screening levels for total extractable hydrocarbons and a non-incident related exceedance for a plasticizer. Six 6 non-incident related screening level exceedances from one EPA sample ~65 miles from source.
  - 103 samples collected, 63 lab results received
  - EPA - 33 samples collected, 33 lab results received
  - MDEQ - 2 samples collected, 2 lab results received
  - Completed 31 sediment sampling in the river specified by Administrative Order, reviewing results as available
    - Two samples with xylene exceedances.

Continued on page 2



- **Soil**: 18 EPA samples and 26 MDEQ samples from visibly impacted sites exceeded State or Federal screening or background levels – primarily extractable hydrocarbon; benzene (2), naphthalene (2), benzo(a)pyrene (4), benzo(b)fluoranthene (2), benzo(a)anthracene (1), dibenzo(a,h)anthracene (2), indeno(1,2,3-cd)pyrene (1), aliphatic C9-C18 (16), aliphatic C19-C36 (1), aromatic C9-C10 (2), aromatic C11-C22 (17), total extractable hydrocarbons (51), total purgeable hydrocarbons(6) ; all metals below screening levels or comparable to background.
    - 387 samples collected, 386 lab results received, represents 59 properties
    - EPA - 69 samples collected, 69 lab results received
    - MDEQ – 123 samples collected, 123 lab results received
    - Of 72 requests received, 26 properties sampled, 12 reports delivered
        - 4 locations with exceedances including: benzene (1), benzo(a)pyrene (4), benzo(b)fluroanthene (1), dibenzo (a,h)anthracene (1). At two locations the benzo(a)pyrene exceedances were in the background samples.
    - Completed initial river soil sampling specified by Administrative Order
        - 82 samples received (exceedances include: benzo(a)anthracene (1), benzo(a)pyrene (4), benzo(b)fluoranthene (4), dibenzo(a,h)anthracene (2), indeno(1,2,3-cd)pyrene (1), benzene (2), total extractable hydrocarbons (7); all metals below screening levels or comparable to background with the exception of a river soil sample of 3.9 mg/kg cadmium (screening level = 3.8 mg/kg).

Note: Summary based on available data as of 9/26/2011.

Appendix G

SCAT Oiling Summary Form and
SCAT Process Summary

Silvertip Incident SCAT Plan

August 24, 2011

Amendments to SCAT Plan and/or Treatment Techniques shall be tabled and discussed at the Technical Advisory Committee. The consensus of the committee will be captured by the Chairman for further approvals and endorsed by the co-Chairman.

Reviewed by:

Co-Chairman of TAG- Operations Liaison

8/24/2011
Date

Planning Section Chief

Cauyatt, PSC 8-24-11
Date

USEPA – TAG Chairman

8/24/2011
Date

UC Approval:

Federal On-Scene Coordinator

8/24/2011
Date

REVIEWED BY

State On-Scene Coordinator

8/24/11
Date

ExxonMobil Incident Commander

8/24/11
Date

8/24 18:34 HT

RECEIVED

Record of Revisions				
Revision	**Revision Summary**	**Pages**	**Date Submitted**	**Date Approved**
1	Added ATMS 1 to 8	10 -16	7/22/2011	7/25/2011
2	Added ATM 9, repaginated to decrease size	10, 16-19	7/30/2011	
3	Added SCAT Segment Signoff Process	6, 21-23	8/3/2011	
4	Added ATM 10	20-22	8/13/2011	
5	Added Addendum to ATM 3 (Large Woody Debris/Other Hard Surfaces)		8/18/11	8/18/11
	Added Addendum to ATM 3, 6 and 10 - Best Management Practices for Woody Debris Distribution		8/18/11	8/18/11
	TAG Process Flowcharts for Developing New ATMs		8/18/11	8/18/11
	Added Approved Treatment Methods Target Endpoints		8/13/11	8/17/11

Silvertip Incident SCAT Plan August 24, 2011

Introduction

The Shoreline Cleanup Assessment Technique (SCAT) process involves teams of trained observers who survey the affected shoreline area to provide an accurate geographic or spatial picture of the shoreline oiling conditions to provide appropriate information for decisions regarding shoreline treatment, cleanup operations and tactics for cleanup of surface shoreline conditions. The SCAT process is limited in its scope and does not necessarily provide a comprehensive cleanup plan. The site-specific field SCAT form is attached to this plan as an example.

The SCAT team will make area-specific cleanup recommendations based on Approved Treatment Methods provided as an attachment to this plan. All recommendations will be consensus decisions of representatives present on the SCAT team. Any recommendation not covered by the Approved Treatment Methods will be approved by the Technical Advisory Group. The steps in the shoreline cleanup process are described in Figure 1 and listed here:

1. Shoreline Cleanup Assessment Technique
2. Cleanup operations
3. Inspection to verify that cleanup is complete and area is ready for inspection.
4. SCAT reassessment
5. Documentation report

Scheduled Activities

SCAT teams will consist of at least one Federal, one State and one Responsible Party (RP) representative, and a Tribal representative as available. The State will generally be represented by Montana Fish Wildlife and Parks (FWP) or Montana DEQ, based on each agency's availability. Federal representatives may include the United States Environmental Protection Agency (USEPA) or United States Coast Guard (USCG) as a designated representative of the USEPA, United States Fish and Wildlife Service (USFWS), or Bureau of Land Management (BLM). The RP representative will be a qualified oil spill scientist and will be the Team Leader for logistical and administrative purposes. Teams may deploy with a single Team Leader if necessary. A pool of State and Federal representatives have been trained and calibrated on SCAT methods

Team assignments and SCAT area assignment schedule are developed and provided to SCAT team leaders the evening prior to deployment. Refer to current SCAT schedule for team assignments and contact information. The SCAT strategy is to work downstream from segment A1, then proceeding to Division B and continuing to Division C primarily in a downstream fashion.

Shoreline Access

No private property will be entered without permission. Land Access Specialists have been added to the SCAT Group to pre-identify landownership, contact land owners, get approval or disapproval to enter properties and identify any special issues raised by the land owners. Access points, roads and pathways may be identified prior to SCAT Teams entering properties.

Environmentally Sensitive Areas and Wildlife Issues

Nesting birds will be avoided within a distance in which adult birds will flee the nest. If SCAT teams find themselves within a colony of nesting birds, they will try to safely leave the area as quickly as possible. Teams will contact USFWS or Wildlife Branch Director before entering a nesting area.

In addition to collecting shoreline oiling information the SCAT teams will report information regarding oiled and deceased wildlife that are observed. Dead wildlife and other areas of interest will be noted with GPS positions. Teams will not be collecting live or deceased wildlife. Any wildlife issues will be reported to Wildlife Hotline at **1-800-259-0596.**

Safety Issues

All team members will participate in daily safety briefings/tailgate safety meetings and be prepared to identify any known or perceived safety issue. Team members should carry sun block, anti-bacterial spray or lotion and insect repellant. All SCAT teams will be working on potentially unstable and/or debris strewn shorelines and other shoreline structures (artificial debris, rip-rap, etc.) and must consider this while surveying the riparian areas. The river is at high flow and may be hazardous. Teams will also carry rubber slip-on booties and latex gloves to be used when necessary, if oil is encountered. Teams will carry cell phones that can be used to call for assistance in an emergency. Teams should carry and drink water to avoid dehydration.

All injuries should be reported per the site safety plan. Team members will maintain awareness of recreational vessels/users on the water, and beware of heavy traffic on local highways. The large mature cottonwood galleries pose a potential (and constant) threat of both slumping and falling trees. In addition, overhead threats exist from falling limbs. Slips, trips, and falls, heat stress, ticks, wasps, poisonous snakes, hornets, poison oak, and stinging nettle are serious, common hazards that may be encountered walking in these areas. Team members will wear all proper PPE (Level D) including life jackets, insect repellant, and sunscreen, as appropriate.

Coordination and Data Management

A SCAT Coordinator based in the Command Center will organize teams, plan daily SCAT activities, interface with the Environmental Units and Operations on behalf of the SCAT teams, and provide logistical support for the teams. A SCAT Data Manager based in the Command Center will collect all paperwork, photos, samples and any other products from the SCAT teams on a daily basis. A SCAT Ops liaison will work with Operations to convey cleanup recommendations to operations and ensure that the intent of the recommendations is being met. Role assignments and contact information can be found in the current SCAT organizational chart and Communication Plan Form IC5-205a, respectively. All documentation will ultimately reside with the Documentation Unit.

Long Term SCAT Process

The SCAT Team will develop recommended cleanup techniques to be employed. These recommendations will be presented to the Unified Command for approval. SCAT will continue as an evaluation tool to monitor progress and inspect results for performance endpoints.

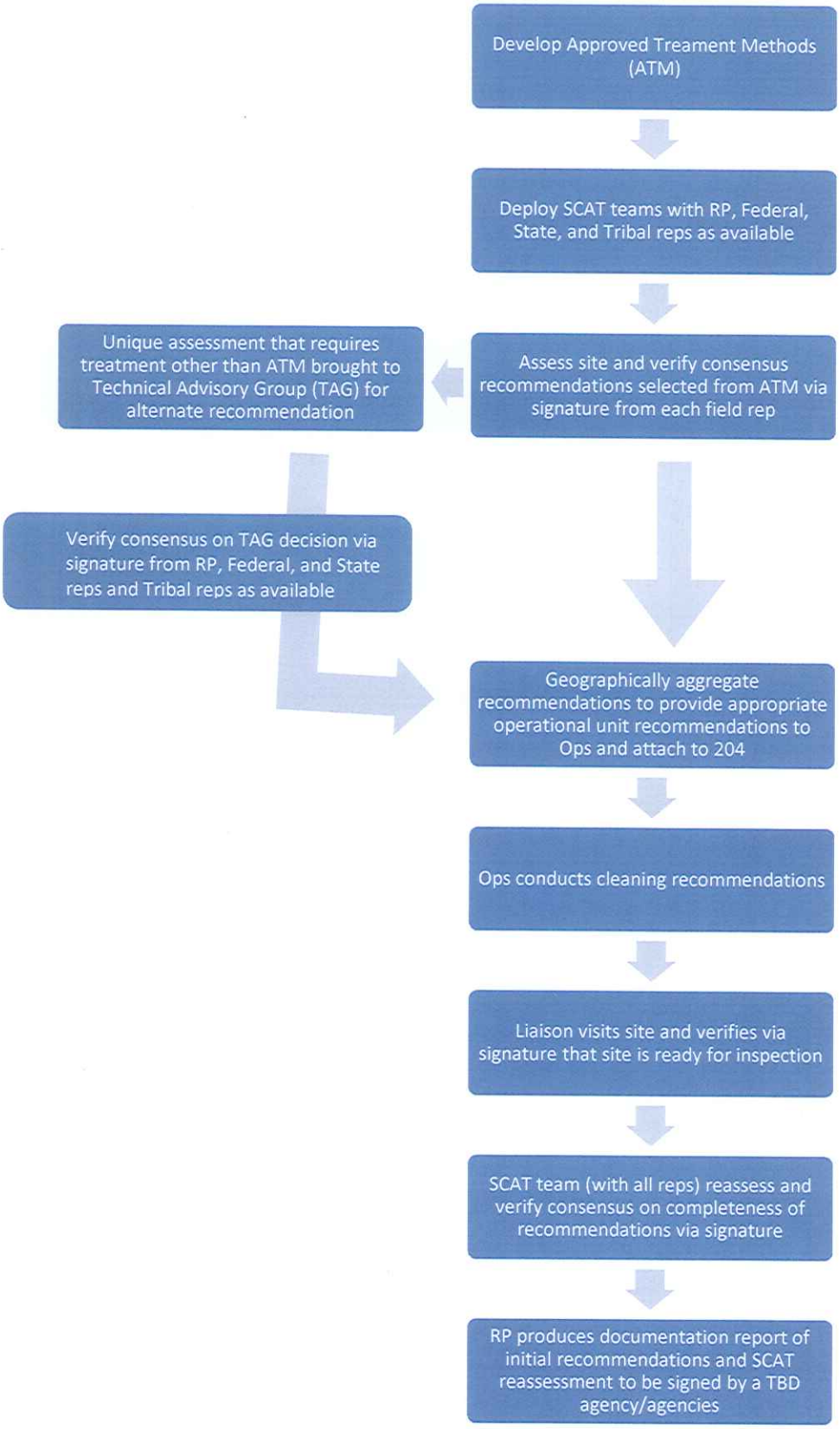


Figure 1. Shoreline cleanup assessment process.

No Further Treatment (NFT) may be recommended by SCAT teams for certain areas where active treatment causes more harm than benefit with respect to the following considerations: ecological, archeological, historical, cultural, safety, and/or land-owner instructions. Typically, but not exclusively, these areas will be characterized by trace or very light oil impacts. Weathering and natural attenuation of the residual oil is expected. Monitoring and sampling of these areas will be conducted as part of the approved long-term Remediation Plan for Downstream Impacted Areas and approved plans for protection of wildlife and historical/cultural resources.

SCAT Segment Sign-Off

Upon completion of treatment by Operations, a SCAT Ops Liaison will perform a site inspection to ensure the Segment is ready for the SCAT reassessment. A SCAT Team, with all appropriate agency representatives, will reassess the Segment and verify consensus on completeness of treatment recommendations. A SCAT Area Transition Report will be developed. See SCAT Segment Sign-Off Sheet for documentation requirements.

Silvertip Pipeline Recovery, Restoration & Remediation Process

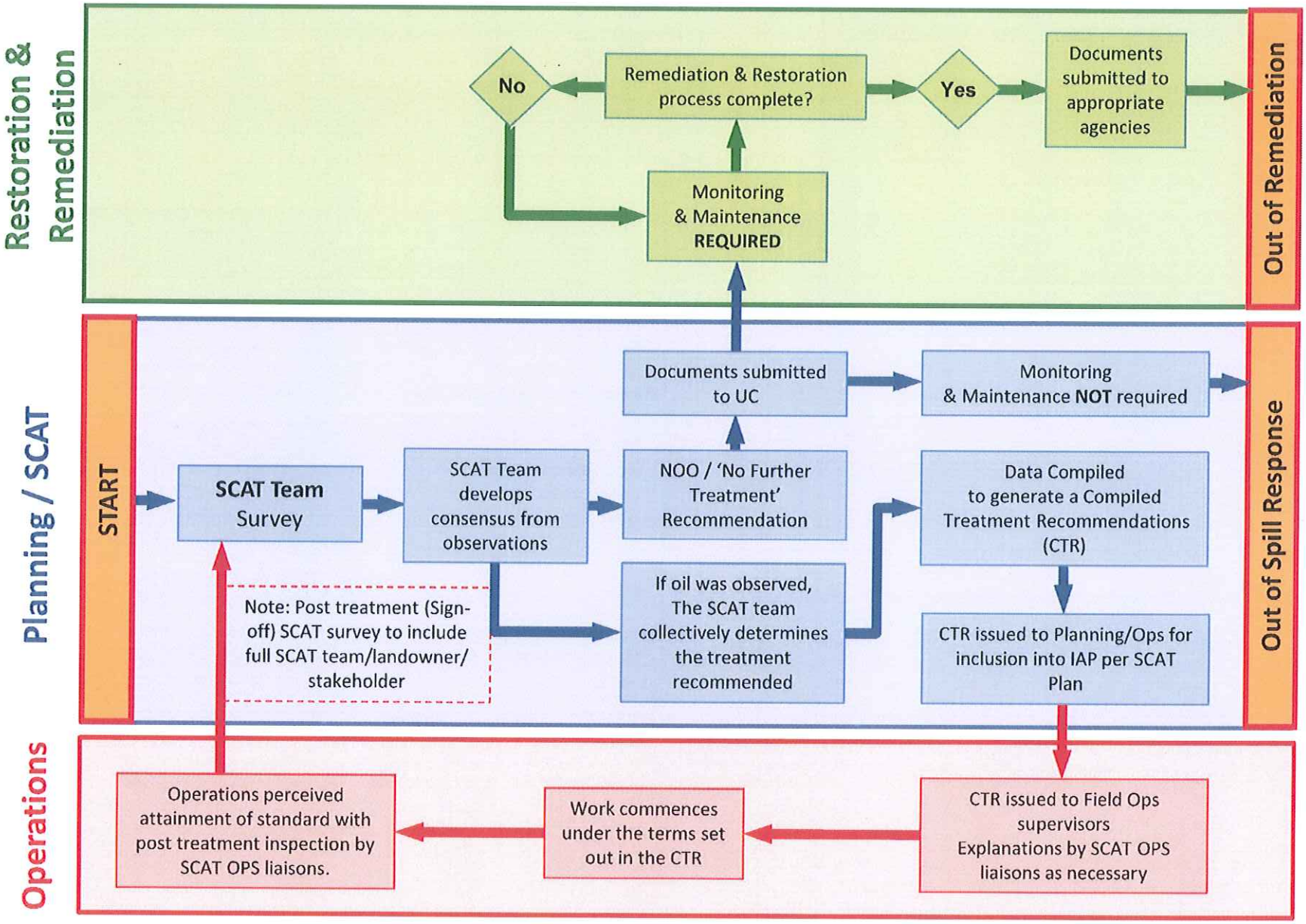


Figure 2: SCAT **Process**

Rev 6 – 24 July 2011

Riverine SCAT Form

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:	Left Bank / Right Bank / Island			low - mean - bankfull - overbank
Operations Division:			hrs to hrs	falling - steady – rising
Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____		Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - ____ deg C

2 SURVEY TEAM # _____	Name	Organization	Signature

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:***_____ ***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 1–10 m 10–100 m >100m 160m **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 _____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	Distnb. %	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR	AP	NO	
A																					

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	cm	cm-cm	SAP	OP	PP	OR	OF	TR	NO	cm	B, R, S, N	Yes / 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

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

Ver. 04 July 2011

Approved Treatment Methods

24 August 2011

APPROVED TREATMENT METHODS

This document lists and defines basic treatment methods that may be recommended in the Riverine SCAT Form issued by the SCAT Program. Regardless of the segment or shoreline, the use of these methods should follow the descriptions provided below. If changes to these methods are required for a specific segment, the changes will be clearly defined in the segment-specific Riverine SCAT Form.

Treatment Methods (defined below):

1. Cutting of Vegetated and Shrub/Scrub Shorelines, Floodplains and Riverbanks (non-high use public access areas)
2. Dead (Unattached) Oiled Vegetation and Small Oiled Debris Removal
3. Large Woody Debris/Other Hard Surfaces
4. Soil/Sediment Removal
5. Sorbent Use Guidelines
6. Heavy Equipment Oiled Debris Removal
7. Natural Attenuation
8. Refer to Technical Advisory Group
9. Treatment with Dust Fixative
10. Light Mechanical Equipment Use in the Riparian Zone

General Guidelines That Should Be Followed With All Methods:

- Work from "clean" areas to "dirty" areas
- Minimize removal of uncontaminated materials to minimize waste
- Resource Advisors (READS) from the resource agencies (USFWS/BLM/EPA/MFWP) ***may*** be embedded with operations teams to ensure these guidelines are followed and ecological concerns are addressed.

1. Cutting of Vegetated and Shrub/Scrub Shorelines, Floodplains and Riverbanks (non-high use public access areas)

This method applies to ground cover and shrub vegetated shorelines that are not maintained and are natural areas. Vegetated shorelines not covered by this method include maintained ditch banks, mowed areas, pastures, and fields.

Resource Advisors (READS) from the resource agencies (USFWS/BLM/EPA/MFWP) will be embedded with operations teams to ensure these guidelines are followed and ecological concerns are addressed.

The cleanup Guidelines for Natural Vegetated and Shrub/Scrub shorelines are as follows:

- Oiled vegetation up to one inch diameter that has more than an oil film may be cut. A film is a light stain that cannot be rubbed off on casual contact. Oil that can be easily rubbed off with light contact may be cut. This oil represents a risk to wildlife. A simple test is to sweep a gloved hand through the oiled vegetation. If oil comes off on the glove,

the vegetation should be cut. If no oil comes off on contact, vegetation may remain unless the landowner wants it removed with concurrence from the RP.

- Do not walk on or trample oiled vegetation that has not been cut. Cut at the leading edge of oiled vegetation, remove the oiled vegetation, and continue cutting on the leading edge.
- Do not cut in areas of mud where boots penetrate into oiled soil surface. Un-oiled soil surface may be walked on but excessive trampling of vegetation such that it causes erosion should be avoided. Some areas may be left until the river recedes and the soil surface becomes firm. The objective is not to drive oil into the soil surface where it may persist.
- Stems of grasses should be cut no less than 5 cm (2 inches) above the base, and the root-rhizome mass must remain undisturbed and intact buried in the substrate. Excessive vegetation cutting and/or substrate removal can lead to erosion and delayed re-growth and recovery.
- Mechanical mowing or harvesting machinery may only be used in areas that are relatively dry and/or the soil surface is firm without more than a film or stain of oil on the soil surface. The tire ruts of mechanical equipment should not penetrate more than 2-3 inches into the soil surface. If there is no oil on the soil surface, tire penetration can exceed 2-3 inches, but should not result in erosion.
- All cut oiled vegetation should be removed rapidly such that it cannot become mobile in storm or wind events.
- Relatively larger plants up to 1 inch in diameter (small willow or Russian olive saplings) should not be cut near the ground as they present a safety hazard for people and pets. Oiled leafy vegetation may be removed from the sapling and, if necessary, stems should be trimmed **at chest level** so they cannot harm workers or pets.
- Do not walk on downed oiled vegetation to access other areas.

Ecological Concerns

- Resource advisors (READS) will review proposed flushing area prior to flushing to assure bird nesting locations will not be affected.
- Stop cutting when there is evidence of soil erosion.
- Stop cutting if cutting is disturbing any wildlife such as nesting birds.
- Use one point of access and egress whenever possible.
- Do not walk on oiled grass that has not yet been cut.
- If access through oiled vegetation or soils is unavoidable, a sorbent path, "snow fence," boardwalk, or some other type of ground protection may be established in consultation with SCAT and/or READs.

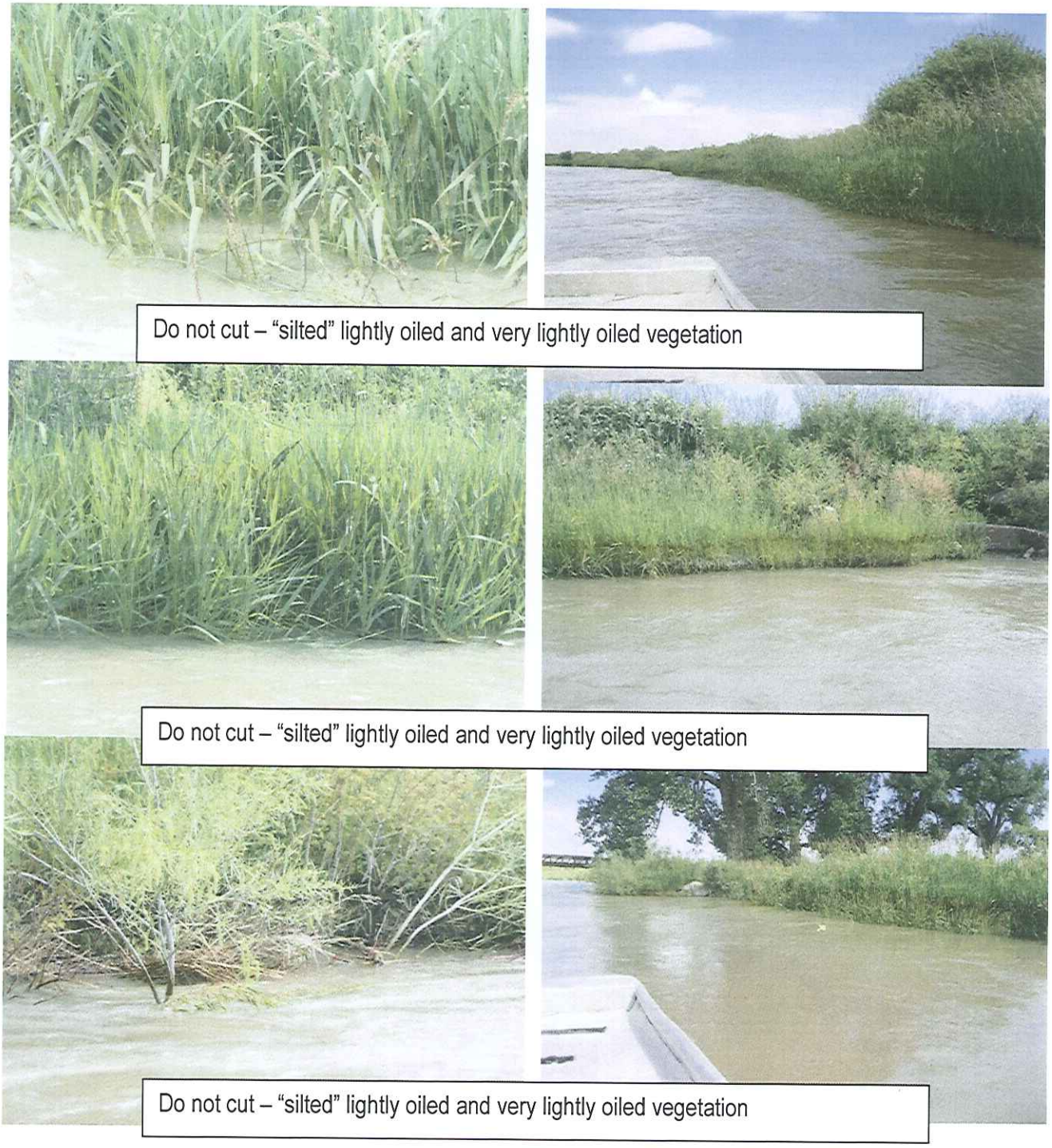
When the oil is easily transferable to wildlife, cutting is approved. SCAT recommends cutting in the following situations:

Cut – "surgical trimming" from vessel or standing on unoiled soil

Cut – remove band standing on un-oiled soil along flooded pathways

Cut to within 2 inches of base (complete removal) – from vessel or standing on un-oiled soil

Cutting is not necessary when access may create more harm than good, and the oil presents no risk to wildlife and will degrade naturally in a few weeks. SCAT does not recommend cutting in the following situations:



NOTE: Cutting along pathways and walkways in high public access areas (e.g., Norm's Island) may include all oiled vegetation.

2. Dead (Unattached) Oiled Vegetation and Small Oiled Debris Removal

Downed oiled vegetation and woody debris (<4-inch diameter) on the properties identified in this STR should be removed as follows:

- Oiled debris with a diameter less than 4 inches should be removed.
- Large oiled woody debris will be cleaned by sorbent wiping or flushing.
- Oiled debris may be cut or chipped with machinery for ease of removal with accompanying air monitoring and job safety analysis (JSA).
- Debris accumulations may contain trapped pooled oil and sorbent containment should be available and in place in these situations.
- Dead oiled vegetation may be raked from adjacent areas to avoid trampling in oiled vegetation. Raking should not be so aggressive that it tears out roots and rhizomes of vegetation.
- Small oiled debris accumulations may also be "herded" for ease of collection by spraying ambient river water with small pumps.
- Stain or film on debris that does not wipe off may remain. If oiled debris produces sheen or otherwise wipes off easily on contact, it may be removed.

Ecological concerns

- Stop when free or mobile oil is found to establish containment and collection. Use sorbents first so no free oil is released.
- Resource advisors from the USFWS will attend site work for monitoring purposes and will consult for wildlife issues.
- Do not disturb wildlife.
- Use one point of access and egress whenever possible.

Examples of small oiled debris for removal are as follows:

Flushing should be attempted first in situations with coated vegetation and oiled sediments. Do not rake vegetation too aggressively, as it impedes recovery and increases persistence of oil in sediment.

3. Large Woody Debris/Other Hard Surfaces

Large woody debris (>4 inches) that is either standing or downed and other oiled hard surfaces on the properties identified in this STR should be cleaned as follows:

- Large oiled woody debris will be cleaned by sorbent wiping or flushing. Dead trees or downed trees may also be cleaned with scraping tools.
- Live standing oiled trees should also be cleaned, being careful not to break the bark surface. Flushing and/or wiping with sorbents should be employed. Do not use scraping tools on live trees.
- Other hard surfaces can be cleaned with sorbent wiping, scraping tools, or flushing as described above.
- No cleaning agents are approved for use. The use of cleaning agents must be approved by the UC.

Note: Large downed oiled woody debris may be cut and removed on private property with landowner permission, in consultation with ExxonMobil.

Addendum to ATM 3 (8/18/11)

In cases where wood chipping equipment and equipment that can be used in the riparian zone to move large woody debris (see ATM 10) are available at a site, Operations may choose to chip and remove from site oiled woody debris between 4 inches and 12 inches in diameter. Stained or clean material may be cut into the largest possible manageable pieces to facilitate access to oil.

- In choosing to chip and remove from site oiled woody debris between 4 inches and 12 inches in diameter, Operations must take into consideration waste generation issues and the effect the additional removal may have on habitat structure.
- This only applies to oiled woody debris, where the oil is removable (per the glove test described in ATM 1). Clean or stained woody debris of all sizes should not be chipped or removed from the site.
- If only a small portion of a large piece of woody debris is oiled and the remainder is clean or stained, to the extent practical, the oiled material can be cut from the larger piece, chipped, if appropriate, and removed.

Ecological concerns

- Do not trample oil into the soil surface.
- Resource advisors from the USFWS will attend site work for monitoring purposes and will consult for wildlife issues.
- Do not disturb wildlife.
- Use one point of access and egress whenever possible.
- Do not use cleaning agents.

Examples of oiled large debris and hard surfaces that may be scraped or wiped:

Note: There may be very little effectiveness in wiping oil off trees. Cleaning the live trees in the photo (on left) may be attempted, but there should be no scrubbing of bark. If oil does not come off easily, stop.

Addendum (Best Management Practices for Woody Debris Redistribution following Cleanup Operations, dated 8/18/11)

Woody debris remaining at the site may consist of the following:

- Clean woody debris of any size
- Stained woody debris of any size
- Coated or sticky debris greater than 4 inches in diameter that has been appropriately treated per ATMs

As work proceeds through an area, woody debris that is not being removed for disposal should be placed back in a manner that generally replicates the natural setting.

- Debris piles – debris should be placed to resemble a natural woody debris pile.
    - In general, pile clean debris as close to the location and orientation of the original debris pile as possible
    - If necessary to displace a pile, place new pile down-slope (closer to river)
    - Large branches or tree trunks should remain in place where possible; smaller branches should be stacked or woven around the large debris
- Other woody debris – clean woody debris should be scattered in a manner that replicates the natural setting.
- Minor amounts of large woody debris may be utilized later, if needed, to discourage future access and support rehabilitation of roads and trails.

General rules:

- If the debris pile is distributed around trees and shrubs, an effort should be made to minimize damage to live vegetation during reconstruction of the debris pile.
- Do not stack wood in organized piles that do not blend into the natural landscape.
- Do not throw pieces of wood anywhere that you cannot see them land. Be aware of other workers or hazards in your immediate area.

4. Soil/Sediment Removal

Sediment removal is typically not desired but may in some instances be beneficial. Sediment removal may occur in the following

- Pooled or thick oil (>1 cm thick) on the sediment surface may be scraped manually or mechanically, being careful to not scrape below the oiled horizon.
- Sediment/soil removal should be done only in heavily oiled areas with no vegetation. In vegetated areas with thick oil, flushing may be attempted to herd the oil into containment and collection. Flushing may also be attempted in non-vegetated areas provided it causes no substantial erosion.
- While removal of native soils should be avoided when possible, oily silt deposited by floodwaters may be removed manually or mechanically.

Ecological concerns

- Do not trample oil into the soil surface. If mechanical removal is used, it should be used on firm ground, and tire ruts should not exceed 2-3 inches.
- Resource advisors from the USFWS will attend site work for monitoring purposes and will consult for wildlife issues.
- Do not disturb wildlife.
- Use one point of access and egress whenever possible.
- Do not use cleaning agents.

Potential site for shallow "surficial" sediment removal with flat shovel or trowel.

5. Sorbent Use Guidelines

Sorbents are defined for this STR as sorbent boom, sweep, pads and snare (pom-poms). When using sorbents, follow the guidelines below:

- Deploy sorbents on the water adjacent to oiled areas that are releasing any oil or heavier sheens (rainbow sheen, brown sheen, black oil). Do not deploy sorbents in silver sheen.
- Sorbent boom and/or snare should be securely deployed to prevent stranding on un-oiled vegetation during storms or wind events.

- Sorbents along exposed shorelines should be checked regularly to prevent stranding or loss of sorbents downstream.
- Sorbents that are water-logged, oiled, or breaking apart must be removed immediately.
- Sorbents may also be deployed by jet boat or airboat where water depths permit.

Ecological Concerns

- Avoid foot traffic that will penetrate into oily mud.
- Avoid walking on oiled soils such that oil is pushed into the subsurface. Walking on un-oiled or very lightly oiled soils is permitted.
- Avoid walking on any oiled vegetation during sorbent boom deployment, maintenance, and removal. One point of ingress and egress.
- If access through oiled vegetation or soils is unavoidable, a sorbent path or "snow fence "boardwalk" or some other type of ground protection may be established in consultation with SCAT and/or READs.

Examples of areas where sorbent use is effective or are being used properly are as follows:

6. Heavy Equipment Oiled Debris Removal

Objective

To identify a strategy for the removal and disposal of terrestrial oily debris via heavy equipment.

Applicable/Designated Areas

The use of heavy equipment will be limited to the terrestrial portion of the Yellowstone River corridor outside of the immediate riparian wetlands. Areas inside the riparian wetlands are sensitive to vehicle use, slow to recover from physical disturbance, and prone to erosion following disturbance of the surface soils. The riparian wetlands targeted for protection are those in low-lying areas that are undisturbed by human activities and are currently in forested flats, wet meadows, emergent scrub/shrub wetlands, and swamps.

Riparian areas where heavy equipment may be used are in agricultural areas, including crop land or fields used for grazing, pasture or paddocks; residential land; or land that has been developed in some manner. Some of these areas have historically been wetland but have been disturbed in some manner such that heavy equipment use will not result in an adverse impact.

Enactment Plan

1. Areas of terrestrial oily debris will be identified by the SCAT team and communicated to the designated operations POC.
2. After speaking with SCAT, operations POC along with shoreline cleanup READ will determine type of machinery that needs to be used.
3. Equipment / machinery (agreed by SCAT) which may include chippers, chainsaws, and earthmoving equipment will be deployed to the **Designated Areas** to collect oily debris. Deployment will be determined by gradient in terrestrial areas where heavy equipment is permitted as judged by the SCAT team.
4. Trained employees will collect oily debris with the use of heavy equipment (≤ 20,000 lb.) and place it onto a track truck for transportation. It is important to note that the use of a chainsaw or other tools may be considered by Operations, in order to cut larger debris into manageable pieces.
5. Oily debris will be transported to a wood chipper, chipped, and handled in accordance with approved disposal plan.

See Addendum (Best Management Practices for Woody Debris Redistribution following Cleanup Operations, dated 8/18/11) under ATM 3 above.

Decontamination

Heavy equipment and chipper will be decontaminated as per standard operating procedures currently being utilized in the field. In addition, work area will be prepared to minimize contamination during operation.

Groups Involved

Environmental Planning Unit
Logistics
Operations Chief
Operations POC Site A
Operations POC Site A

7. **Natural Attenuation**

Where active treatment causes more harm than benefit (not to include economic). No Further Treatment (NFT) may be recommended by SCAT teams for certain areas based on land-owner instructions and/or ecological, archeological, historical, cultural, and/or safety considerations. Typically, but not exclusively, these areas will be characterized by trace or very light oil impacts. Weathering and natural attenuation of the residual oil is expected. Monitoring and sampling of these areas will be conducted as part of the approved Remediation Plan for Downstream Impacted Areas and approved plans for protection of wildlife and historical/cultural resources.

8. **Reference Cleanup Recommendation or Decision to Technical Advisory Group**

If the SCAT Team identifies a unique situation that the preceding Treatment Methods do not appropriately address, the team may make a recommendation for the situation to be reviewed by the Technical Advisory Group (TAG). This recommendation must be approved by the TAG before it is implemented. The SCAT team may also defer to the TAG to make and approve an appropriate area-specific cleanup recommendation.

9. Treatment with Dust Fixative

Objective

To minimize the spread of oil from living or dead woody materials or non-removable hard materials to wildlife or the surrounding environment in situations where removal is not a viable option.

Excluding live trees and shrubs:

- Fixation should be considered as the last possible alternative to no further treatment.
- SCAT OPS and appropriate agency representatives should be consulted before application.
- SCAT OPS and appropriate agencies will ensure that proper documentation including location is entered into the segment record for all fixation applications.

Applicability

Oil fixation with dust should be considered a treatment method on materials as described in the objective which cannot be removed for reasons such as safety, large equipment is required but not permitted (see Heavy Equipment Removal Plan), cultural, historical, or other reasons an area should not be disturbed. Examples: live trees stained by oil, large woody debris piles with approximately 5 percent or less oiled area which is not accessible by manual labor or available equipment.

Enactment plan

The purpose is to dust the affected area with a locally available fine clay or silt to coat the oil and create an inert barrier.

Fixative material should be obtained as close as possible to the work site. Fine particle material is required for proper adhesion to oiled surface.

1. Fixative material should only be obtained from non-vegetated locations, away from the river banks, which will not have an adverse environmental impact (increase erosion or sedimentation rates).
2. Apply the material by sprinkling by hand or with a hand applicator. Do not bury the oiled surface with large volumes of fine clay/silt; a dusting is the desired application rate.
3. Application could be a temporary measure, if conditions change other treatment options may be considered.
4. Areas chosen for application should be inspected at a later date to determine if reapplication is required (see SCAT OPS documentation records).

10. Light mechanical equipment use in the Riparian Zone

Objective

The equipment is required to identify the presence or absence, and degree of product, located in and under debris piles. The objective is to construct openings in these debris piles that allow

viewing of the underlying woody substrate, and additionally, to view ground/water surfaces lying under those debris piles. If product is identified through this process, this equipment may or may not be appropriate for remediation of that product in those debris piles. The intent addressed by this equipment is not designed to include larger debris/pile removal.

Applicable/Designated Areas

The riparian areas referred to in this treatment method are those in low lying areas that are undisturbed by human activities and are currently in forested flats, wet meadows, emergent scrub/shrub and wetlands. Equipment use in riparian areas that are used for cropland or fields used for grazing, pasture or paddocks; residential land; or land that has been developed in some manner are covered in a separate approved treatment method (ATM 6).

Enactment Plan

1. Areas with large debris piles where the use of light equipment may be applicable to meet the objective described above will be identified by the SCAT Team and communicated to the operations POC.

2. After speaking with SCAT, operations POC along with the shoreline cleanup READ determine type of machinery that needs to be used within the constraints of 3 below. The POC will seek concurrence from Wildlife on the use of the equipment and ensure that flagging of any sensitive wildlife areas has been completed.

3. Equipment may operate in riparian wetland areas that are free of standing water and should be operated in a manner that minimizes disruption of surface soil and vegetation.

4. The use of machinery to achieve the objective described above will be restricted to light equipment with rubber tracks (not rubber tires) and less than 10,000 lbs operating weight (gross vehicle weight plus maximum capacity). John Deere 27D is an example of an appropriately sized piece of equipment which meets the requirements.

5. Refer to Clean Woody Debris Distribution Guidelines.

See Addendum (Best Management Practices for Woody Debris Redistribution following Cleanup Operations, dated 8/18/11) under ATM 3 above.

Decontamination

Equipment will be decontaminated as per standard operating procedures currently being utilized in the field. In addition, work area will be prepared to minimize contamination during operation.

SCAT Segment Sign-Off Sheet and Proposed SCAT Area Transition Report

24 August 2011

Silvertip Pipeline Spill
SCAT Segment Sign-Off Sheet

Operations Division: A___ B___ C___

SCAT Area Number (i.e. A12): _____

SCAT Segment Number (i.e. A12-LB/IS/RB): _____

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

Sign Name Federal Representative (EPA/USCG)	Print Name	Date
Sign Name State Representative (DEQ/FWP)	Print Name	Date
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.

Proposed SCAT Area Transition Report (Response to Remediation)

The following information should be included in the Transition Report for each of the SCAT Areas. Please contact Steven Merritt (EPA) or Sandi Olsen (MTDEQ) for clarification and guidance regarding this expectation:

1. **Executive Summary**
   - 1.1. Map of Segment (SCAT Segment and Parcel Boundaries)
   - 1.2. Land Ownership within Segment
   - 1.3. Summarize SCAT Observations
   - 1.4. Treatment Recommendations Applicable to Segment
   - 1.5. Actions Taken within Segment
   - 1.6. Landowner or Environmental Concerns
   - 1.7. Outcomes of Segment

2. **Transition Sign-Off Form**
   - 2.1. EPA and DEQ Representatives

3. **Appendix A: Initial SCAT Assessment Report**
   - 3.1. SCAT Evaluation Criteria and Approved Treatment Method Tables
   - 3.2. Initial SCAT Assessment Form and Sketches

4. **Appendix B: Applicable Combined Treatment Recommendations (CTRs)**
   - 4.1. All Applicable SCAT Segment CTRs
   - 4.2. All Applicable Private Property Addendums
   - 4.3. SCAT Segment Cultural/Historic/Natural Resource Constraint Narrative

5. **Appendix C: Operations Information**
   - 5.1. Oil Removal Operations Summary
   - 5.2. Reclaimed Areas Impacted by Removal Activities Summary

6. **Appendix D: Sampling Information (If Applicable)**
   - 6.1. Sampling Summary and Maps
   - 6.2. Characterization Sampling Locations and Sample IDs
   - 6.3. Confirmatory Sampling Locations and Sample IDs

7. **Appendix D: SCAT Reassessment Documentation**
   - 7.1. SCAT Reassessment Form and Sketches
   - 7.2. SCAT Left Bank Reassessment Conclusions Table
   - 7.3. SCAT Island Reassessment Conclusions Table
   - 7.4. SCAT Right Bank Reassessment Conclusions Table

8. **Appendix E: Completed SCAT Segment Sign-Off Forms**

9. **Appendix G: Photo Log**
   - 9.1. Photo Location Map (Segment GIS Map with SCAT Polygons and Photo Locations)
   - 9.2. Initial SCAT Assessment Photos
   - 9.3. Operations Photos
   - 9.4. Inspection Photos
   - 9.5. SCAT Reassessment Photos

Record of Revisions				
Revision	**Revision Summary**	**Pages**	**Date Submitted**	**Date Approved**
1	Added ATMS 1 to 8	10 -16	7/22/2011	7/25/2011
2	Added ATM 9, repaginated to decrease size	10, 16-19	7/30/2011	
3	Added SCAT Segment Signoff Process	6, 21-23	8/3/2011	
4	Added ATM 10	20-22	8/13/2011	
5	Added Addendum to ATM 3 (Large Woody Debris/Other Hard Surfaces)		8/18/11	8/18/11
	Added Addendum to ATM 3, 6 and 10 - Best Management Practices for Woody Debris Distribution		8/18/11	8/18/11
	TAG Process Flowcharts for Developing New ATMs		8/18/11	8/18/11
	Added Approved Treatment Methods Target Endpoints		8/13/11	8/17/11

SILVERTIP PIPELINE RELEASE

ADDENDUM TO ATM 3
(LARGE WOODY DEBRIS/OTHER HARD SURFACES)

Silvertip Pipeline Release Incident

Addendum to ATM 3; Large Woody Debris/Other Hard Surfaces

Amendments to SCAT Plan and/or treatment techniques shall be tabled and discussed at the Technical Advisory Group (TAG). The consensus of the committee will be captured by the Chairman for further approval and endorsed by the co-chairman.

Reviewed by:

Co-Chairman of TAG - Operations Liaison

8/18/11
Date

Planning Section Chief

8/18/2011
Date

U.S. EPA – TAG Chairman

8/18/2011
Date

Environmental Unit Lead

8/18/11
Date

Unified Command Approval:

C. MITERS
Federal On-Site Coordinator

8-18-11
Date

received by SCENE
State On-Site Coordinator

8-18-11
Date

ExxonMobil Incident Commander

8-18-11
Date

8/24 18:34 HT

RECEIVED

ADDENDUM
ATM 3
Large Woody Debris/Other Hard Surfaces

In cases where wood chipping equipment and equipment that can be used in the riparian zone to move large woody debris (see ATM 10) are available at a site, Operations may choose to chip and remove from site oiled woody debris between 4 inches and 12 inches in diameter. Stained or clean material may be cut into the largest possible manageable pieces to facilitate access to oil.

- In choosing to chip and remove from site oiled woody debris between 4 inches and 12 inches in diameter, Operations must take into consideration waste generation issues and the effect the additional removal may have on habitat structure.
- This only applies to oiled woody debris, where the oil is removable (per the glove test described in ATM 1). Clean or stained woody debris of all sizes should not be chipped or removed from the site.
- If only a small portion of a large piece of woody debris is oiled and the remainder is clean or stained, to the extent practical, the oiled material can be cut from the larger piece, chipped, if appropriate, and removed.

SILVERTIP PIPELINE RELEASE

ADDENDUM TO ATM 3, 6, AND 10 – BEST MANAGEMENT PRACTICES FOR WOODY DEBRIS DISTRIBUTION

Silvertip Pipeline Release Incident

Addendum to ATM 3 (Large Woody Debris/Other Hard Surfaces), ATM 6 (Heavy Equipment Oiled Debris Removal), and ATM 10 (Light Mechanical Equipment Use in the Riparian Zone

Amendments to SCAT Plan and/or treatment techniques shall be tabled and discussed at the Technical Advisory Group (TAG). The consensus of the committee will be captured by the Chairman for further approval and endorsed by the co-chairman.

Reviewed by:

Co-Chairman of TAG - Operations Liaison

8/18/11
Date

Planning Section Chief

8/18/2011
Date

U.S. EPA – TAG Chairman

Harrell A. Bell 8/18/2011
Date

Environmental Unit Lead

8/18/2011
Date

Unified Command Approval:

A. MYERS
Federal On-~~Site~~ SCENE Coordinator

8-18-11
Date

reviewed by
State On-Site Coordinator

8-18-11
Date

ExxonMobil Incident Commander

8-18-11
Date

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8/19

Addendum to
ATM 3 (Large Woody Debris/Other Hard Surfaces), ATM 6 (Heavy Equipment Oiled Debris Removal), and ATM 10 (Light Mechanical Equipment Use in the Riparian Zone

Best Management Practices for Woody Debris Redistribution following Cleanup Operations

Woody debris remaining at the site may consist of the following:

- Clean woody debris of any size
- Stained woody debris of any size
- Coated or sticky debris greater than 4 inches in diameter that has been appropriately treated per ATMs

As work proceeds through an area, woody debris that is not being removed for disposal should be placed back in a manner that generally replicates the natural setting.

- Debris piles – debris should be placed to resemble a natural woody debris pile.
    - In general, pile clean debris as close to the location and orientation of the original debris pile as possible
    - If necessary to displace a pile, place new pile downslope (closer to river)
    - Large branches or tree trunks should remain in place where possible; smaller branches should be stacked or woven around the large debris
- Other woody debris – clean woody debris should be scattered in a manner that replicates the natural setting.
- Minor amounts of large woody debris may be utilized later, if needed, to discourage future access and support rehabilitation of roads and trails.

General rules:

- If the debris pile is distributed around trees and shrubs, an effort should be made to minimize damage to live vegetation during reconstruction of the debris pile.
- Do not stack wood in organized piles that do not blend into the natural landscape.
- Do not throw pieces of wood anywhere that you cannot see them land. Be aware of other workers or hazards in your immediate area.

SILVERTIP PIPELINE RELEASE

TAG PROCESS FLOWCHARTS FOR DEVELOPING NEW ATMS

Silvertip Pipeline Release Incident

TAG Process Flowcharts for Developing New ATMs and for Responding to Field Operations Requests to Modify a CTR

Reviewed by:

Environmental Unit Leader

8/18/11
Date

Planning Section Chief

8/18/2011
Date

U.S. EPA – TAG Chairman

8/18/2011
Date

Unified Command Approval:

C. MIGNS

Federal On-~~Site~~ SCENE Coordinator

8-18-11
Date

Approved by

State On-Site Coordinator

8-18-11
Date

ExxonMobil Incident Commander

8-18-11
Date

8/24 18:34 HT

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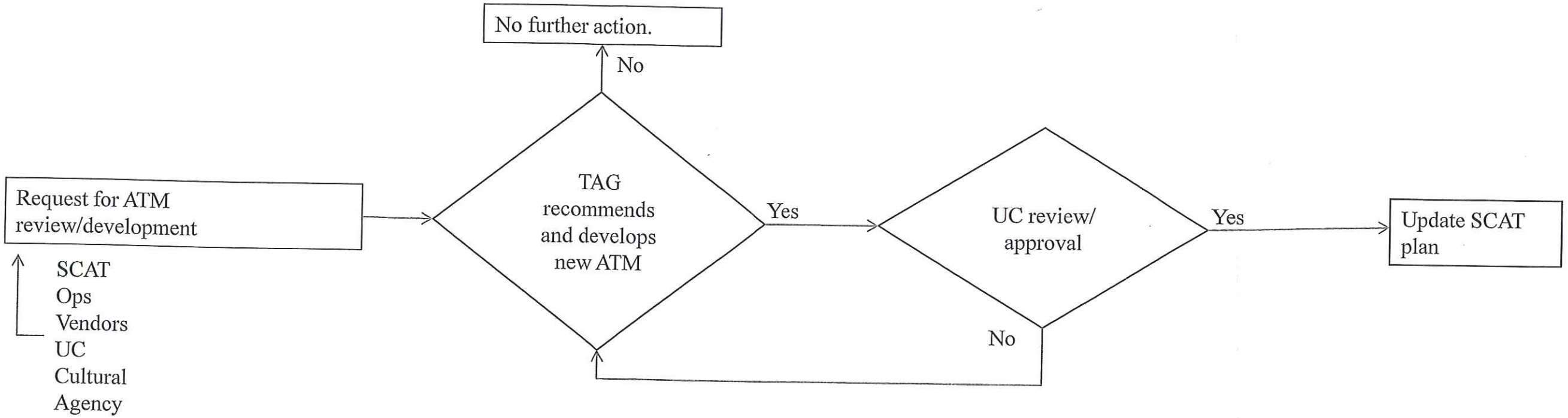
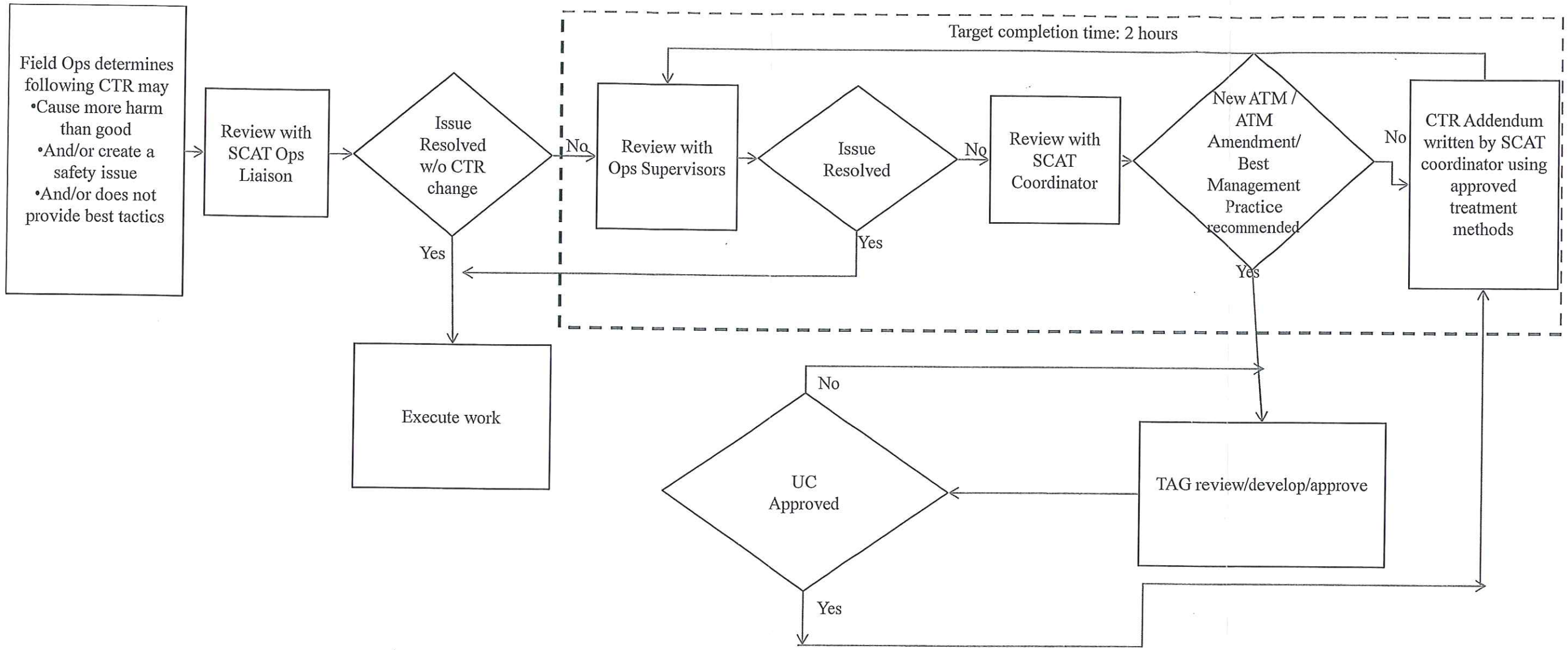

No further action.
No
Request for ATM review/development
TAG recommends and develops new ATM
Yes
UC review/ approval
Yes
Update SCAT plan
No
SCAT
Ops
Vendors
UC
Cultural
Agency


Field Ops determines following CTR may
•Cause more harm than good
•And/or create a safety issue
•And/or does not provide best tactics
Review with SCAT Ops Liaison
Issue Resolved w/o CTR change
Yes
No
Execute work
Target completion time: 2 hours
Review with Ops Supervisors
Issue Resolved
Yes
No
Review with SCAT Coordinator
New ATM / ATM Amendment/ Best Management Practice recommended
No
Yes
CTR Addendum written by SCAT coordinator using approved treatment methods
TAG review/develop/approve
UC Approved
No
Yes

SILVERTIP PIPELINE RELEASE

INCIDENT APPROVED TREATMENT METHODS TARGET ENDPOINTS

Silvertip Pipeline Release Incident

Approved Treatment Methods Target Endpoints ~~(Draft)~~

Reviewed by:

Environmental Unit Leader

8/13/11
Date

Planning Section Chief

8/13/11
Date

Operations Section Chief

8/13/11
Date

U.S. EPA – TAC Chairman

8/13/11
BARENBS
Date

State of Montana DEQ

8/13/2011
Date

State of Montana FWP

8/15/11
Date

U.S. DOI/BLM

8/15/11
Date

Unified Command Approval:

CAMYERS

Federal On-Site Coordinator

8/16/4
Date

reviewed by
- comment
p. 2

State On-Site Coordinator

8-17-11
Date

ExxonMobil Incident Commander

8-17-2011
Date

RECEIVED SRS 8/17/11 1739

Silvertip Incident Qualitative Approved Treatment Methods Target Endpoints
August 2, 2011

Introduction

This Target Operational Endpoints document has been prepared for use by Shoreline Cleanup Assessment Technique (SCAT) teams to help evaluate when treatment activities by the Operations Section for the Silvertip Pipeline Release (Silvertip) oil spill response have been completed. These Target Operational Endpoints are based on standard spill response guidance and practices, oil spill cleanup documents, and experiences from other oil spills. They were developed with input from the federal, state, local and responsible parties involved in treatment activities

The practical reasons and objectives for assigning qualitative Target Operational Endpoint are as follows.

- Define the conditions beyond which further active treatment is likely to provide no net environmental benefit and may delay, rather than accelerate, recovery of impacted habitats and natural resources
- Define the target conditions that must be achieved before active treatment may cease, and resources and equipment may be demobilized or re-tasked. As such, these criteria signal the transition from active response-related cleanup to maintenance and monitoring, or final sign-off.
- Provide Operations with clear targets for when response-related treatment activities are done; and
- Provide SCAT Teams with criteria with which to evaluate results of treatment activities.

The SCAT process, though, does not include sampling and uses only qualitative operational endpoints to assess whether treatment activities have been completed. It is recognized that the State of Montana may have additional endpoint requirements, beyond the SCAT Target Operational Endpoints specified in this document, which may include quantitative sampling of surface water, soils, sediments and groundwater and comparison of results to applicable State standards. In some cases, as part of a longer term remediation and monitoring plan, further treatment and/or a period of monitoring (e.g., in cases where further cleanup may cause more harm than good) may be required to address State of Montana quantitative endpoints.

Approved Treatment Methods

To date, ten approved treatment methods (ATMs) have been accepted by Unified Command for reducing oiling, as follows:

1. Cutting oiled vegetation
2. Removing dead, oiled vegetation and small (<4 inches diameter) oiled woody debris
3. Cleaning large (>4 inches), oiled woody debris or other hard surfaces
4. Manually removing oiled (surface) sediment
5. Using sorbent boom, sweep, pads and snare to remove (surface deposited) oil
6. Removing oiled debris by using heavy equipment
7. Natural attenuation
8. Refer to Technical Advisory Group (TAG)

9. Treating with dust fixative (limited application)
10. Light mechanical equipment use in the riparian zone

Operational endpoints will help determine when use of the ATMs is complete.

For this document, "pooled , mobile or recoverable "black oil" is defined as >1.0 cm thick oil cover that poses a threat as a secondary oiling source.

Oil Coat is defined as oil thickness ≤0.1cm and >0.01cm. Oil Coat can be scratched off with fingernail on coarse sediments or rocks.

Oil Stain is visible oil ≤0.01cm thick. Oil Stain cannot be scratched off easily on coarse sediments or rocks.

General Operational Endpoints

The following general Target Operational Endpoints are applicable to all riverine habitats:

- Oiled banks and structures shall be free of pooled, mobile or recoverable oil that is capable of being refloated when inundated.
- Floating oil-coated debris shall be removed.
- Oiling stain or sporadic coat may remain if it does not rub off on contact (residual oil not easily removed does not pose a significant contact hazard to wildlife because it does not wipe off on feathers or fur, and is not a source of persistent/chronic sheen).
- Depending on negotiations with individual landowners, additional treatment requirements may supplement Unified Command requirements; these cases will be coordinated by RP representatives.
- Un-oiled debris, sediment and vegetation will be left in place.

Additional-Habitat Specific Target Operational Endpoints

Table 1 lists habitat where SCAT surveys have found oiling. Habitat type is based on a combination of general habitat found along the River and primary bank type called out on SCAT's River Bank Oiling Summary Form. Table 1 also provides Habitat-Specific Operational Treatment Endpoints.

Table 1: Correlation of Habitat-specific Target Operational Endpoints

Endpoint Criteria[1]	Habitat									
	Man-Made Structures: Rip rap	Man-Made Structures: Industrial Area	Man-Made Structures: Residential Area and High Public Use	Man-Made Structures: Low Public Use	Cutbanks and Scarps	Exposed Sediment Bank and Flats	Uplands	Vegetated Banks	Wetlands	Woody Debris
Oil stains and coatings that do not rub off on contact may be allowed to weather and degrade.	X	X	X	X	X	X	X	X	X	X
Where treatment could exacerbate erosion, surface oil may be allowed to weather and degrade.					X			X		
Inaccessible oil stains and coating may be allowed to weather and degrade if removal is not readily feasible or unsafe.	X	X	X	X	X	X	X	X	X	X
Some very limited oil coating, treated per ATM No. 9 with local fine soils; oily coating does not rub off; left to weather and degrade.	X	X			X	X	X	X		X
Areas ranging up to light oiling coverage may be left to recover naturally if aggressive cleanup may cause long-term damage.				X	X	X	X	X	X	X

1. Depending on negotiations with individual landowners, treatment requirements may differ from Unified Command requirements; these cases will be coordinated by RP representatives.

Segments as Related to Endpoints

Based on SCAT surveys, Compiled Treatment Recommendations (CTRs) were prepared to provide Operations with guidance on treatment and were subsequently adopted by Unified Command as formal direction to Operations on work to be completed in a given segment. The CTRs were developed by combining Operational Segments that use the same access and staging areas and (generally) have similar habitat. The Segments are broken down for treatment by "Zones" based on oil coverage ("heavy oil cover" to "no observed oil").

Once Target Operational Endpoints criteria are met in each Zone, treatment within the Segment will be considered complete.

TAG Review - Upon identification of a CTR by the US Coast Guard (USCG), Operations, or SCAT that may not be implementable or may do more harm than good in a segment, a request can be made to the TAG (via Approved Treatment Methods #8) to review CTR. Prior to a TAG request, the requestor should first try to resolve questions on the CTR with Operations and SCAT. A decision deadline must be included in the request. TAG will review the CTR to determine if an alternate approved treatment method is needed. Review can consist of evaluating pictures/video or visit to the field. Comments and recommendations will be documented on the attached TAG review form.

A CTR also may contain separate treatment stipulations and/or treatment activities agreed upon by a private landowner and the Responsible Party. These will be attached to the CTR as an addendum for reference during inspection by SCAT teams.

Inspecting, Tracking and Documenting Target Operational Endpoints

Endpoint criteria will be visually observed and assessed by using the same SCAT methodology and terminology used in SCAT oiling surveys.

- **Informal pre-inspection.** After Operations treatment activities are complete, the SCAT Ops Liaison will first perform an informal Segment and CTR inspection. The SCAT Ops Liaison will either recommend additional treatment or notify the SCAT Coordinator that treatment appears to be complete.
- **Post-Operations SCAT assessment.** If treatment is considered complete by the SCAT Ops Liaison, a SCAT team will then perform a formal post-Operations SCAT assessment. In the case of public lands, the SCAT team must include a representative of the managing agency. The SCAT team will either:
    - recommend additional treatment; or
    - determine that treatment per the CTR is complete; or
    - determine no further treatment (NFT) should be performed because further action would cause potential greater harm.

For consistency, results will be documented, by Operational Segment, on the River Bank Oiling Summary Form which is similar to the original summary forms (see attached copy).

TAG Request / Review Form

US Coast Guard Request for Review

Names _____

Request Details:

TAG Review

Group Member Names _____

Review Details:

EPA -

Montana DEQ -

Responsible Party

DNRC

Montana FWP

Unified Command Approval:

Federal On-Site Coordinator	Date
State On-Site Coordinator	Date
ExxonMobil Incident Commander	Date

Description of Surface Oiling

Oil Width

Represents the average width of the oiled area or band in the shoreline segment. If multiple bands or areas occur across shore, width represents the sum of their widths.

WIDE	**> 6 m**
MEDIUM	**> 3 to □ 6 m**
NARROW	**> 0.5 to □ 3 m**
VERY NARROW	**≤0.5 m**

Note: enter exact width on form (e.g., 1.5 m) and avoid category break values (0.5 m, 3 m, and 6 m).

Oil Distribution (DIST)

Represents the percent of the surface within a band or area covered by oil. In the event of multiple bands, distribution refers to the term that best represents the oil conditions for the segment.

TRACE **(TR)**	**<1%**
SPORADIC **(SP)**	**1 – 10%**
PATCHY **(PT)**	**11 – 50%**
BROKEN **(BR)**	**51 – 90%**
CONTINUOUS **(CN)**	**91 – 100%**

Note: enter exact percentage (e.g., 60%) and avoid category break values (1%, 10%, 50%, and 90%).

Oil Thickness

Refers to the average or dominant oil thickness within a band or area.

- **TO** ***POOLED OR THICK OIL*** – generally consists of fresh oil or mousse accumulations >1.0 cm thick: record actual thickness.
- **CV** ***COVER*** – ≤1.0 cm and >0.1 cm thick.
- **CT** ***COAT*** – ≤0.1 cm and >0.01 cm thick coating, can be scratched off with fingernail on coarse sediments or bedrock.
- **ST** ***STAIN*** – ≤0.01 cm; cannot be scratched off easily on coarse sediments/bedrock
- **FL** ***FILM*** – transparent or translucent film or sheen.

Oil Character/Debris Type

- **FR** ***FRESH*** — unweathered, low viscosity oil.
- **MS** ***MOUSSE*** — emulsified oil (oil and water mixture) existing as patches or accumulations, or within interstitial spaces.
- **TB** ***TAR BALLS*** — discrete balls on sediment or adhered to rock or coarse-sediment. Diameters are generally <0.1 meter.
- **PT** ***PATTIES*** — tar or mousse; discrete patties on sediment or adhered to rock or coarse-sediment shoreline. Diameters are generally ≥0.1 meter.
- **TC** ***TAR*** — weathered coat or cover (see Oil Thickness) of tarry, almost solid consistency.
- **SR** ***SURFACE OIL RESIDUE*** — Consists of non-cohesive, oiled, surface sediments, either as continuous patches or in coarse-sediment interstices.
- **AP** ***ASPHALT PAVEMENT*** — cohesive mixture of oil and sediments.
- **NO** ***NO OIL*** observed.
- **DB** ***DEBRIS*** — can consist of logs, vegetation, rubbish or general debris; includes spill response items (sorbents, boom, snares).

Example of Oiling Classification Method for a Shoreline Segment

STEP ①

Width of oiled area: **2 m** = narrow

\+ **Distribution** estimated at: **75%** = broken

Initial Surface Oil Cover Matrix Category: **Moderate**

	Width of Oiled Areas:			
Distribution:	**Wide**	**Medium**	**Narrow**	**Very Narrow**
Continuous	Heavy	Heavy	Moderate	Light
Broken	Heavy	Heavy	**Moderate**	Light
Patchy	Moderate	Moderate	Light	Very Light
Sporadic	Light	Light	Very Light	Very Light
Trace	Very Light	Very Light	Very Light	Very Light

➢ Therefore, this shoreline has a **MODERATE** surface oil cover.

STEP ②

Initial Surface Oil Cover Matrix Category (from above) = **Moderate**

\+ Average oil **thickness:** **2 cm** = **thick**

Final Surface Oil Matrix Category ***Heavy***

Average Thickness:	***Initial Surface Oiling Category:***			
	Heavy	**Moderate**	**Light**	**Very Light**
Thick or Pooled	Heavy	**Heavy**	Moderate	Light
Cover	Heavy	Heavy	Moderate	Light
Coat	Moderate	Moderate	Light	Very Light
Stain/Film	Light	Light	Very Light	Very Light

➢ This shoreline has a **HEAVY** amount of surface oil. This information can then be used, in part, to determine cleanup priorities and options.

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APPLIED SCIENCES, INC.

Initial Surface Oil Cover Matrix

		Width of Oiled Area			
		Wide	**Medium**	**Narrow**	**Very Narrow**
Oil Distribution	**Continuous 91 – 100%**	Heavy	Heavy	Moderate	Light
	Broken 51 – 90%	Heavy	Heavy	Moderate	Light
	Patchy 11 – 50%	Moderate	Moderate	Light	Very Light
	Sporadic 1 – 10%	Light	Light	Very Light	Very Light
	Trace < 1%	Very Light	Very Light	Very Light	Very Light

Surface Oil Categorization Matrix

		Initial Categorization of Surface Oil			
		Heavy	**Moderate**	**Light**	**Very Light**
Average Thickness	**Thick or Pooled > 1 cm**	Heavy	Heavy	Moderate	Light
	Cover 0.1 – 1.0 cm	Heavy	Heavy	Moderate	Light
	Coat 0.01 – 0.1 cm	Moderate	Moderate	Light	Very Light
	Stain/Film < 0.01 cm	Light	Light	Very Light	Very Light

(Environment Canada, 1992)

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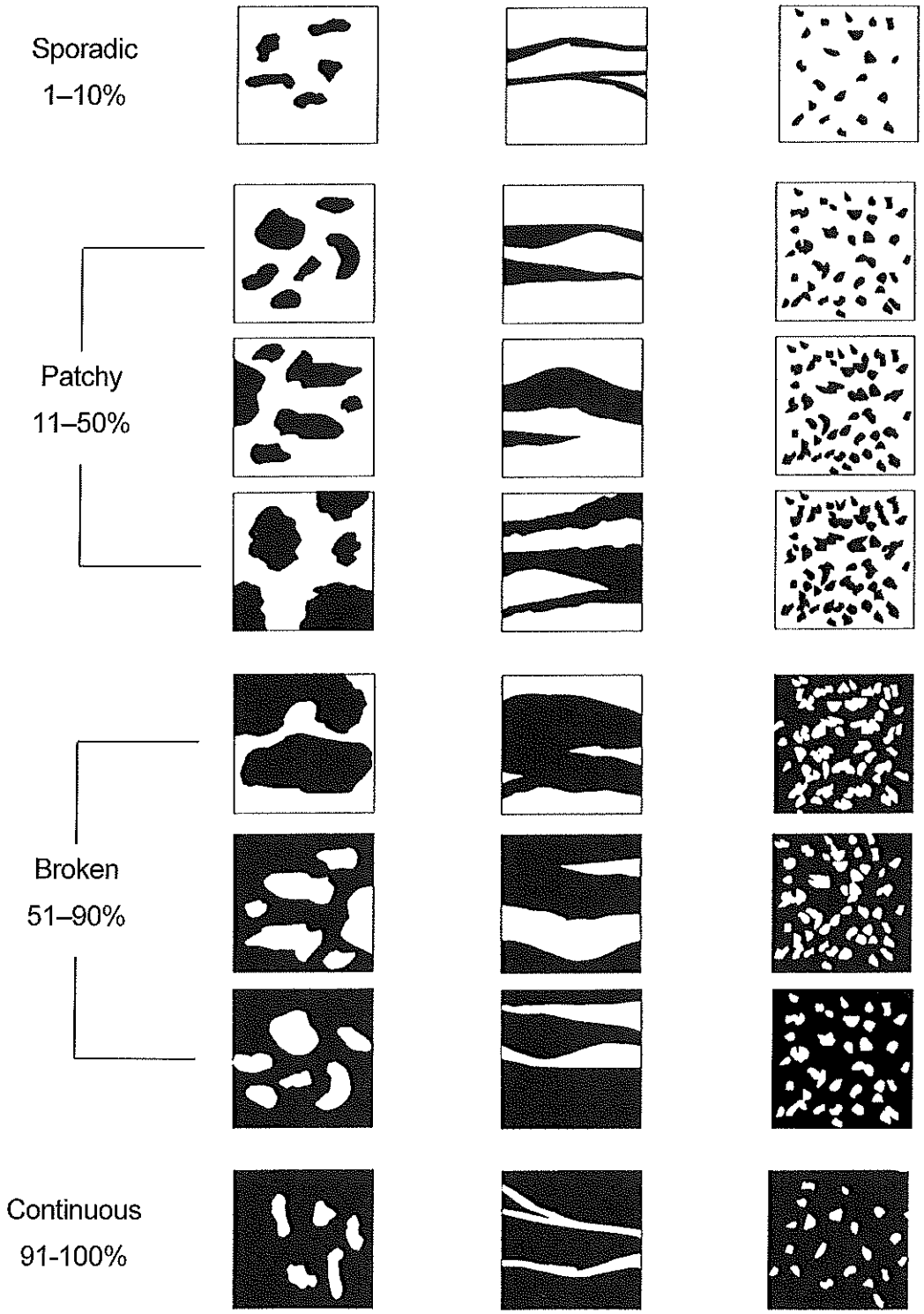
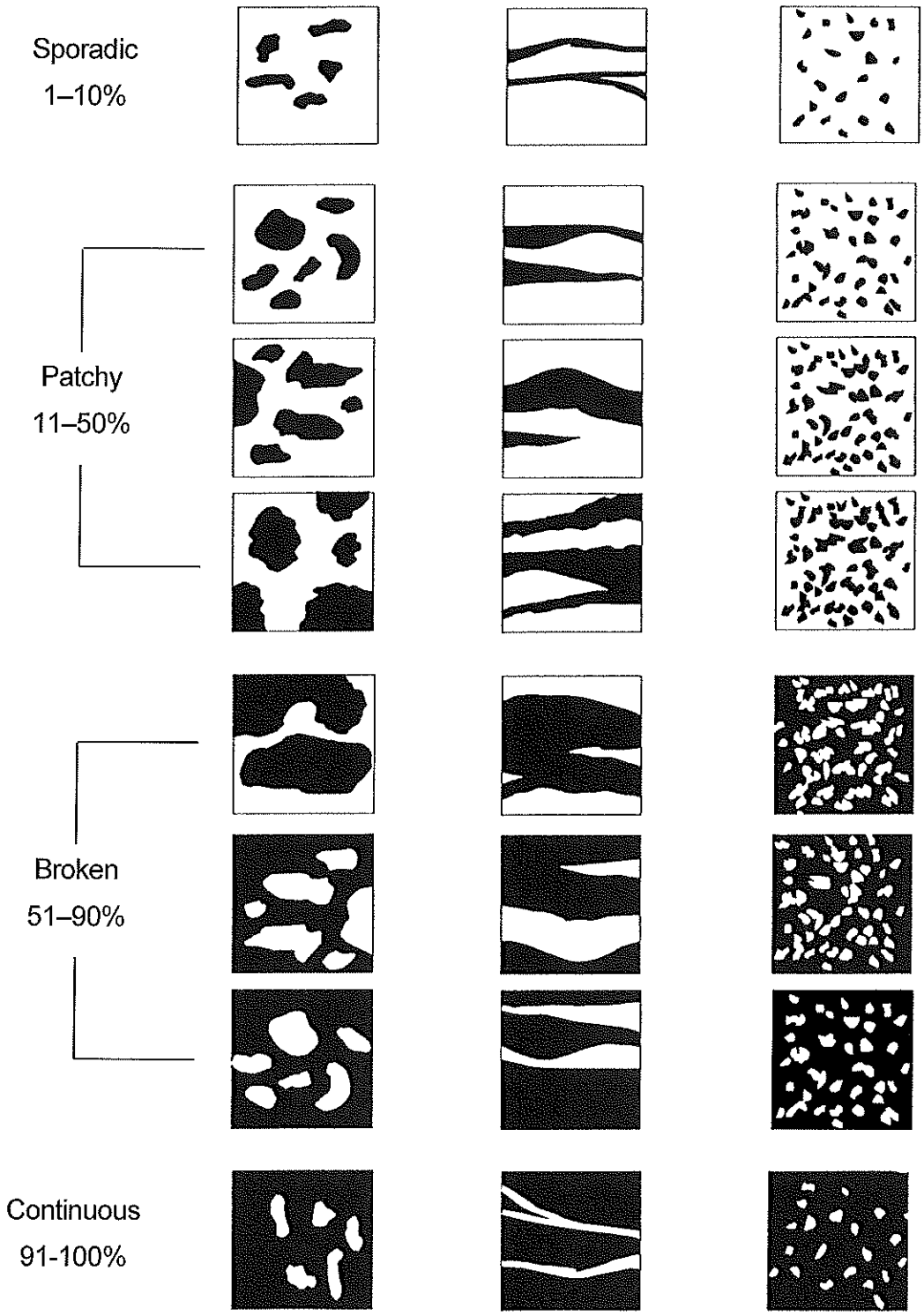
APPLIED SCIENCES, INC.

Visual aid for estimating oil distribution percentages



(Owens and Sergy, 1994)

Visual aid for estimating oil distribution percentages



(Owens and Sergy, 1994)

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: Left Bank / Right Bank / Island			low - mean - bankfull - overbank
Operations Division:		_____ hrs to _____ hrs	falling - steady – rising
Survey by: Foot / ATV / Boat / Helicopter / Overlook / _____	Sun / Clouds / Fog / Rain / Snow / Windy / Calm		Air Temp + / - ____ deg C

2 SURVEY TEAM #_____

Name	Organization	Signature

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:*_____ *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 1–10 m 10–100 m >100m 160m **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 _____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)
					Length	Width	Distrib.														
	MS	LB	UB	OB	m	m	%	TO	CV	CT	ST	FL	FR	MS	TB	PT	TC	SR	AP	NO	
A																					

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	cm	cm-cm	SAP	OP	PP	OR	OF	TR	NO	cm	B, R, S, N	Yes / No	

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

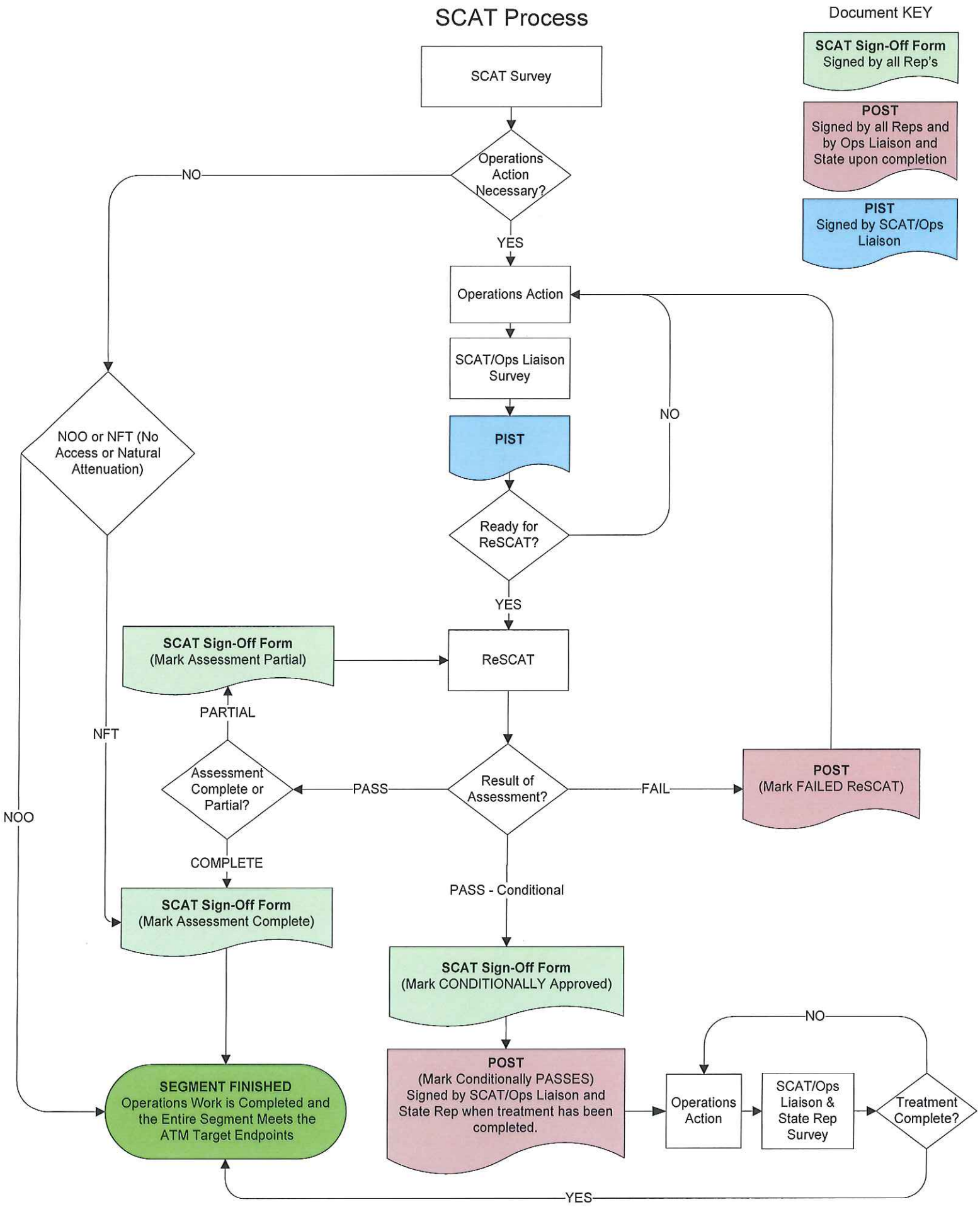
Overbank Survey Required Y / N Overbank Survey Completed Y / N Shoreline Survey Completed Y / N

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

Appendix H

SCAT Process Flow Chart

SCAT Process



Appendix I

Oil Removal Summary

Segment	Date/ Days Worked	People Working Per Day (avg)	Equipment		Oily Debris (bags)	PPE (bags) (bags)	Plastic (bags) (bags)	Trash (bags) (bags)	Super Sack (1 cubic yard) (1 Cubic Yard)	Woodchips (bags) (bags)	Cont. Wood (bags) (bags)
A1-RB, A2-RB, A3-RB	7/18-9/2 44	30	Hedgers 2 Backhoes Mini Excavator AirBoats	Weedeaters Chipper Hand Tools John Boats	729	16					
A1-LB, A2-LB, A3-LB	No Operations										
A3 ISLAND	8/11-9/3, 9/16-9/21 27	15	Grappler Mini Excavator Bob Cat 2 water bombies	UTV Hand Tools 2 Boats daily large excavator	314	31	51	34	41		
A4-RB,A5-RB	7/2-10/1 31	28	Hedgers Weedeaters Chipper	Hand Tools UTV	431	14	11	10	6	135 non-oily (claims issue)	
A4-LB,A5-LB	No operations										
A6 ISLAND	8/19-9/26 11	12	Hand tools 2 Mini Chainsaws	2 Chainsaws 1 boat daily	656	12	16	12	0		
A6-RB, A7-RB (Bank Flushing)	8/24 - 9/25 13	5	1 UTV 1 Trailer 1 Chipper	Hand Tools 2 Boats Wash Pumps	24	4					
A6-RB,A7-RB,A8-RB,A11-LB,A12-RB (A12-RB West of Clarks Fork Conflunece)	7/2-8/26 35	35	2 marookas 5 airboats Mini Excavator	1 bobcat 2 john boats 2 wood chippers	6700						
A6-LB, A7-LB, A8-LB	No Operations										
A9	No Operations										
A10	No Operations										
A11-RB	No Operations										
A12-RB East of Clarks Fork Confluence	No Operations										
Tower Island A12-LB,A13-LB, A14-LB,A15-RB,A16-RB	7/22-8/26 55	40	2 Bob Cats 1 Wood Chipper 1 Mini Excavator 3 UTVs 20 Weedeaters	2 UTV Trailers 4-9 Boats daily 40 Hand tools 1 Hellicopter	3459	106	125	75	30		
A13-RB	No Operations										
A15-LB	No Operations										

Segment	Date/ Days Worked	People Working Per Day (avg)	Equipment		Oily Debris (bags)	PPE (bags) (bags)	Plastic (bags) (bags)	Trash (bags) (bags)	Super Sack (1 cubic yard) (1 Cubic Yard)	Woodchips (bags) (bags)	Cont. Wood (bags) (bags)
A16-LB	No Operations										
A14-RB, A17-RB	7/22-8/26 34	40	UTV	Hand Tools	488						
A15-LB	No Operations										
A17-LB	No Operations										
A18-RB	7/25-8/9 14	45	UTV	Handtools	1868						
A18-LB	No Operations										
A19-RB	7/25-8/8/4 15	12	UTV Trailer	Handtools	195						
A19-LB	No Operations										
A20-RB	9/22-9/23 1	40	UTV	Handtools							
A20-LB	No Operations										
A21 ISLAND	7/22-8/12 18	41	1 Bob Cat 1 Wood Chipper 1 Mini Excavator 1 UTV	1 UTV Trailer 2-4 boats daily Hand tools 1 Hellicopter	703	31	19	32	10		
A21-LB	No Operations										
A21-RB, A22-RB ,A22-ISLAND	7/22-9/23 55	40	2 Mini Exc. UTV's 1 Mini Excavator	1 UTV Trailer 2-4 boats daily Hand tools	6000* *Estimated						
A22LB,A23-LB	8/22-8/28 6	20	UTVs Hand Tools UTV trailer	Weedeaters							
A23-RB	9/24-9/26 2	40	UTVs Hand Tools UTV trailer	Chipper Weedeaters 1 Bobcat							36
A24-RB	9/23-9/27 5	26	UTVs Hand Tools UTV trailer	Weedeaters	281	12					

Segment	Date/ Days Worked	People Working Per Day (avg)	Equipment		Oily Debris (bags)	PPE (bags) (bags)	Plastic (bags) (bags)	Trash (bags) (bags)	Super Sack (1 cubic yard) (1 Cubic Yard)	Woodchips (bags) (bags)	Cont. Wood (bags) (bags)
A24-LB	8/25-8/28 4	20	UTVs Hand Tools UTV trailer	Weedeaters	1						
A25-RB	9/24/2011 1	10	UTVs Hand Tools UTV trailer	Weedeaters							
A25-LB	9/1-9/26 3	20	UTVs Hand Tools UTV trailer	Weedeaters	4						
A26-RB, A27-RB, A28-RB	9/13-9/21 16	45	UTV's Hand Tools UTV Trailers	Weedeaters wood chipper	1138	44					
A26-LB	9/1-9/3 4	20	UTVs Hand Tools UTV trailer	Weedeaters							
A26 ISLAND	9/1-9/14 14	9	Hand Tools UTV	2 Boats daily UTV Trailer	149	5	7	6	0		
A28 ISLAND	8/25-8/30 6	31	Hand Tools UTVs Hand Tools	1-2 Boats daily Weedeaters	266	20	30	15	0		
A27-LB,A28-LB, A29-LB, A29 IS	8/11-8/23 13	30	Hand Tools	1-2 Boats daily	864						
B1-RB,B2-RB	7/22-9/22 38	24	5 UTVs Trailer Hand Tools	1 Mini Excavator Weedeaters Hedgers	1538	24					
(B1 ISLAND) B1-LB, B4-RB, B5-RB, B2-LB	8/12-9/22	40	4 UTV 2 UTV Trailers 3 Boats daily	Wood Chipper Mini Excavator 2 Bob Cats	4643	129	129	96	32		
B6-RB, B3, B7-RB B6-LB, B7-LB	8/11-8/18 7	12	3 UTVs Hand Tools	Hedgers Weedeaters	586	20	3	3	0		121
B7 ISLAND	9/16,9/17,8/29 3	12	2 UTV 2 UTV Trailers	3 Boats daily Hand Tools	915	27	44	22	0		
B4-LB, B5-LB	8/9-9/7 8	15	UTVs Hand Tools	Hedgers Weedeaters	436	18			0		121
B8-ISLAND	9/18-9/21 4	12	Hand Tools								
B8-LB, B9-LB, B10-LB, B11-LB, B12-LB	8/27-9/21 18	20	UTV's Hand Tools Trailers	Weedeaters	334	9					
B8-RB, B9-RB, B10-RB, B11-RB, B12-RB, B13-RB, B13-ISLAND, B14-RB, B15-RB, B15-ISLAND,B16-RB, B46-RB, B47-RB (Billings Flying Service)	7/18-8/25 37	150	1 Excavator 2 Morookas 4 Hagglunds 2 Mini Excavators Hedgers	2 Bobcats 1 Chipper Hand Tools Weedeaters UTV's	8744	235					
B13-LB	No Data	No Data	2 Morookas Hand Tools	Weedeaters							

Segment	Date/ Days Worked	People Working Per Day (avg)	Equipment		Oily Debris (bags)	PPE (bags) (bags)	Plastic (bags) (bags)	Trash (bags) (bags)	Super Sack (1 cubic yard) (1 Cubic Yard)	Woodchips (bags) (bags)	Cont. Wood (bags) (bags)
			UTV's								
B14-LB	No Operations										
B15-LB, B16-LB, B17-LB, B18-LB	9/3	linimal Operations									
B17-RB, B18-RB, B19-RB	8/26-9/3 4	8	UTVs Hand Tools Weedeaters	Hedgers	43	5					
B18-ISLAND B19-ISLAND	8/19-9/9, 9/15-9/23 21	18	1 UTV 1 UTV trailer	2 Boats daily Hand Tools	252	19	31	20	0		
B21-LB, B20-LB, B22-RB, B23-RB (B22 ISLAND)	9/5.9/6,9/27,9/28 4	12	2 boats		36	2					
B20-RB, B21-RB, B24-RB, B25-RB (Goat Farm)	7	18	Skidsteer Hand tools	UTVs	Mostly Claims Issues Minimal Debris						
B24-ISLAND	No Operations										
B25-RB	No Access										
B26 ISLAND	9/2 1	12	Hand Tools	2 Boats	17	1	1	1	0		
B26-RB	No Operations										
B24-LB, B25-LB, B26-LB, B27 (Norms Island)	8/1-8/30 28	30	UTVs Trailers Hand Tools	Hedgers Weedeaters	920	47					
B28-LB, B29-LB, B30-LB, B31-LB B3-LB (RiverFront Park)	8/17-9/7, 9/25 17	32	5 UTVs 2 Trailers Hand Tools	Hedgers Weedeaters	631	75					202
B28-RB, B29-RB, B30-RB, B31-RB	8/26, 8/28	5	Hand Tools								
B33-RB, B32-LB (ISLAND)	8/27-8/30 4	14	Hand Tools	2 Boats daily	25	3	4	3	0		
B31/B32 ISLAND	8/25-8/27 3	14	2 boats		11						
B33-LB	8/23, 8/26	5	Hand Tools Boats		15	2					
B32-RB	8/8, 8/26-8/30 8	10	Hand Tools		202	19					64 Bags
B32-LB, B34-LB, B35-LB	No Operations										

Segment	Date/ Days Worked	People Working Per Day (avg)	Equipment		Oily Debris (bags)	PPE (bags) (bags)	Plastic (bags) (bags)	Trash (bags) (bags)	Super Sack (1 cubic yard) (1 Cubic Yard)	Woodchips (bags) (bags)	Cont. Wood (bags) (bags)
B35-RB	8/23 1	5	Hand Tools		7	1					
B36-LB	8/22-9/1 5	7	Hand Tools UTVs Trailer	Weed eaters	120	6					
B37	No Operations										
B38-LB	8/26 1	5	Hand Tools		5	1					
B38-RB	No Operations										
B39-LB	8/26, 9/5 2	8	Hand Tools		12						
B39-RB	No Operations										
B40-ISLAND	8/27 1	12	Boats Hand Tools		31	1					
B40-RB	No Operations										
B40-LB	8/30 1	5	Hand Tools								
B41-RB	No Operations										
B41-LB	8/26 1	5	Hand Tools UTV		3						
B42-ISLAND	9/9-9/14 5	10	Hand Tools Jet Boats		22	2					
B42-LB	No Operations										
B42-RB	No Operations										
B43-ISLAND	EPA Contractor ER Conducted Cleanup-No Data Recorded										

Segment	Date/ Days Worked	People Working Per Day (avg)	Equipment		Oily Debris (bags)	PPE (bags) (bags)	Plastic (bags) (bags)	Trash (bags) (bags)	Super Sack (1 cubic yard) (1 Cubic Yard)	Woodchips (bags) (bags)	Cont. Wood (bags) (bags)
B43-LB	EPA Contractor ER Conducted Cleanup-No Data Recorded										
B43-RB	No Operations										
B44-RB	No Operations										
B44-LB	9/7 1	5	Hand Tools		9	1					
B45-RB	9/28 1	6	Hand Tools		6	2					
B45-LB	9/7 1	5	Hand Tools		1	1					
C1-LB	9/5 1/1	4	1 UTV 1 Trailer Clippers	Hand Tools	3						
C1-RB	No Operations										
C2-LB	9/19 1/1	5	1 UTV 1 Trailer Hedge trimmer	2 Boats Hand Tools	1						
C2-RB	No Operations										
C2-ISLAND	No Operations										
C3-LB	8/29 - 8/30 2	7	2 UTVs 2 Trailers Weedeaters	Hedgers	2	22					11
C4-RB, C4-LB, C5-RB	8/30 - 9/27 3	7	1 UTV 1 Trailer Weedeaters	1 Hedger Hand Tools	97	3					
C5-LB	No Operations										
C4 ISLAND	9/13-9/14 2	12	Hand Tools		17	2	2	2	0		
C5 ISLAND	9/10--9/12 3	12	Hand Tools		56	3	4	3	0		
C6-LB, C6-RB	No Operations										

Segment	Date/ Days Worked	People Working Per Day (avg)	Equipment		Oily Debris (bags)	PPE (bags) (bags)	Plastic (bags) (bags)	Trash (bags) (bags)	Super Sack (1 cubic yard) (1 Cubic Yard)	Woodchips (bags) (bags)	Cont. Wood (bags) (bags)
C6-ISLAND C7-ISLAND	No Operations										
C7-RB	No Operations										
C7-LB	9/1 - 10/10 5	7	1 UTV 1 Trailer Clippers	Hand Tools 3 Boats	199.5	6					
C8	No Operations										
C9	9/6 1	5	1 UTV 1 Trailer Clippers	Hand Tools	33	1					
C9-ISLAND	No Operations										
C10	9/6 - 9/7 2	5	1 UTV 1 Trailer Clippers	Hand Tools	3						
C11	9/11 - 9/23 13	8	Clippers Hand Tools	1 UTV 1 Trailer	3	1					
C12	9/12 - 10/12 4	9	1 UTV 1 Trailer Weedeaters	Hedgers Hand Tools 4 Boats	20.5	1					
C13	9/11 - 9/14 4	10	1 UTV Hand Tools		34	2					
C14	No Operations										
C15	No Operations										
C16	No Operations										
C17	No Operations										
C18	9/5, 9/30 2	5	1 UTV 1 Trailer Weedeaters	Hand Tools	3	1					
C19	9/10-9/30 5	15	1 UTV 1 Trailer Weedeaters	Hand Tools	55	5					
C18-ISLAND	9/22 1	5	Boats Hand Tools		1						

Segment	Date/ Days Worked	People Working Per Day (avg)	Equipment		Oily Debris (bags)	PPE (bags) (bags)	Plastic (bags) (bags)	Trash (bags) (bags)	Super Sack (1 cubic yard) (1 Cubic Yard)	Woodchips (bags) (bags)	Cont. Wood (bags) (bags)
C20	9/7 - 9/30 6	7	1 UTV 1 Trailer Hand Tools	Hedgers Weedeaters	24	7					
C21-LB	9/1 1	5	1 UTV 1 Trailer Hand Tools	Hedgers Weedeaters	4	1					
C21-RB	No Operations										
C22	9/10-10/12 5	15	1 UTV 1 Trailer Hedgers		27.5	5					
C23	9/7 - 9/26 3	4	1 UTV 1 Trailer Hedgers		8	2					
C24-RB	10/12 1	12	Boat Hand Tools		0.5						
C24-LB	No Operations										
C25	9/15, 10/1 2	10	1 UTV 1 Trailer 1 Hedger	2 boats Hand Tools	11.5	1					
C26	9/15, 9/16,9/22 3	10	1 UTV 1 Trailer 1 Hedger	2 boats Hand Tools	12	2					
C27	9/7, 9/28 2	4	1 UTV 1 Trailer	Hand Tools	3	1					
C28-RB	9/25, 10.14 2	8	1 UTV 1 Trailer	Hand Tools	4	1					
C28-ISLAND	9/13 1	12	1 UTV 1 Trailer	Hand Tools	8.25	1					
C28-LB	No Operations										
C29	No Operations										
C30 - C31	9/23 - 10/14 4	12	Hand Tools		8.75	1					
C32	10/3 1	5	3 Boats Hand Tools		1						
C33	10/11 1	12	3 Boats Hand Tools		2.2						
C34 -C35	9/21	9	1 UTV	2 Boats	4	1					

Segment	Date/ Days Worked	People Working Per Day (avg)	Equipment		Oily Debris (bags)	PPE (bags) (bags)	Plastic (bags) (bags)	Trash (bags) (bags)	Super Sack (1 cubic yard) (1 Cubic Yard)	Woodchips (bags) (bags)	Cont. Wood (bags) (bags)
	1		1 Trailer 2 Weedeaters								
C36	10/3 1	5	3 Boats Hand Tools		1						
C37 - C38	9/11, 10/4 2	8	2 UTVs 1 Trailer	Weedeaters Hand Tools	3						
C39 - C40	9/8 - 9/15 5	30	2 UTVs Hand Tools		67	14					
C41	10/12 1	8	Hand Tools Boats		0.25						
C42	9/25-10/5 3	10	1 Trailer Hand Tools	1 UTV 1-3 Boats	7						
C43	10/10	12	1 Trailer Hand Tools	1 UTV 1-3 Boats	0.5						
C44	10/5 - 10/11 2	9	Hand Tools 1-3 Boats		3.25						
C45	9/13 ,10/5 2	5	2 Boats Hand Tools		8	4					
C46 - C48	9/11 - 10/10 7	14	2 UTVs 2 Trailers Hand Tools	3 Boats	27.375	5					
C49	9/25 - 10/10 8	7	2 UTVs 1 Trailer Hand Tools	Weedeaters Hedgers 3 Boats	23.45	4					
C50	9/15 - 10/9 8	11	Hand Tools 3 Boats		28	4					
C51 - C52	9/8 - 10/10 5	14	1 Trailer 1 UTV Hand Tools	4 Boats Weedeaters	21.25	5					
C53	No Operations										
C54	10/5 - 10/10 3	9	1 - 3 Boats Hand Tools		4.25						
C55	9/16, 10/8 2	11	Hand Tools 3 Boats		4	1					
C56	9/16-10/9 4	10	Hand Tools 3 Boats		11.25	1					
C57	9/17, 10/8 2	10	Hand Tools 3 Boats		6	1					

Segment	Date/ Days Worked	People Working Per Day (avg)	Equipment		Oily Debris (bags)	PPE (bags) (bags)	Plastic (bags) (bags)	Trash (bags) (bags)	Super Sack (1 cubic yard) (1 Cubic Yard)	Woodchips (bags) (bags)	Cont. Wood (bags) (bags)
C58-RB	No Operations										
C58-LB	10/9 1	12	3 Boats Hand Tools		0.5						
C59-RB	No Operations										
C59-LB	10/9 1	12	3 Boats Hand Tools		0.5						
C60	No Operations										
C61	No Operations										
C62-LB	No Operations										
C62-RB	No Operations										
C62-ISLAND	9/18 1	10	1 UTV 1 Trailer Hedge Trimmer	1 Weedeater	2	1					
C63	No Operations										
C64-LB	No Operations										
C64-RB	No Operations										
C64-ISLAND	9/13 1	5	2 boats Hand Tools		1						
C65	9/9 ,9/17 2	5	1 Trailer 1 UTV Hand Tools	Weedeaters	3	1					