

Form C2 Supporting Document

Application for a Clearing Permit – Department of Environment Regulation

Outline of Proposed Operation and Site Maps

Date: 20th May 2015

Applicant: Auscarbon Pty Ltd **Company Contact:** Geoff McArthur – M: 041 255 6984

Properties: Victoria Lots 803, 801, 804 and 7876

Proposed Project: Felling and Excavation of up to 25 individual trees for the collection of Biomass data to be used for Scientific-Environmental purposes.

Operational Details of Project:

Auscarbon Pty Ltd is a company which is primarily developing biodiverse environmental vegetation establishments as carbon sequestration sinks. Since 2008, Auscarbon has established approximately 10,000 hectares over 6 properties in the Morawa and Perenjori Shires.

An essential part of a carbon sequestration project is the need to collect actual vegetation data to develop biomass growth models and continuously improve the accuracy of the growth model. Whilst Auscarbon can regularly collect data from its young plantations, there is very little opportunity to collect older age and rotation-end data. This is the primary objective of this project – a one-off program to collect relevant biomass data of larger trees, more representative of the end-of rotation period. The trees will be sampled at a very low intensity from remnant forest areas. The sampling target is 20-25 trees that will be sampled within a large area (approximately 157 ha). In most cases the land around the remnant areas have been established with native trees and shrubs as part of Auscarbon's development of carbon sequestration sinks.

In addition to internal use of the data from the project, the data has high level importance as inclusion into the CSIRO's current program of widening the scope of the national biomass database which is behind the Commonwealth Department of Environment biomass model (FullCAM). Auscarbon has entered into a collaborative arrangement with CSIRO Land and Water to provide biomass data of larger-diameter and older trees from lower-rainfall regions. Further details of the Auscarbon-CSIRO project and the development of the Commonwealth's FullCAM model can be obtained from CSIRO's Dr. Keryn Paul in Canberra on 02 6246 4227 or Keryn.Paul@csiro.au.

The proposed project has the following operational steps:

1. Identify trees of target species and sizes within specified sample zones.
2. Record detailed sample location - GPS, soil types, topographic position and other environmental information.
3. Take photographs and measurements of the standing trees (stem diameter, tree height, and crown dimensions).
4. Fell trees and breakdown to weigh 100% of stems, branches and foliage (the above-ground biomass).
5. With an excavator or backhoe carefully dig around stump and extract roots. The topsoil will be separated from sub-soil. All extracted roots and stump will be weighed (the below-ground biomass).
6. Samples of stemwood, branchwood, foliage and root material will be taken for moisture content and possibly wood density measurement.
7. The excavated hole will be filled in (topsoil on top) and sampled debris spread over the site.

NOTE:

No adjacent trees will be sampled.

Trees will be felled with objective of not damaging adjacent trees.

No cleared tracks will be established to trees.

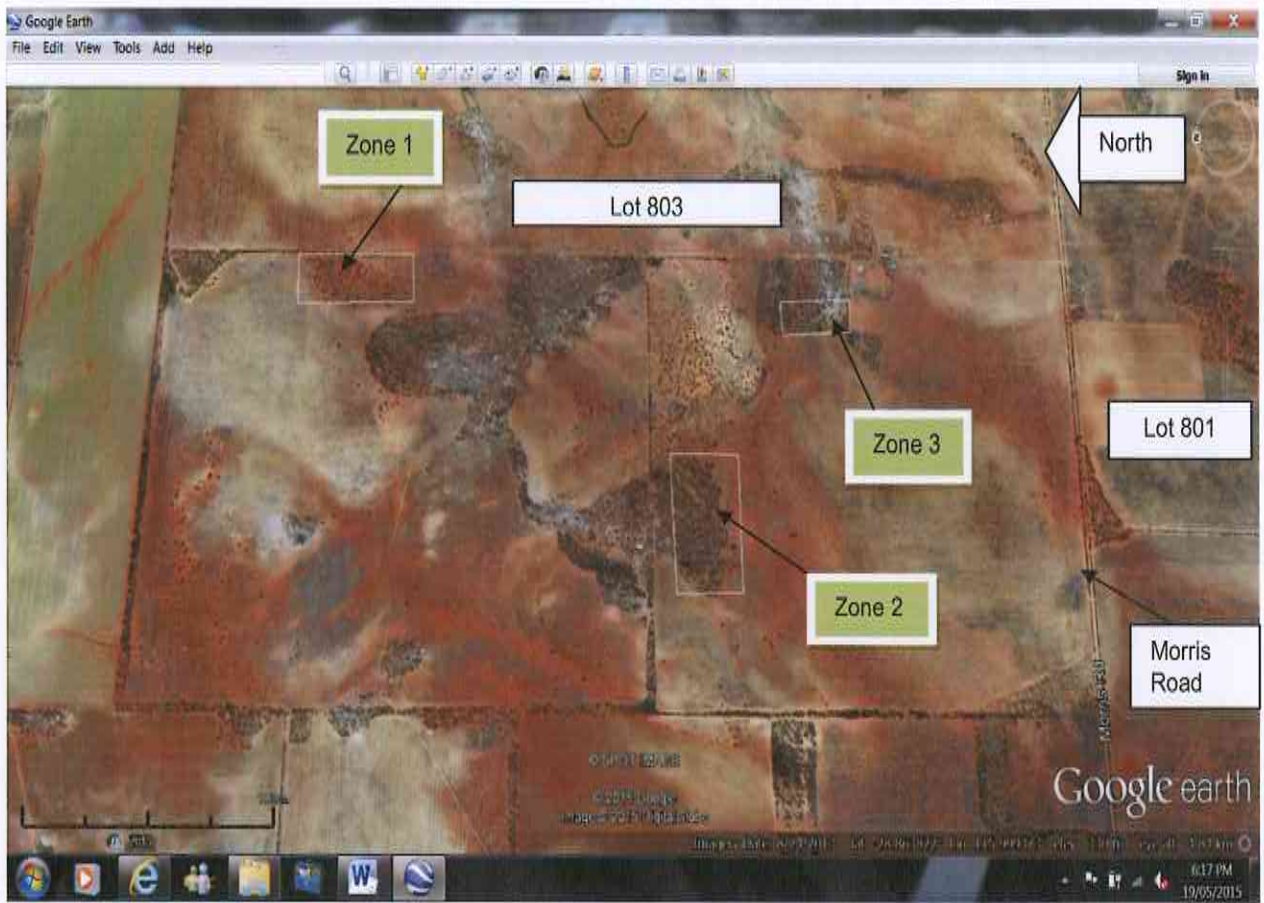
Details of Sampling Sites

Property Lot No.	Sample Zone (# as per map)	GPS Coordinates North	GPS Coordinates South	Sample Zone Remnant Vegetation Area (approx. ha)	Estimated Tree Samples per Zone (#)
Lot 803	1	S 28.85626 E 116.01813 NE fence corner	S 28.86294 E 116.01702 SW extremity	(500 x 200 m) 10 ha	2
	2	S 28.87336 E 116.00636 North extremity	S 28.87429 E 116.00640 South extremity	(500 x 275 m) 13.75 ha	2
	3		S 28.87640 E 116.01488 SW extremity S 28.87810 E 116.01511 SE extremity	(300 x 125 m) 3.75 ha	2
Lot 801	4	S 28.89926 E 116.00124 NW extremity	S 28.90167 E 116.00434 SE extremity	(315 x 275 m) 8.66 ha	2 – 3
Lot 804	5	S 28.89717 115.98788 NE corner S 28.89757 E 115.98151 West extremity	S 28.89981 E 115.99066 SE corner	(900 x 350 m) 31.5 ha	3 – 4
Lot 7876	6	S 29.22167 E 116.34903 North extremity	S 29.22465 E 116.35030 South extremity	(400 x 325 m) 13.0 ha	3 – 4
	7	S 29.22588 E 116.35027 NE corner	S 29.23751 E 116.34848 South extremity	(525 x 1250 m) 65.63 ha	4 – 5
	8	S 29.23766 E 116.34799 North extremity	S 29.24058 E 116.34879 SE corner	(330 x 330 m) 10.89 ha	2 – 3
Summary of Totals	8 sample zones			Gross Sample Zone Area 157.18 ha	20 – 25 samples trees

The number of sampled trees per zone may vary from that outlined above, but the total number of trees sampled will be approximately 25.

Maps Showing Properties and Proposed Sampling Sites

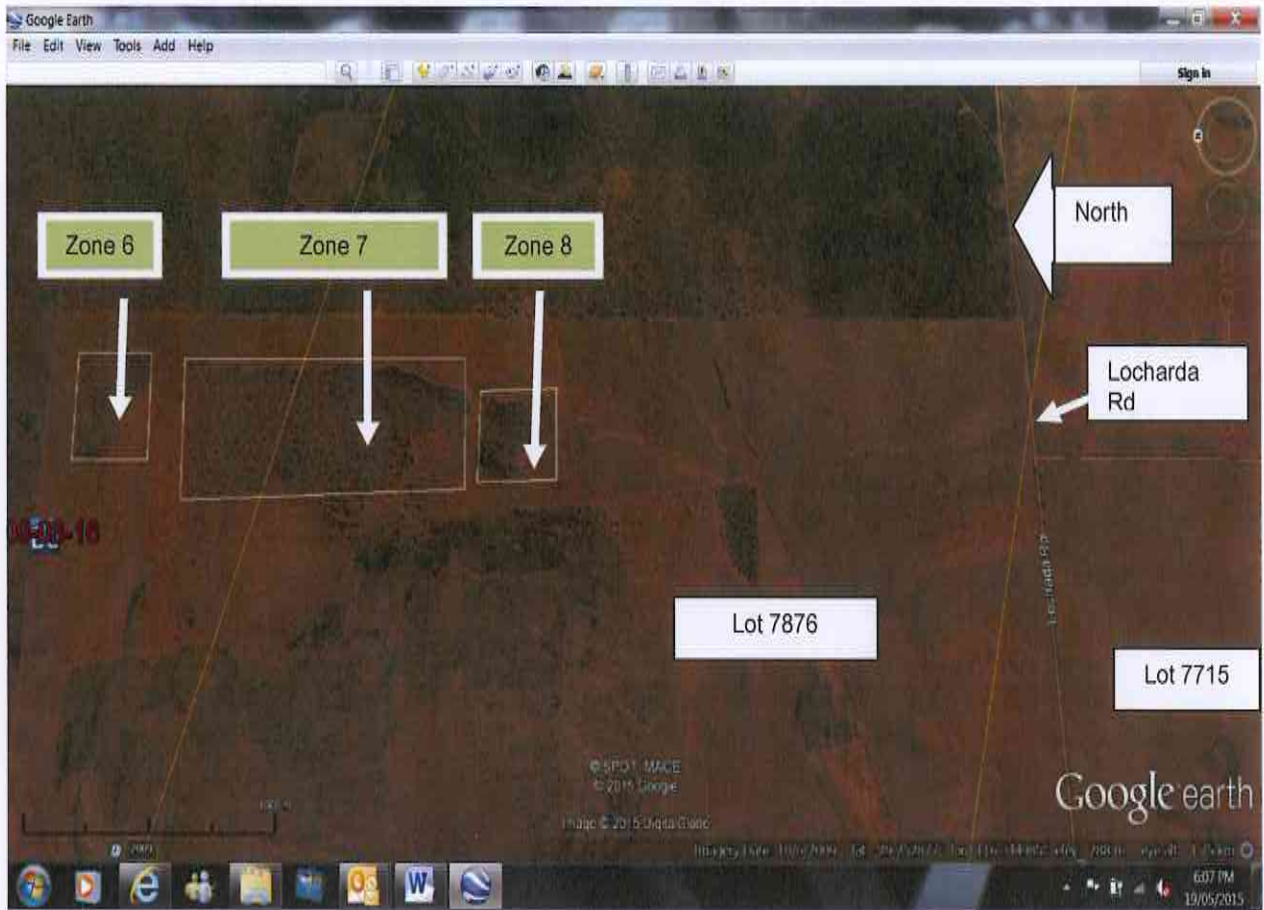
Lot 803 – includes 3 sample zones



Lots 801 and 804 – 2 sample zones



Lot 7876 - 3 sample zones



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WESTERN



AUSTRALIA

REGISTER NUMBER 804/DP63623	
DUPLICATE EDITION 1	DATE DUPLICATE ISSUED 11/12/2009

DUPLICATE CERTIFICATE OF TITLE
UNDER THE TRANSFER OF LAND ACT 1893

VOLUME
2733

FOLIO
804

The person described in the first schedule is the registered proprietor of an estate in fee simple in the land described below subject to the reservations, conditions and depth limit contained in the original grant (if a grant issued) and to the limitations, interests, encumbrances and notifications shown in the second schedule.

B. Roberts
REGISTRAR OF TITLES



LAND DESCRIPTION:

LOT 804 ON DEPOSITED PLAN 63623

REGISTERED PROPRIETOR:
(FIRST SCHEDULE)

AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS
(AF L163035) REGISTERED 4 DECEMBER 2009

LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS:
(SECOND SCHEDULE)

1. L090231 PLANTATION INTEREST TO AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS REGISTERED 19.11.2009.
2. L090232 CARBON RIGHT INTEREST TO AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS REGISTERED 19.11.2009.
- L090233 CARBON COVENANT BENEFIT TO AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS REGISTERED 19.11.2009.
3. L090233 CARBON COVENANT BURDEN - BENEFIT TO AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS REGISTERED 19.11.2009.
4. EASEMENT BURDEN CREATED UNDER SECTION 136C T.L.A. FOR RIGHT OF CARRIAGEWAY PURPOSES - SEE DEPOSITED PLAN 63623
5. EASEMENT BENEFIT CREATED UNDER SECTION 136C T.L.A. FOR WATER SUPPLY PURPOSES - SEE DEPOSITED PLAN 63623
6. EASEMENT BURDEN CREATED UNDER SECTION 136C T.L.A. FOR WATER SUPPLY PURPOSES - SEE DEPOSITED PLAN 63623

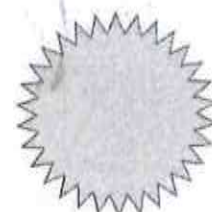
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Lot as described in the land description may be a lot or location.

-----END OF DUPLICATE CERTIFICATE OF TITLE-----

STATEMENTS:

The statements set out below are not intended to be nor should they be relied on as substitutes for inspection of the land and the relevant documents or for local government, legal, surveying or other professional advice.

SKETCH OF LAND: DP63623 [SHEET 1,2].
PREVIOUS TITLE: 1580-3, 1580-1.
PROPERTY STREET ADDRESS: NO STREET ADDRESS INFORMATION AVAILABLE.
LOCAL GOVERNMENT AREA: SHIRE OF MORAWA.



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AUSTRALIA

REGISTER NUMBER 803/DP63623	
DUPLICATE EDITION 1	DATE DUPLICATE ISSUED 11/12/2009

DUPLICATE CERTIFICATE OF TITLE
UNDER THE TRANSFER OF LAND ACT 1893

VOLUME 2733 FOLIO 803

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R. Roberts
REGISTRAR OF TITLES



LAND DESCRIPTION:

LOT 803 ON DEPOSITED PLAN 63623

REGISTERED PROPRIETOR:
(FIRST SCHEDULE)

AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS
(AF L163035) REGISTERED 4 DECEMBER 2009

LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS:
(SECOND SCHEDULE)

1. J493589 LEASE TO TELSTRA CORPORATION LTD OF CARE OF UNITED KFPW PTY LTD, GPO BOX P1233, PERTH EXPIRES: SEE LEASE. AS TO PORTION ONLY REGISTERED 1.11.2005.
2. L090231 PLANTATION INTEREST TO AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS AS TO PORTION ONLY - SEE SKETCH ON DEPOSITED PLAN 63623 REGISTERED 19.11.2009.
3. L090232 CARBON RIGHT INTEREST TO AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS AS TO PORTION ONLY - SEE SKETCH ON DEPOSITED PLAN 63623 REGISTERED 19.11.2009.
- L090233 CARBON COVENANT BENEFIT TO AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS AS TO PORTION ONLY - SEE SKETCH ON DEPOSITED PLAN 63623 REGISTERED 19.11.2009.
4. L090233 CARBON COVENANT BURDEN - BENEFIT TO AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS AS TO PORTION ONLY - SEE SKETCH ON DEPOSITED PLAN 63623 REGISTERED 19.11.2009.
5. EASEMENT BURDEN CREATED UNDER SECTION 136C T.L.A. FOR WATER SUPPLY PURPOSES - SEE DEPOSITED PLAN 63623

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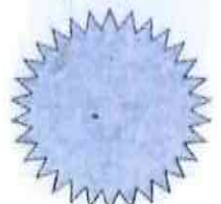
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SKETCH OF LAND: DP63623 [SHEET 1,2].
PREVIOUS TITLE: 1580-4, 1580-3, 1580-2.

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DUPLICATE CERTIFICATE OF TITLE

REGISTER NUMBER: 803/DP63623

VOLUME/FOLIO: 2733-803

PAGE 2

PROPERTY STREET ADDRESS: NO STREET ADDRESS INFORMATION AVAILABLE.
LOCAL GOVERNMENT AREA: SHIRE OF MORAWA.

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WESTERN



AUSTRALIA

REGISTER NUMBER 801/DP63623	
DUPLICATE EDITION 1	DATE DUPLICATE ISSUED 11/12/2009

DUPLICATE CERTIFICATE OF TITLE
UNDER THE TRANSFER OF LAND ACT 1893

VOLUME
2733

FOLIO
801

The person described in the first schedule is the registered proprietor of an estate in fee simple in the land described below subject to the reservations, conditions and depth limit contained in the original grant (if a grant issued) and to the limitations, interests, encumbrances and notifications shown in the second schedule.

R. Roberts



REGISTRAR OF TITLES

LAND DESCRIPTION:

LOT 801 ON DEPOSITED PLAN 63623

REGISTERED PROPRIETOR:
(FIRST SCHEDULE)

AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS
(AF L163035) REGISTERED 4 DECEMBER 2009

LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS:
(SECOND SCHEDULE)

- L090231 PLANTATION INTEREST TO AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS REGISTERED 19.11.2009.
- L090232 CARBON RIGHT INTEREST TO AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS REGISTERED 19.11.2009.
- L090233 CARBON COVENANT BENEFIT TO AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS REGISTERED 19.11.2009.
- L090233 CARBON COVENANT BURDEN - BENEFIT TO AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS REGISTERED 19.11.2009.

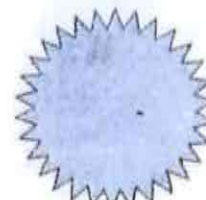
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SKETCH OF LAND: DP63623 [SHEET 1,2].
PREVIOUS TITLE: 1580-4, 1580-2.
PROPERTY STREET ADDRESS: NO STREET ADDRESS INFORMATION AVAILABLE.
LOCAL GOVERNMENT AREA: SHIRE OF MORAWA.



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WESTERN



AUSTRALIA

REGISTER NUMBER 7876/DP202083	
DUPLICATE EDITION 2	DATE DUPLICATE ISSUED 1/6/2010

DUPLICATE CERTIFICATE OF TITLE
UNDER THE TRANSFER OF LAND ACT 1893

VOLUME
1738

FOLIO
330

The person described in the first schedule is the registered proprietor of an estate in fee simple in the land described below subject to the reservations, conditions and depth limit contained in the original grant (if a grant issued) and to the limitations, interests, encumbrances and notifications shown in the second schedule.

JG Roberts

REGISTRAR OF TITLES



LAND DESCRIPTION:

LOT 7876 ON DEPOSITED PLAN 202083

REGISTERED PROPRIETOR:
(FIRST SCHEDULE)

AC MIDWEST PTY LTD OF 61 CARRINGTON STREET, NEDLANDS
(T L221581) REGISTERED 4 FEBRUARY 2010

LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS:
(SECOND SCHEDULE)

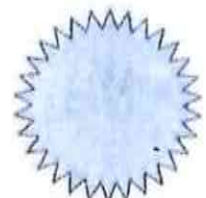
1. E117048 EASEMENT TO THE STATE ENERGY COMMISSION OF WESTERN AUSTRALIA. SEE SKETCH ON VOL 1738 FOL 330. REGISTERED 1.6.1989.
2. L240487 PLANTATION INTEREST TO AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS AS TO PORTION ONLY - SEE DEPOSITED PLAN 65885. REGISTERED 24.2.2010.
L321639 MORTGAGE OF PLANTATION INTEREST L240487 TO ACTEW CORPORATION LTD REGISTERED 20.5.2010.
3. L240488 CARBON RIGHT INTEREST TO AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS AS TO PORTION ONLY - SEE DEPOSITED PLAN 65885. REGISTERED 24.2.2010.
L240489 CARBON COVENANT BENEFIT TO AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS AS TO PORTION ONLY - DEPOSITED PLAN 65885. REGISTERED 24.2.2010.
L321637 MORTGAGE OF CARBON RIGHT L240488 TO ACTEW CORPORATION LTD REGISTERED 20.5.2010.
L321638 MORTGAGE OF CARBON COVENANT BENEFIT L240489 TO ACTEW CORPORATION LTD REGISTERED 20.5.2010.
4. L240489 CARBON COVENANT BURDEN - BENEFIT TO AUSCARBON PTY LTD OF 61 CARRINGTON STREET, NEDLANDS REGISTERED 24.2.2010.
5. L240490 MORTGAGE TO ACTEW CORPORATION LTD REGISTERED 24.2.2010.

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STATEMENTS:

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DUPLICATE CERTIFICATE OF TITLE

REGISTER NUMBER: 7876/DP202083

VOLUME/FOLIO: 1738-330

PAGE 2

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SKETCH OF LAND: 1738-330 (7876/DP202083).
PREVIOUS TITLE: 1155-315.
PROPERTY STREET ADDRESS: NO STREET ADDRESS INFORMATION AVAILABLE.
LOCAL GOVERNMENT AREA: SHIRE OF MORAWA.

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