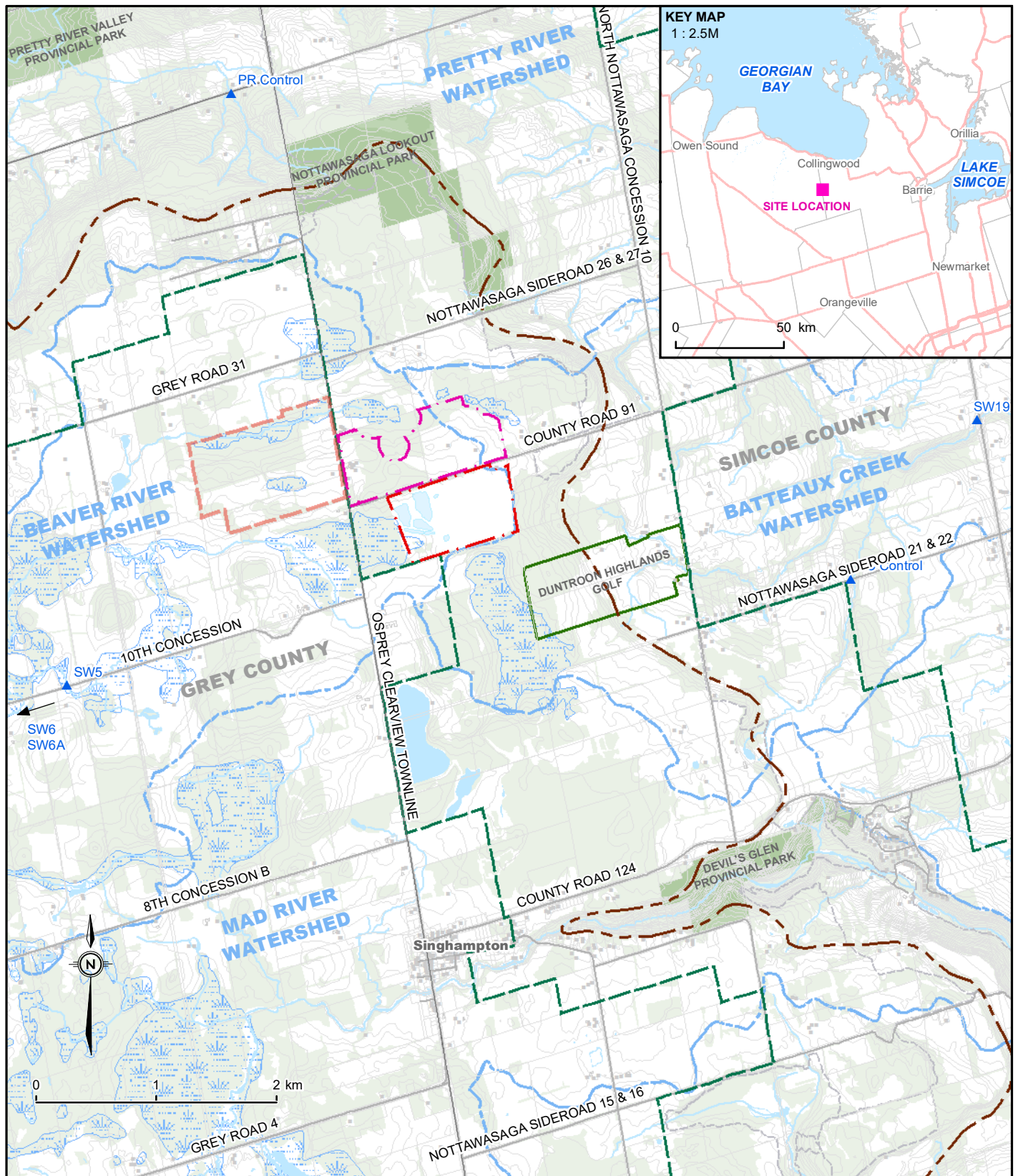


FIGURES





LEGEND

- EXTENSION QUARRY LICENSED AREA
- OLD QUARRY LICENSED AREA
- OSPREY QUARRY (ST. MARY'S CEMENT) LICENSED AREA
- NIAGARA ESCARPMENT COMMISSION POLICY AREA
- APPROX. NIAGARA ESCARPMENT

NAD 1983 UTM Zone 17N

SITE LOCATION MAP

2021 ANNUAL SUMMARY AND PERFORMANCE
REPORT
DUNTROON QUARRY
For Walker Aggregates Inc.

DATE: APRIL 2022

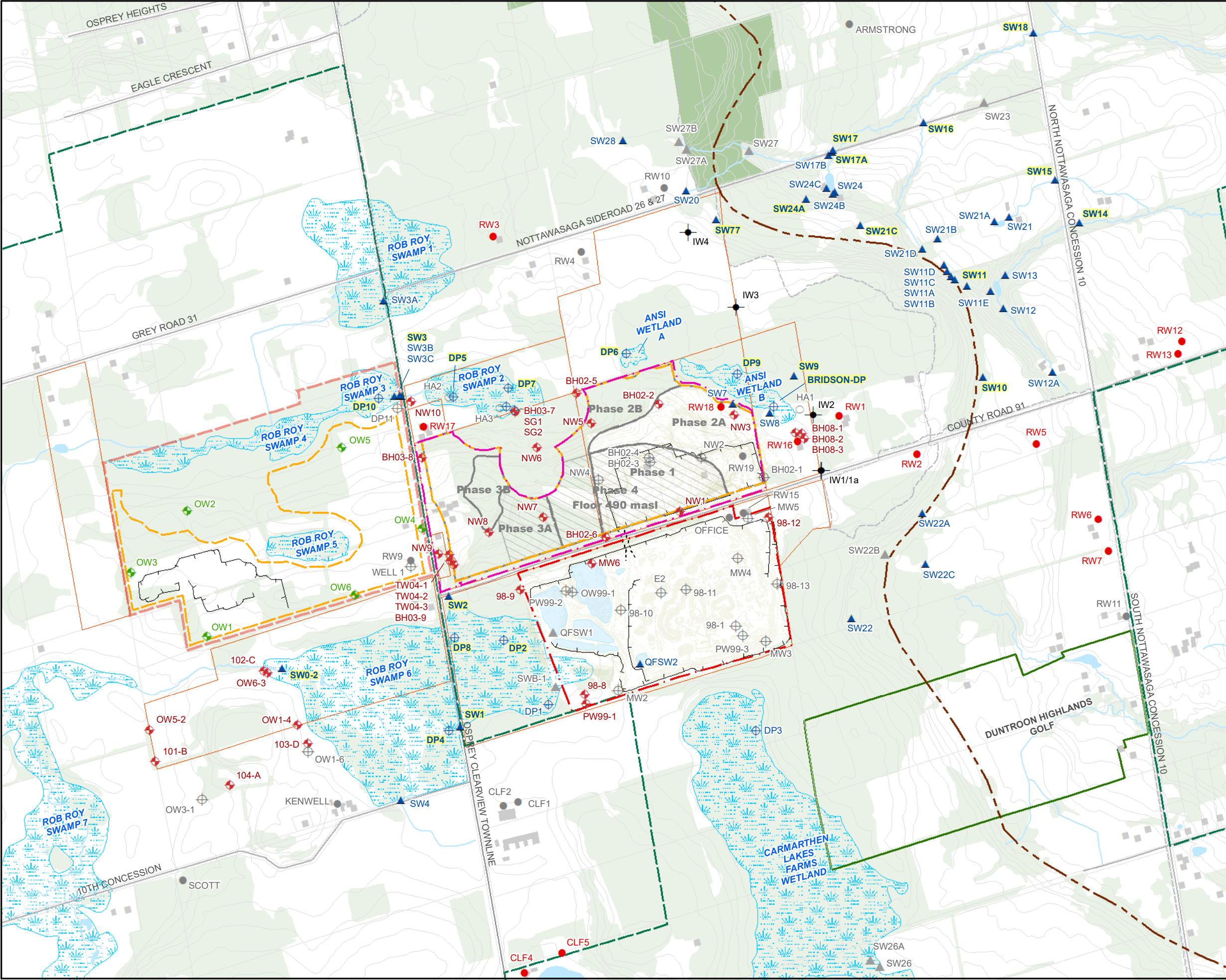
PROJECT: 111-53312-05



SCALE: 1 : 45,000

DRAWN BY: JLD

FIGURE No: **1**



LEGEND

- EXTENSION QUARRY LICENSED AREA
- LIMIT OF EXTRACTION
- OLD QUARRY LICENSED AREA
- OTHER LANDS OWNED BY WAI
- OSPREY QUARRY LICENSED AREA (ST. MARY'S CEMENT)
- APPROX. WORKING FACE
- NIAGARA ESCARPMENT COMMISSION POLICY AREA
- APPROX. NIAGARA ESCARPMENT
- WETLAND
- WOODLOT
- MONITORING WELL
- HISTORICAL MONITORING WELL
- OSPREY QUARRY MONITORING WELL
- INJECTION WELL
- DRIVEPOINT
- HAND-AUGER
- DOMESTIC WELL
- HISTORIAL DOMESTIC WELL
- SURFACE WATER STATION
- HISTORICAL SURFACE WATER STATION

NOTE:
YELLOW HIGHLIGHT INDICATES SURFACE WATER STATION IS ASSOCIATED WITH FLOW / TEMPERATURE TRIGGER, DRIVEPOINT IS ASSOCIATED WITH WATER LEVEL TRIGGER.

0 300 600 m

NAD 1983 UTM Zone 17N

SITE PLAN	
2021 ANNUAL SUMMARY AND PERFORMANCE REPORT DUNTROON QUARRY For Walker Aggregates Inc.	
DATE:	APRIL 2022
PROJECT:	111-53312-05
SCALE:	1 : 15,000
DRAWN BY:	JLD
FIGURE No: 2	



LEGEND

- EXTENSION QUARRY LICENSED
- LIMIT OF EXTRACTION
- OLD QUARRY LICENSED
- OTHER LANDS OWNED BY WAI
- OSPREY QUARRY LICENSED AREA (ST. MARY'S CEMENT)
- APPROX. WORKING FACE
- WETLAND
- SURFACE WATER STATION
- OLD QUARRY DISCHARGE
- EXTENSION QUARRY DISCHARGE

NOTE:
SITE AERIAL PHOTOGRAPH OBTAINED DURING
NOVEMBER 2021 DRONE SURVEY.

0 150 300 m

NAD 1983 UTM Zone 17N

2021 QUARRY CONFIGURATION

2021 ANNUAL SUMMARY AND PERFORMANCE REPORT
DUNTROON QUARRY
For Walker Aggregates Inc.


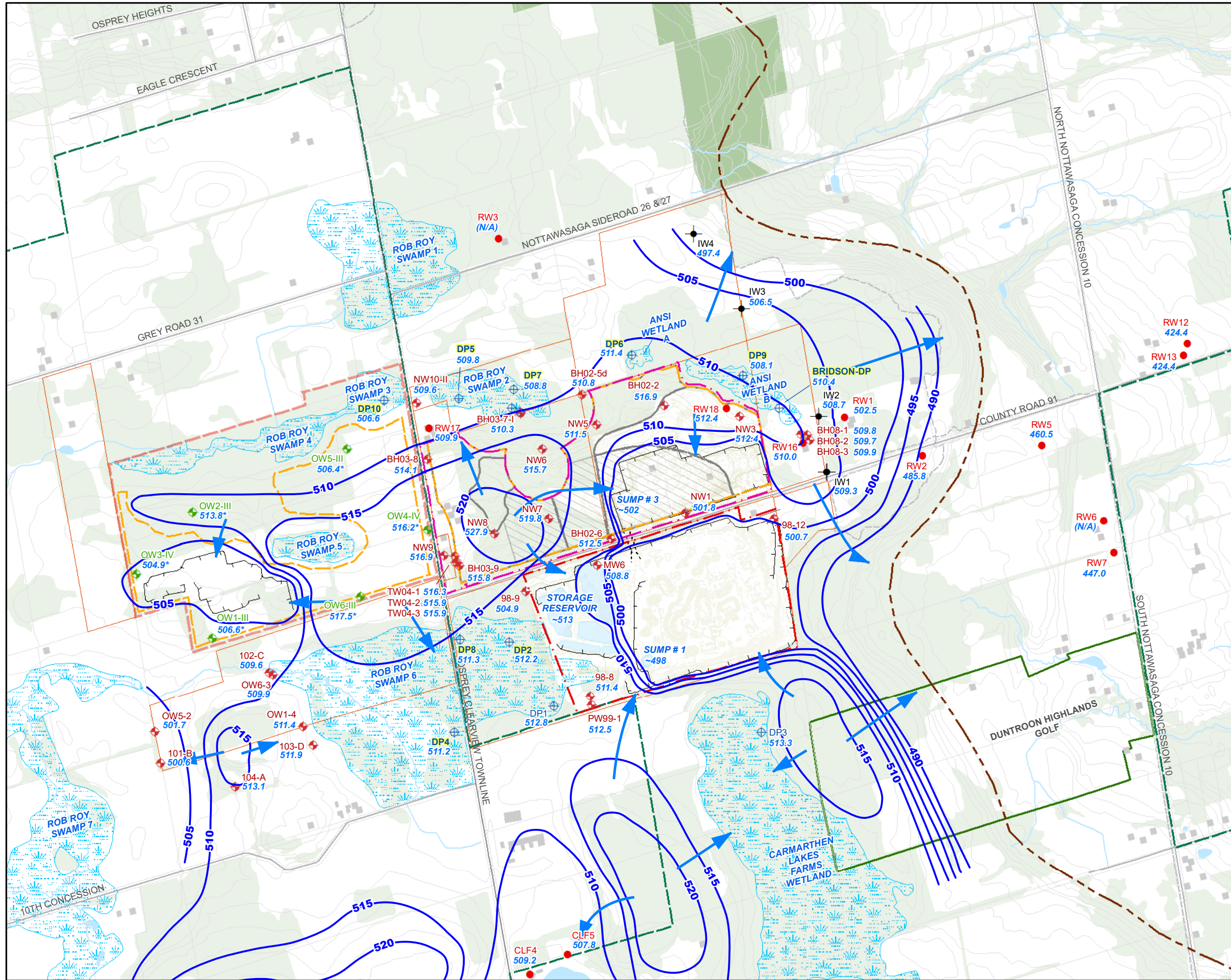
DATE:	APRIL 2022	 <p>55 KING STREET, SUITE 600 ST. CATHARINES, ON L7R 3H5 T 905-687-1771 F 905-687-1773 www.wsp.com</p>
PROJECT:	111-53312-05	
SCALE:	1 : 6,000	
DRAWN BY:	JLD	

FIGURE No:

2A

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



LEGEND

EXTENSION QUARRY LICENSED AREA

LIMIT OF EXTRACTION

OLD QUARRY LICENSED AREA

OTHER LANDS OWNED BY WAI

OSPREY QUARRY LICENSED AREA (ST. MARY'S CEMENT)

APPROX. WORKING FACE

NIAGARA ESCARPMENT COMMISSION POLICY AREA

APPROX. NIAGARA ESCARPMENT

WETLAND

WOODLOT

MONITORING WELL

OSPREY QUARRY MONITORING WELL

INJECTION WELL

DRIVEPOINT

DOMESTIC WELL

500.7 WATER LEVEL ELEVATION, APRIL 2021 (mASL)

INTERPRETED BEDROCK GROUNDWATER CONTOUR, 5m INTERVALS (mASL)

INFERRED GROUNDWATER FLOW DIRECTION

NOTES:
YELLOW HIGHLIGHT INDICATES DRIVEPOINT IS ASSOCIATED WITH WATER LEVEL TRIGGER.
* OSPREY QUARRY AVERAGE APRIL 2020 WATER LEVEL ELEVATIONS SHOWN.

N

0

300

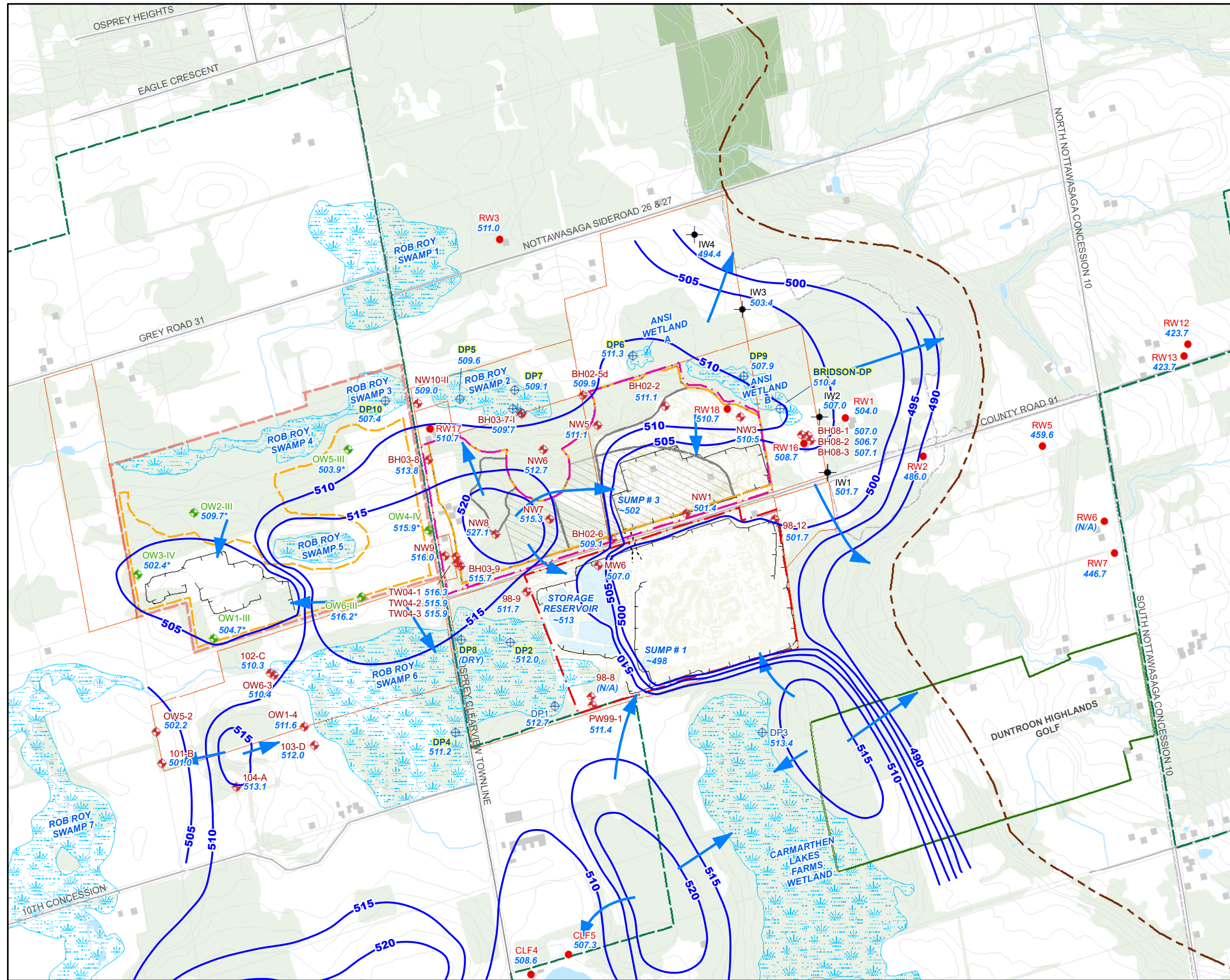
600 m

NAD 1983 UTM Zone 17N

BEDROCK GROUNDWATER LEVELS - APRIL 2021

2021 ANNUAL SUMMARY AND PERFORMANCE REPORT
DUNTROON QUARRY
For Walker Aggregates Inc.

DATE:	APRIL 2022	<div><div></div><div>55 KING STREET, SUITE 600 ST. CATHARINES, ON L7R 3H5 T 905-687-1771 F 905-687-1773 www.wsp.com</div></div>
PROJECT:	111-53312-05	
SCALE:	1 : 15,000	
DRAWN BY:	JLD	
FIGURE No:		3



LEGEND

EXTENSION QUARRY LICENSED AREA

LIMIT OF EXTRACTION

OLD QUARRY LICENSED AREA

OTHER LANDS OWNED BY WAI

OSPREY QUARRY LICENSED AREA (ST. MARY'S CEMENT)

APPROX. WORKING FACE

NIAGARA ESCARPMENT COMMISSION POLICY AREA

APPROX. NIAGARA ESCARPMENT

WETLAND

WOODLOT

MONITORING WELL

OSPREY QUARRY MONITORING WELL

INJECTION WELL

DRIVEPOINT

DOMESTIC WELL

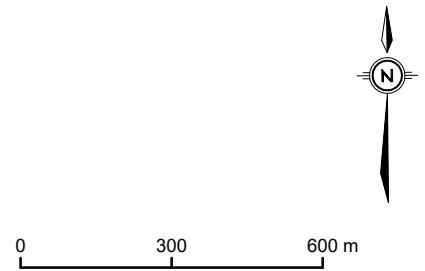
500.7

 WATER LEVEL ELEVATION, APRIL 2021 (mASL)

INTERPRETED BEDROCK GROUNDWATER CONTOUR, 5m INTERVALS (mASL)

INFERRED GROUNDWATER FLOW DIRECTION

NOTES:
YELLOW HIGHLIGHT INDICATES DRIVEPOINT IS ASSOCIATED WITH WATER LEVEL TRIGGER.
* OSPREY QUARRY AVERAGE OCTOBER 2020 WATER LEVEL ELEVATIONS SHOWN.



NAD 1983 UTM Zone 17N

BEDROCK GROUNDWATER LEVELS - OCTOBER 2021

2021 ANNUAL SUMMARY AND PERFORMANCE REPORT
DUNTROON QUARRY
For Walker Aggregates Inc.

DATE:
APRIL 2022

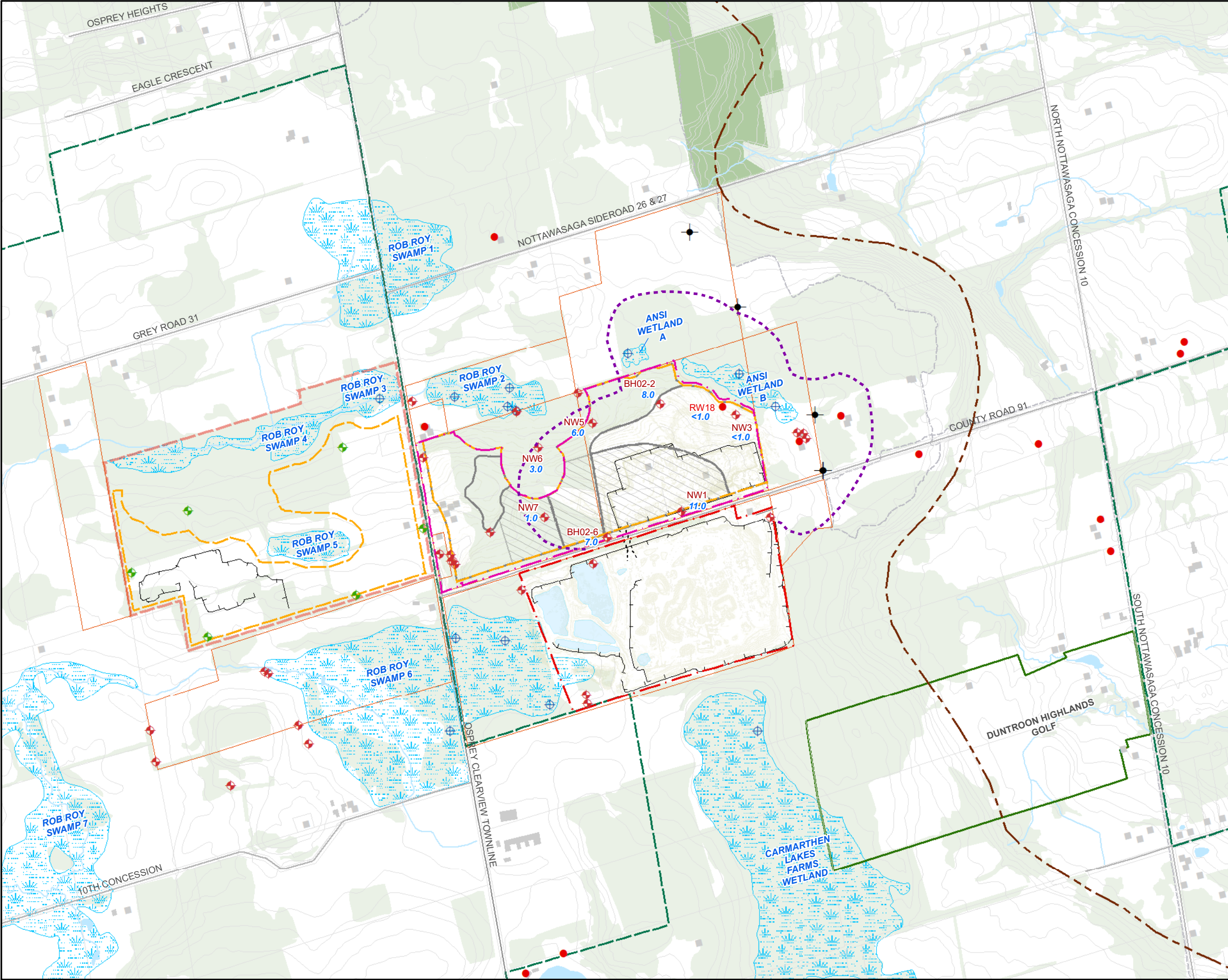
PROJECT:
111-53312-05

SCALE:
1 : 15,000

DRAWN BY:
JLD

55 KING STREET, SUITE 600
ST. CATHARINES, ON L7R 3H5
T 905-687-1771 | F 905-687-1773 | www.wsp.com

FIGURE No:
4



LEGEND

EXTENSION QUARRY LICENSED AREA

LIMIT OF EXTRACTION

OLD QUARRY LICENSED AREA

OTHER LANDS OWNED BY WAI

OSPREY QUARRY LICENSED AREA (ST. MARY'S CEMENT)

APPROX. WORKING FACE

NIAGARA ESCARPMENT COMMISSION POLICY AREA

APPROX. NIAGARA ESCARPMENT

WETLAND

WOODLOT

MONITORING WELL

OSPREY QUARRY MONITORING WELL

INJECTION WELL

DRIVEPOINT

DOMESTIC WELL

<1.0

ESTIMATED DRAWDOWN (m)

PREDICTED LIMIT OF DRAWDOWN DURING PHASE 2A EXTRACTION (WSP, SEPTEMBER 2021)

NOTE:
ONLY LOCATIONS WHERE DRAWDOWN IS ESTIMATED TO HAVE OCCURRED ARE LABELLED.

0

300

600 m

NAD 1983 UTM Zone 17N

N

INTERPRETED ZONE OF INFLUENCE

2021 ANNUAL SUMMARY AND PERFORMANCE REPORT
DUNTROON QUARRY
For Walker Aggregates Inc.

DATE: APRIL 2022

PROJECT: 111-53312-05

SCALE: 1 : 15,000

DRAWN BY: JLD

WSP

55 KING STREET, SUITE 600
ST. CATHARINES, ON L7R 3H5
T 905-687-1771 | F 905-687-1773 | www.wsp.com

FIGURE No:

5

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