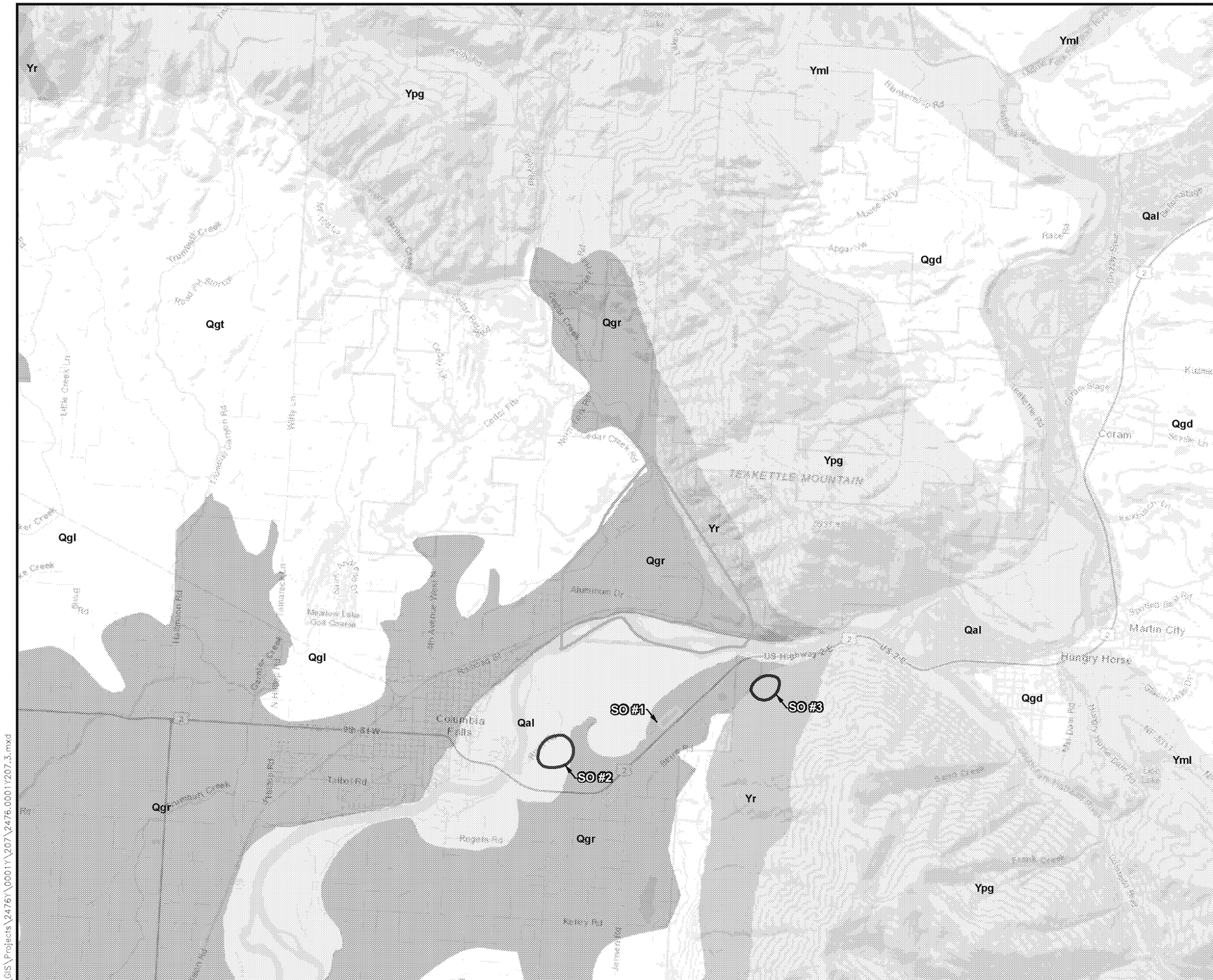


N

LEGEND

Qal	ALLUVIAL DEPOSITS (HOLOCENE)
Qgl	GLACIAL LAKE DEPOSIT (PLEISTOCENE)
Qgr	GLACIAL AND FLUVIOGLACIAL DEPOSITS (PLEISTOCENE)
Qgt	GLACIAL TILL (QUATERNARY)
Yml	LOWER MISSOULA GROUP (MIDDLE PROTEROZOIC)
Ypg	HELENA AND WALLACE FORMATIONS (MIDDLE PROTEROZOIC)
Yr	REVETT FORMATION (MIDDLE PROTEROZOIC) (TEAKETTLE MOUNTAIN)
SO #1	SOIL BACKGROUND REFERENCE AREA #1: GLACIAL TILL AND ALLUVIUM
SO #2	SOIL BACKGROUND REFERENCE AREA #2: FLUVIAL DEPOSITS AND RIVERWASH
SO #3	SOIL BACKGROUND REFERENCE AREA #3: MOUNTAINOUS LAND WITH GLACIAL DEPOSITS
	SITE BOUNDARY

2,500 0 2,500 5,000
Feet

Title:

FLATHEAD VALLEY SURFICIAL GEOLOGY

2000 ALUMINUM DRIVE
COLUMBIA FALLS, MONTANA

Prepared For:
COLUMBIA FALLS ALUMINUM COMPANY, LLC

ROUX

Compiled by: L.J.	Date: 27JUN18	FIGURE
Prepared by: M.S.R.	Scale: AS SHOWN	3
Project Mgr: L.J.	Project: 2476.0001Y006	
File: 2476.0001Y207.3.mxd		

V:\GIS\Projects\2476Y\0001Y\207\2476.0001Y207.3.mxd

N

LEGEND

- SITE BOUNDARY
- SO #1 — SOIL BACKGROUND REFERENCE AREA #1: GLACIAL TILL AND ALLUVIUM
- SO #2 — SOIL BACKGROUND REFERENCE AREA #2: FLUVIAL DEPOSITS AND RIVERWASH
- SO #3 — SOIL BACKGROUND REFERENCE AREA #3: MOUNTAINOUS LAND WITH GLACIAL DEPOSITS

SOURCE

UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE SOIL SURVEY

2,500 0 2,500 5,000 Feet

Title:

FLATHEAD VALLEY SURFACE SOIL TYPES

2000 ALUMINUM DRIVE
COLUMBIA FALLS, MONTANA

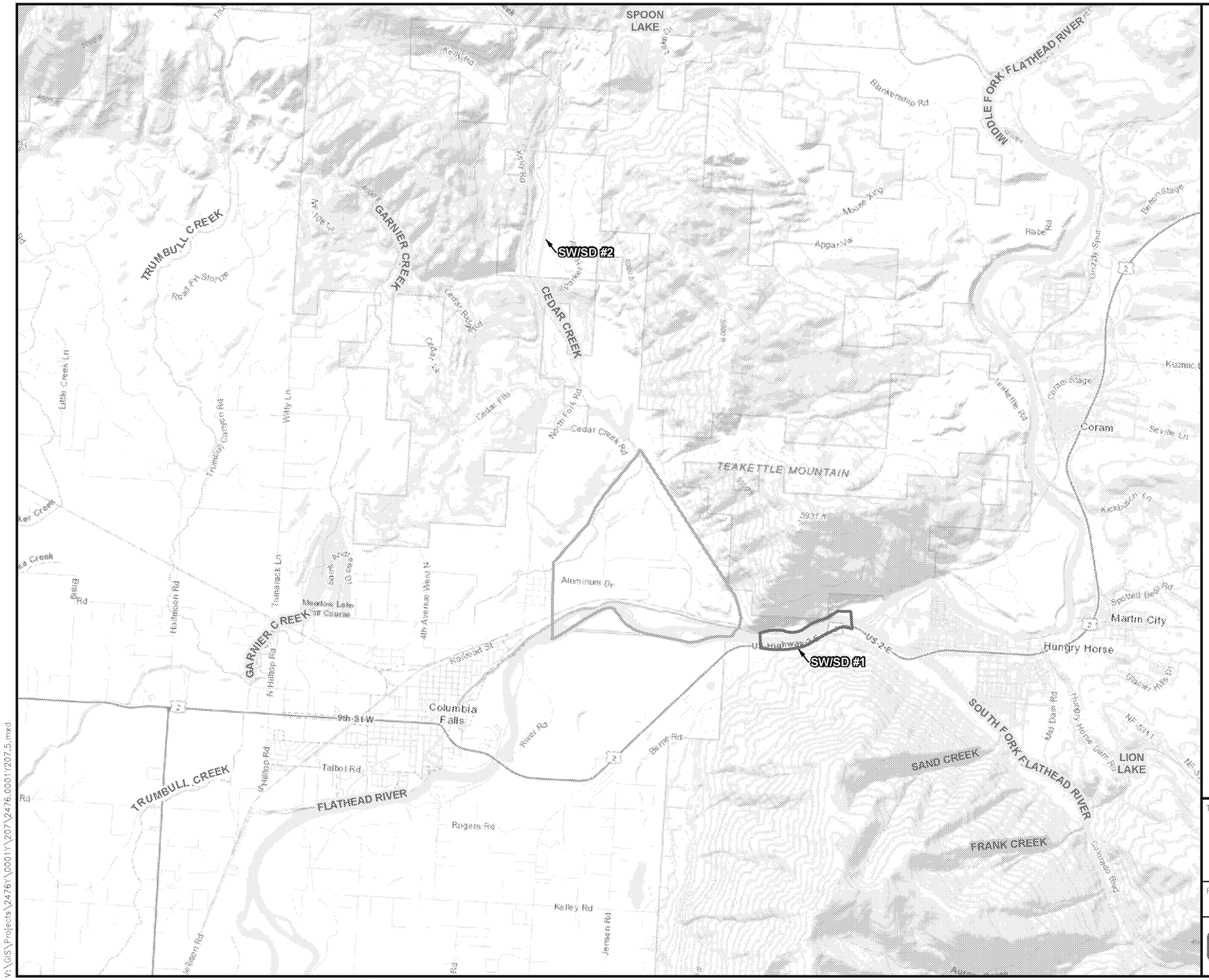
Prepared For:

COLUMBIA FALLS ALUMINUM COMPANY, LLC

ROUX

Compiled by: L.J.	Date: 27JUN18	FIGURE
Prepared by: M.S.R.	Scale: AS SHOWN	4
Project Mgr: L.J.	Project: 2476.0001Y006	
File: 2476.0001Y207.4.mxd		

V:\GIS\Projects\2476\0001Y\207\2476.0001Y207.4.mxd



LEGEND

- SITE BOUNDARY
- SW/SD #1 — SURFACE WATER/SEDIMENT BACKGROUND REFERENCE AREA #1: UPGRADIENT FLATHEAD RIVER
- SW/SD #2 — SURFACE WATER/SEDIMENT BACKGROUND REFERENCE AREA #2: UPGRADIENT CEDAR CREEK

2,500 0 2,500 5,000 Feet

Title:

FLATHEAD VALLEY SURFACE WATER BODIES

2000 ALUMINUM DRIVE
COLUMBIA FALLS, MONTANA

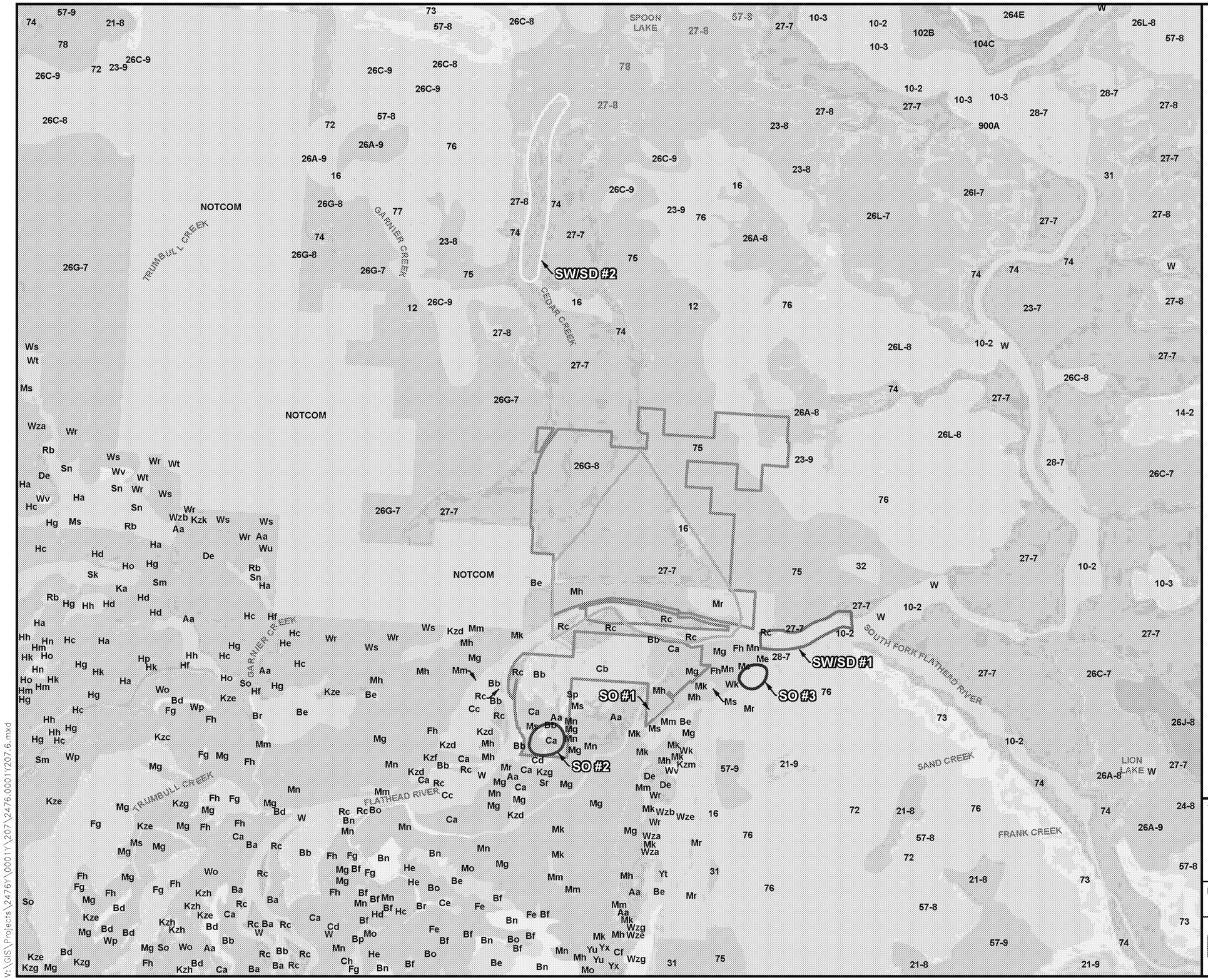
Prepared For:

COLUMBIA FALLS ALUMINUM COMPANY, LLC

ROUX

Compiled by: L.J.	Date: 26JUN18	FIGURE
Prepared by: M.S.R.	Scale: AS SHOWN	5
Project Mgr: L.J.	Project: 2476.0001Y006	
File: 2476.0001Y207.5.mxd		

V:\GIS\Projects\2476Y\0001Y\207\2476.0001Y207.5.mxd



N

LEGEND

- SITE BOUNDARY
- APPROXIMATE CFAC OWNED PROPERTY
- SW/SD #1 — SURFACE WATER/SEDIMENT BACKGROUND REFERENCE AREA #1: UPGRADIENT FLATHEAD RIVER
- SW/SD #2 — SURFACE WATER/SEDIMENT BACKGROUND REFERENCE AREA #2: UPGRADIENT CEDAR CREEK
- SO #1 — SOIL BACKGROUND REFERENCE AREA #1: GLACIAL TILL AND ALLUVIUM
- SO #2 — SOIL BACKGROUND REFERENCE AREA #2: FLUVIAL DEPOSITS AND RIVERWASH
- SO #3 — SOIL BACKGROUND REFERENCE AREA #3: MOUNTAINOUS LAND WITH GLACIAL DEPOSITS

SOURCE

UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE SOIL SURVEY

2,500 0 2,500 5,000 Feet

Title:

PROPOSED BACKGROUND REFERENCE SAMPLING AREAS

2000 ALUMINUM DRIVE
COLUMBIA FALLS, MONTANA

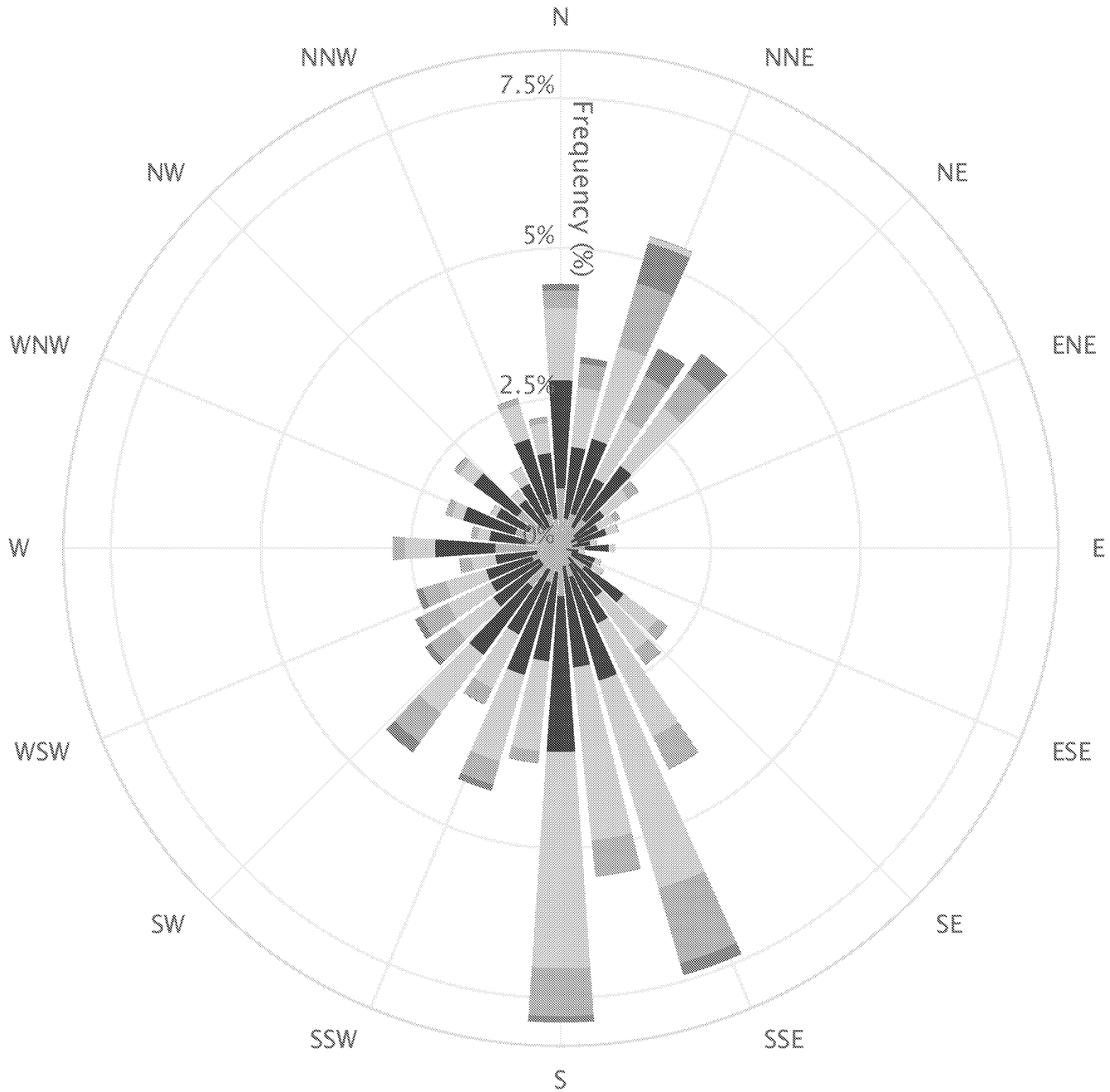
Prepared For:

COLUMBIA FALLS ALUMINUM COMPANY, LLC

ROUX

Compiled by: L.J.	Date: 27JUN18	FIGURE
Prepared by: M.S.R.	Scale: AS SHOWN	6
Project Mgr: L.J.	Project: 2476.0001Y006	
File: 2476.0001Y207.6.mxd		

V:\GIS\Projects\2476\\0001Y\207\2476.0001Y207.6.mxd



WIND SPEED (MPH)

- 1.3 – 4
- 4 – 8
- 8 – 13
- 13 – 19
- 19 – 25
- 25 – 32
- 32 – 39

SOURCE

Midwestern Regional Climate Center, cli–MATE: MRCC Application Tools Environment, Jan. 1, 1948 – June 20, 2018

Title: **WIND ROSE FOR KALISPELL/GLACIER PARK AIRPORT (MEAN WIND DIRECTION, 1948 – 2018)**

2000 ALUMINUM DRIVE
COLUMBIA FALLS, MONTANA

Prepared For:
COLUMBIA FALLS ALUMINUM COMPANY, LLC

ROUX

Compiled by: L.J.	Date: 21JUN18	FIGURE
Prepared by: M.S.R.	Scale: AS SHOWN	#
Project Mgr: M.R.	Project: 2476.0001Y006	
File: 2476.0001Y207.7.ppt		

V:\GIS\Projects\2476Y\0001Y\207\2476.0001Y207.7.ppt