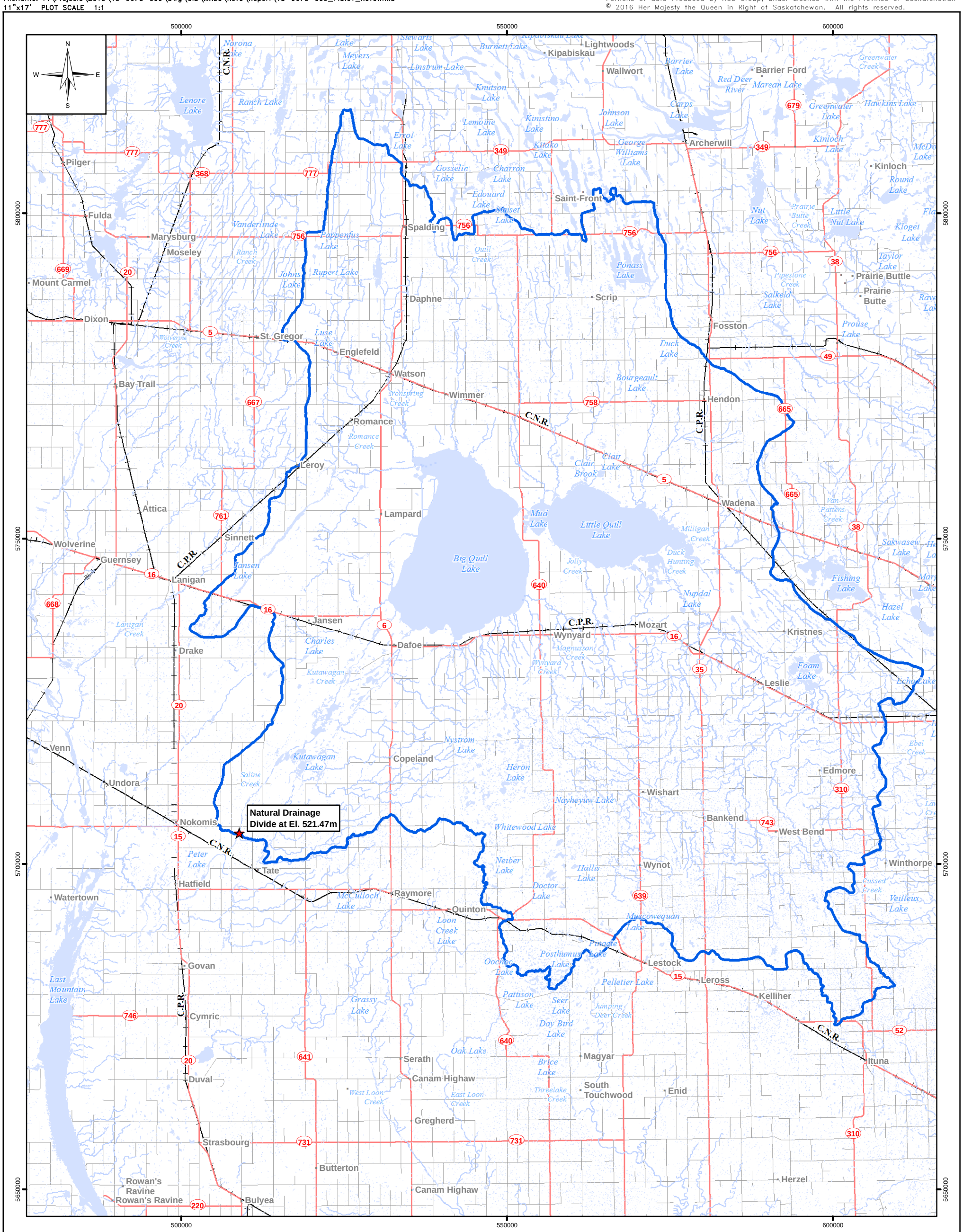
PLATES

FileName: P:\Projects\2015\15-0673-009\Dwg\GIS\MXDs\Rev0\Report\15-0673-009_Plate1_Rev0.mxd
11"x17" PLOT SCALE 1:1

Portions of data Produced by KGS Group, under Licence with the Province of Saskatchewan
© 2016 Her Majesty the Queen in Right of Saskatchewan. All rights reserved.



LEGEND:

- Natural Drainage Divide at El. 521.47m
- Major Highway
- Road
- Railway
- Steam
- Waterbody
- Quill Lakes Basin

NOTE
1. Approximate location of the natural drainage devide was derived using the Quill Lake LiDAR acquired August 2012 by the Saskatchewan Watershed Authority.
2. Wetland, Watercourse and Waterbody layers shown were obtained from NRCAN 1:50000 data.
3. All units are metric and in metres unless otherwise specified. Transverse Mercator Projection, NAD 1983, Zone 13. Elevations are in metres above sea level (MSL).

5 0 5 10 15
Kilometres

SCALE: 1:550,000 METRIC 11"x17"

NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	16/11/04	ISSUED WITH FINAL REPORT	DSB	MSW

REVISIONS / ISSUE

KGS GROUP CONSULTING ENGINEERS

Water Security Agency

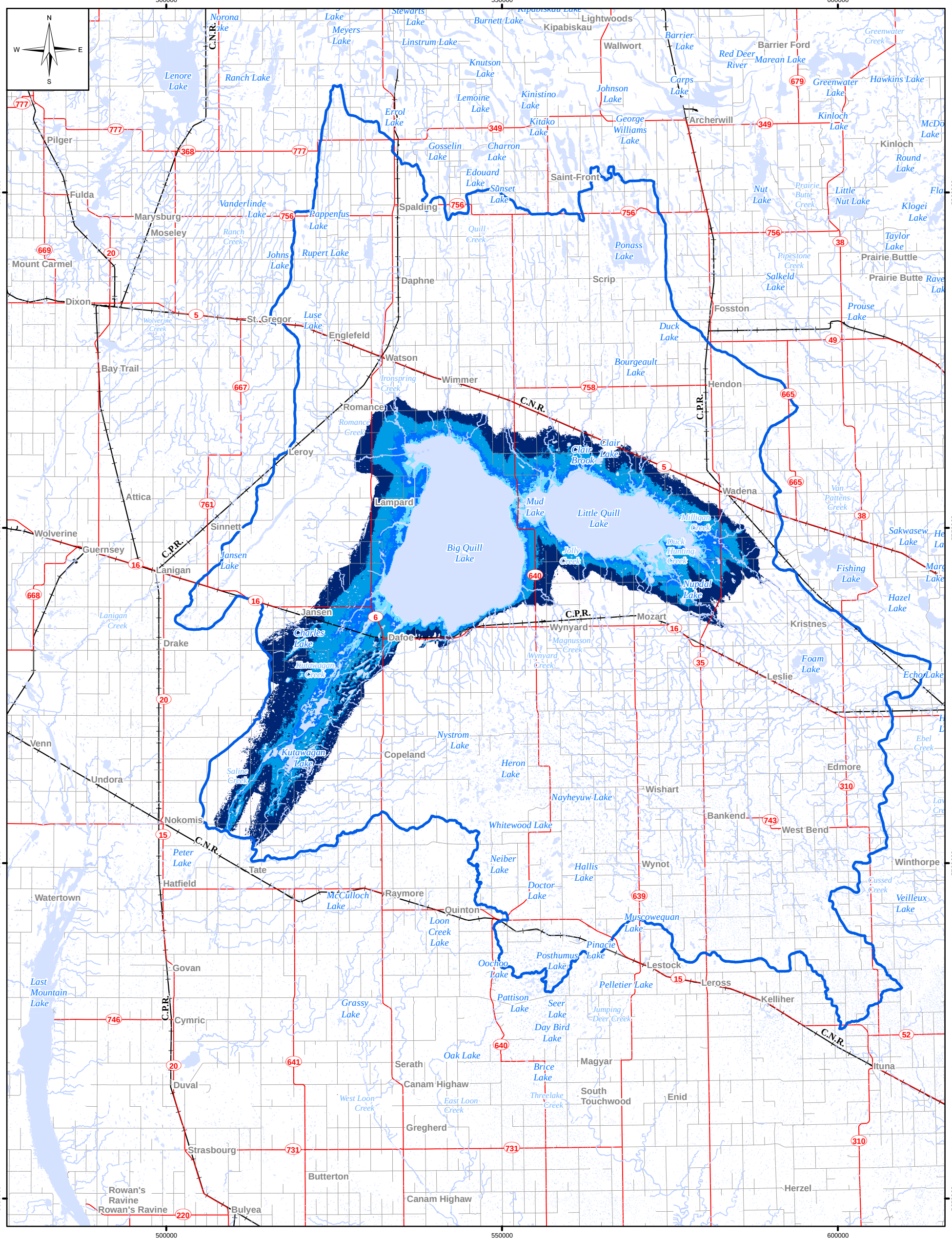
QUILL LAKES FLOOD MITIGATION STUDY

DRAINAGE BASIN MAP

NOVEMBER 2016 | PLATE 1 | REV: 0

FileName: P:\Projects\2015\15-0673-009\Dwg\GIS\MXDs\Rev0\Report\15-0673-009_Plate2_Rev0.mxd
11"x17" PLOT SCALE 1:1

Portions of data Produced by KGS Group, under Licence with the Province of Saskatchewan
© 2016 Her Majesty the Queen in Right of Saskatchewan. All rights reserved.



LEGEND:

- Major Highway
- Road
- Railway
- Steam
- Waterbody
- Quill Lakes Basin

Flood Level Elevation (m)

- 518 – 520
- 520 – 521.47
- 521.47 – 525
- 525 – 530
- >530

NOTES:
1. Flood level elevations are derived from the Quill Lakes LiDAR acquired August 2012 by the Saskatchewan Watershed Authority.
2. Wetland, Watercourse and Waterbody layers shown were obtained from NRCAN 1:50000 data.
3. All units are metric and in metres unless otherwise specified. Transverse Mercator Projection, NAD 1983, Zone 13. Elevations are in metres above sea level (MSL).

5 0 5 10 15
Kilometres

SCALE: 1:550,000 METRIC 11"x17"

NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	16/11/04	ISSUED WITH FINAL REPORT	DSB	MSW

REVISIONS / ISSUE

KGS GROUP CONSULTING ENGINEERS

Water Security Agency

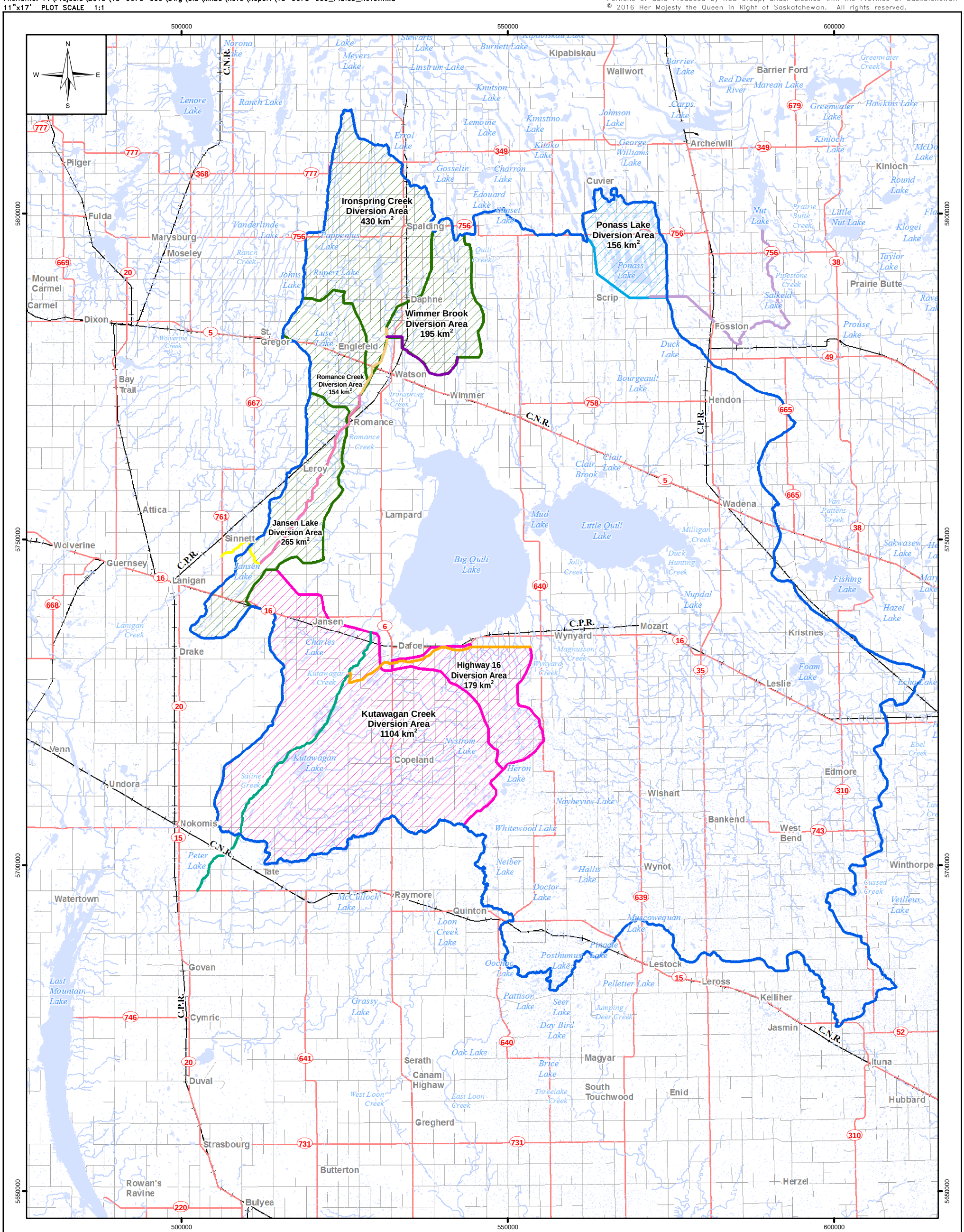
QUILL LAKES FLOOD MITIGATION STUDY

FLOODED AREA MAP

NOVEMBER 2016 | PLATE 2 | REV: 0

FileName: P:\Projects\2015\15-0673-009\Dwg\GIS\MXDs\Rev0\Report\15-0673-009_Plate3_Rev0.mxd
11"x17" PLOT SCALE 1:1

Portions of data Produced by KGS Group, under Licence with the Province of Saskatchewan
© 2016 Her Majesty the Queen in Right of Saskatchewan. All rights reserved.



LEGEND:

- Major Highway
- Road
- Railway
- Steam
- Waterbody
- Quill Lakes Basin
- Kutawagan Creek Diversion Area
- Lanigan Creek Diversio Area
- Ponass Lake Diversion Area
- Highway 16 Diversion
- Wimmer Brook Diversion
- Jansen Lake Diversion
- Romance Creek Diversion
- Ironspring Creek Diversion
- Ponass Lake Diversion
- Kutawagan Creek Diversion

NOTE
1. Diversion channels and drainage areas are based on Golder's January 2015 report.
2. Wetland, Watercourse and Waterbody layers shown were obtained from NRCAN 1:50000 data.
3. All units are metric and in metres unless otherwise specified. Transverse Mercator Projection, NAD 1983, Zone 13. Elevations are in metres above sea level (MSL).

5 0 5 10 15
Kilometres

SCALE: 1:550,000 METRIC 11"x17"

NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	16/11/04	ISSUED WITH FINAL REPORT	DSB	MSW

REVISIONS / ISSUE

KGS GROUP CONSULTING ENGINEERS

Water Security Agency

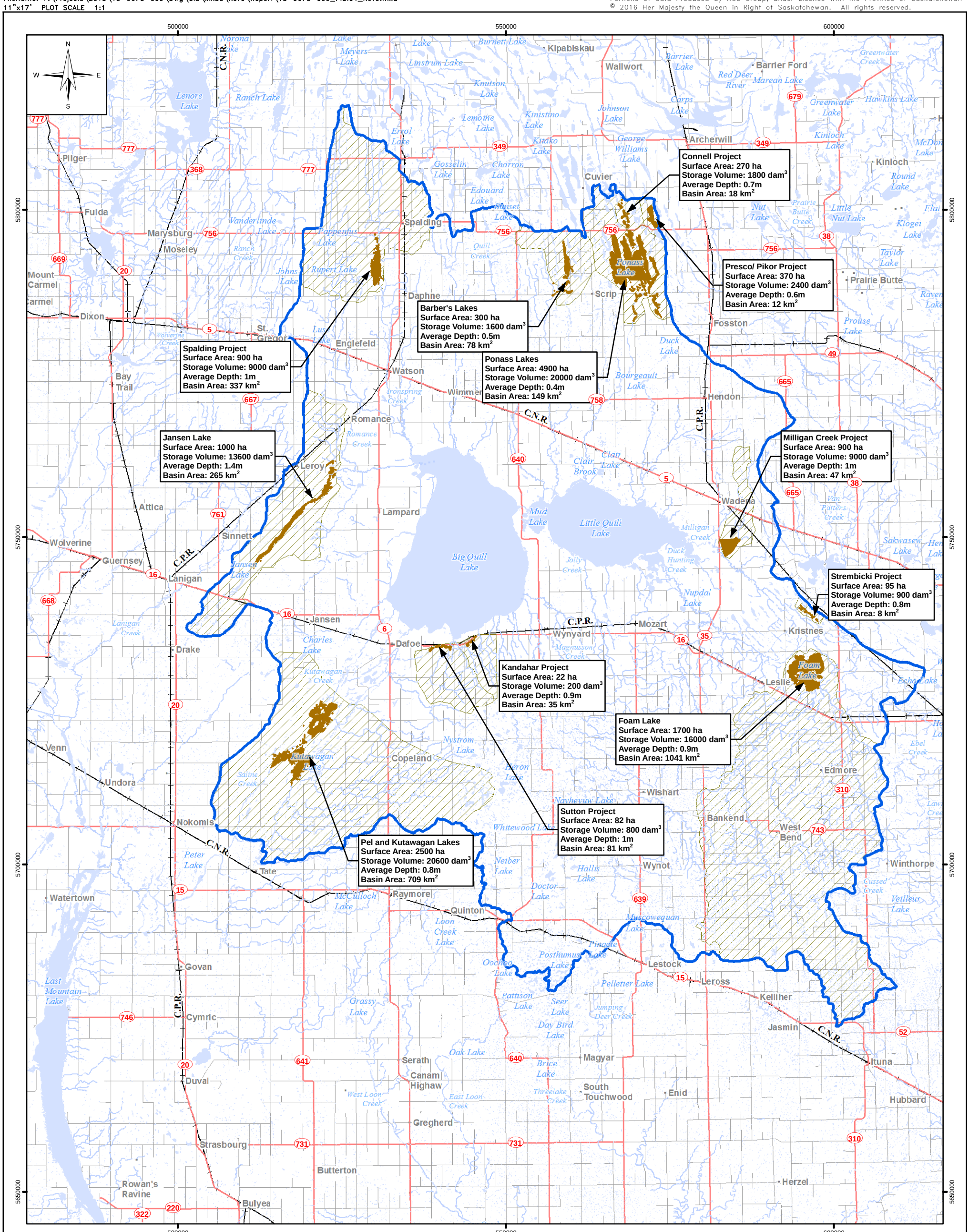
QUILL LAKES FLOOD MITIGATION STUDY

DIVERSION OPTIONS

NOVEMBER 2016 | PLATE 3 | REV: 0

FileName: P:\Projects\2015\15-0673-009\Dwg\GIS\MXDs\Rev0\Report\15-0673-009_Plate4_Rev0.mxd
11"x17" PLOT SCALE 1:1

Portions of data Produced by KGS Group, under Licence with the Province of Saskatchewan
© 2016 Her Majesty the Queen in Right of Saskatchewan. All rights reserved.



LEGEND:

- Major Highway
- Road
- Railway
- Steam
- Waterbody
- Potential Upland Storage Area
- Quill Lakes Basin
- Approximate drainage area of storage reservoirs

NOTE
1. Drainage areas are approximate. The drainage basin area for each reservoir was delineated using Canadian Digital Elevation Model from Natural Resources Canada (NRCAN).
2. Wetland, Watercourse and Waterbody layers shown were obtained from NRCAN 1:50000 data.
3. All units are metric and in metres unless otherwise specified. Transverse Mercator Projection, NAD 1983, Zone 13. Elevations are in metres above sea level (MSL).

5 0 5 10 15
Kilometres

SCALE: 1:550,000 METRIC 11"x17"

NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	16/11/04	ISSUED WITH FINAL REPORT	DSB	MSW

REVISIONS / ISSUE

KGS GROUP CONSULTING ENGINEERS

Water Security Agency

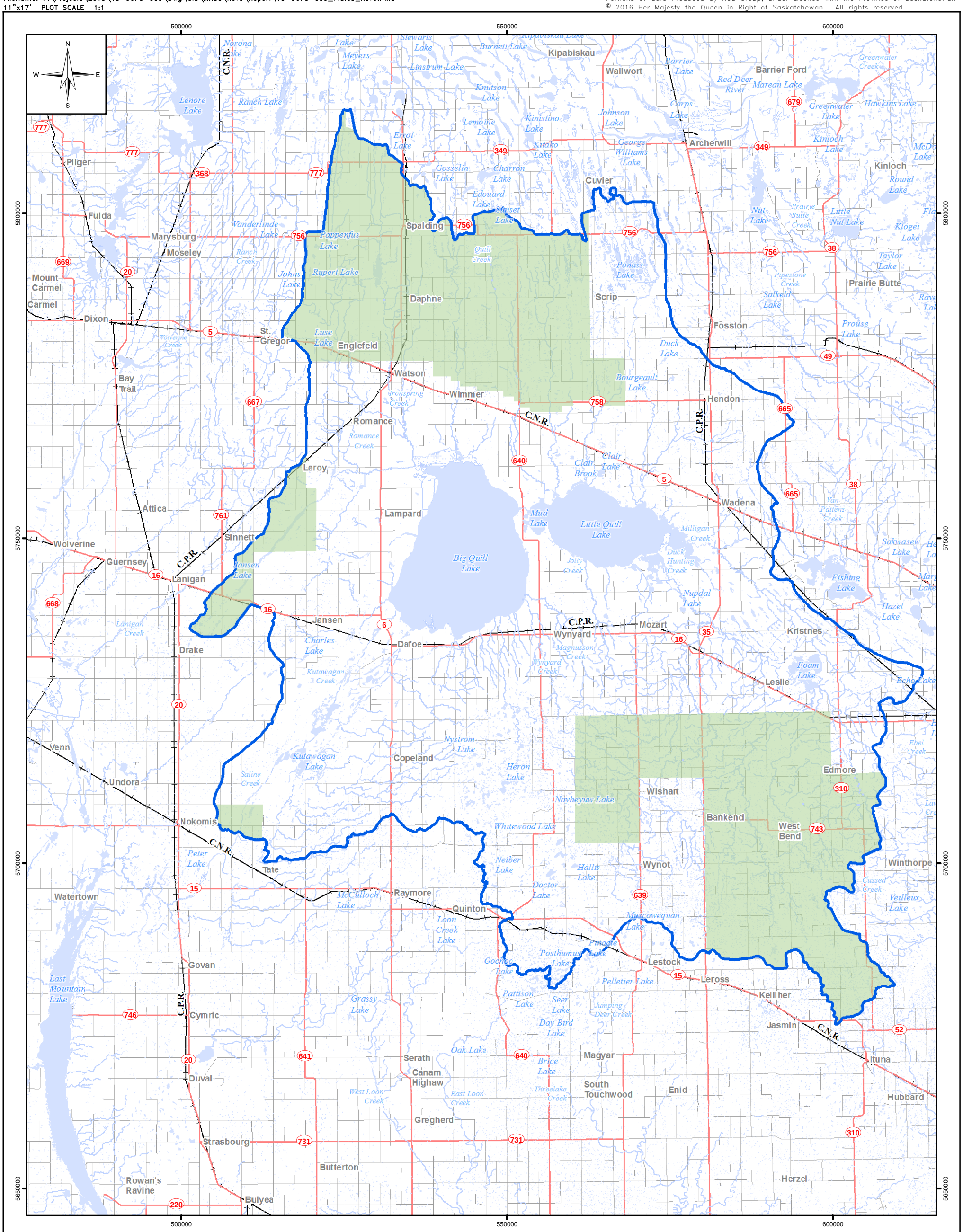
QUILL LAKES FLOOD MITIGATION STUDY

POTENTIAL UPLAND STORAGE AREAS

NOVEMBER 2016 | PLATE 4 | REV: 0

FileName: P:\Projects\2015\15-0673-009\Dwg\GIS\MXDs\Rev0\Report\15-0673-009_Plate5_Rev0.mxd
11"x17" PLOT SCALE 1:1

Portions of data Produced by KGS Group, under Licence with the Province of Saskatchewan
© 2016 Her Majesty the Queen in Right of Saskatchewan. All rights reserved.



LEGEND:

- Major Highway
- Road
- Railway
- Steam
- Waterbody
- Wetland
- Quill Lakes Basin
- Wetland Inventory

NOTE
1. Wetland, Watercourse and Waterbody layers shown were obtained from NRCAN 1:50000 data.
2. All units are metric and in metres unless otherwise specified. Transverse Mercator Projection, NAD 1983, Zone 13. Elevations are in metres above sea level (MSL).

5 0 5 10 15
Kilometres

SCALE: 1:550,000 METRIC 11"x17"

NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	16/11/04	ISSUED WITH FINAL REPORT	DSB	MSW

REVISIONS / ISSUE

KGS GROUP CONSULTING ENGINEERS

Water Security Agency

QUILL LAKES FLOOD MITIGATION STUDY

WETLAND INVENTORY

NOVEMBER 2016 | PLATE 5 | REV: 0