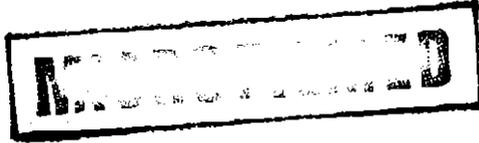


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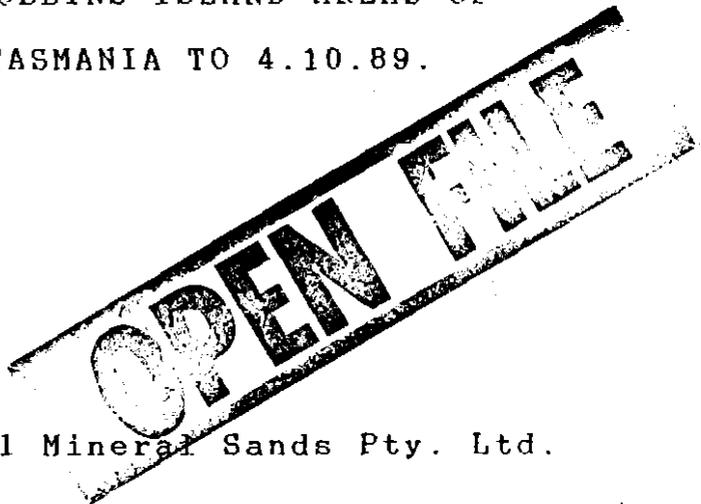


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E.L. 2/87

RELINQUISHMENT REPORT ON EXPLORATION COMPLETED
IN THE SMITTON-ROBBINS ISLAND AREAS OF
NORTH-WESTERN TASMANIA TO 4.10.89.



Prepared for National Mineral Sands Pty. Ltd.

A. Dove
October, 1989

AMG REFERENCE POINTS ADDED

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SYNOPSIS

1. AIM

To examine the Tasmanian north coast around Smithton and Robbins Island for economic heavy mineral sand occurrences.

2. REASON

Recent increases in the price of mineral sand commodities, particularly rutile and zircon, have been caused by shortages of supply. The price rises combined with technological advances within the mineral sand industry gave impetus to examination of areas previously considered to be unattractive.

3. SUMMARY AND CONCLUSIONS

- 3.1 E.L. 2/87 covered an area of 247 km² on the Tasmanian north coast around Smithton, covering Perkins and Robbins Island.
- 3.2 Exploration activities during the period 5/10/88 to 4/10/89 were confined to the area of Robbins Island.
- 3.3 Due to access problems to the island, exploration was carried out on the 5/4/89 and 6/5/89 utilizing a helicopter for transportation.

- 3.4 Field investigations were carried out on two traverse lines located on a strandline system referred to as the Remarkable Banks.
- 3.5 All drilling was by hand auger and hand operated cased sludging techniques.
- 3.6 The heavy mineral grades were very low, with the highest heavy mineral content 0.26%.
- 3.7 Heavy mineral assay results are recorded in Appendix 2.
- 3.8 Mineralogical investigations were not carried out owing to the shallow sand thickness and very low mineral content.
- 3.9 Table 1 shows comparative mineralogical results obtained from elsewhere in the Exploration Licence.
- 3.10 The mineralogy shows little variation, with rutile and zircon values very low.

4. RECOMMENDATIONS

Results obtained from exploration carried out within E.L. 2/87 have indicated that no further work is warranted. The area of the licence would require significantly higher concentrations of heavy minerals than has been

indicated to be a economically viable concern. It is recommended that this Exploration Licence be relinquished and that future efforts be concentrated on other more attractive targets.

005

REPORT5. INTRODUCTION

A programme of exploration was carried out by Peter H. Stitt & Associates on behalf of National Mineral Sands Pty. Ltd. on the north coast of Tasmania around Smithton.

The exploration was principally directed at testing the coastal dunes for heavy mineral sands deposits, containing economic minerals: particularly rutile, leucoxene, ilmenite (TiO₂ raw materials), zircon and monazite. In addition exploration was carried out to recognize any other detrital minerals if they occurred in economic quantities.

During the past four years the world market has been dominated by a short fall in supply, particularly for the TiO₂ pigment minerals, zircon and the rare earth heavy minerals. As a consequence the price for these minerals rose to historically high levels.

This combined with technological advances and the greater understanding of heavy mineral deposits resulted in a re-evaluation of prospective areas.

006

6. TENEMENT INFORMATION

Exploration Licence 2/87 was held by National Mineral Sands Pty.Ltd. (formerly Butlers No 27 Pty Ltd.). The licence covered an area of 247 square kilometres in the land district of Wellington in the vicinity of Smithton and Robbins Island, on the north-west coast of Tasmania.

The area comprised 135.9 km² of Private Property, 200 km² of Crown Land and 10 ha of State Forests. Included in the application was 2.5 km² of the Stanley Urban Conservation Area. The application excluded 10 ha of Crown Reserves.

An objection was originally raised over the area of Robbins Island. The landowners, Robbins Island Pty. Ltd. believed that they had private mineral rights granted originally to the Van Diemens Land Company, now owned in freehold by Robbins Island Pty. Ltd.

The matter was settled in the Wardens Court on 9/9/87 where the Warden was satisfied the neither Robbins Island Pty. Ltd. nor its predecessors in Title held or ever held mining rights over the subject land other than for the purpose of quarrying and raising stone etc. for its own building purposes.

Subsequent approaches to the Directors of the company for access to the island were met with resistance. This was

restricted to a tidal channel crossing. To safely negotiate the channel assistance was required from the landowner. Eventually this problem was overcome by use of a helicopter for transportation to and from the island, at a considerable cost.

7. FIELD INVESTIGATIONS

Exploration activities within the Exploration Licence during the period 5/10/88 to 4/10/89 were confined to the area of Robbins Island, situated just offshore from Smithton.

Following a number of failed attempts to access the island by vehicle, exploration was carried out on the 5/4/89 and 6/4/89 utilizing a helicopter for transportation.

Sixteen holes were drilled on two traverse lines, located on a strandline system referred to as the Remarkable Banks (see figure 1). All drilling was by hand auger and hand operated cased sludging, using Dormer Engineering equipment. Holes were hand augered to water table using a 50mm. diameter hand auger. When water was reached 50mm. casing was inserted into the hole and the hole advanced by sludging using a whistle top sludger on aluminium extension rods.

Drilling was terminated at a thick dark clay layer or when induration impeded drilling operations. While from the the air the area displayed geomorphological characteristics which were considered consistent with those required for the concentration of heavy mineral sands (see figures 2 and 3) upon drilling it was

discovered that the sand cover was very thin and all holes were terminated at less than 3.5 metres.

A brief descriptive log for each drillhole showing heavy mineral assay data is included as Appendix 1 of this report.

8. LABORATORY INVESTIGATIONS

All samples were treated by R.H.F. Laboratories, Smithton, Tasmania, using the procedure outlined.

1. Dry samples.
2. Weigh and record weight.
3. Screen on a coarse sieve (2mm) to break up agglomerated lumps.
4. Riffle split approximately 100gm working sample.
5. Re-pack balance of sample.
6. Weigh working sample.
7. Screen on 600 micron seive and weigh plus 600 micron fraction.
8. Caustic wash using a 2% NaOH solution, agitate and allow to settle.
 - 8.1 Decant NaOH solution, wash and decant with clean water in repeated steps until all NaOH is removed.
 - 8.2 Dry washed sample.
 - 8.3 Weigh washed and dried sample and calculate percentage lost as slimes during washing.
9. Using TBE, seperate heavy minerals.
10. Dry and weigh heavy minerals.
11. Calculate heavy minerals as a percentage of the sample weighed in step 6 above.
12. Package heavies for despatch.

13. Record results for:

- . dry weight of sample as received.
- . weight % of +600um material.
- . weight % of slimes.
- . weight % of heavy minerals.

Copies of laboratory result certificates are included as Appendix 2 of this report.

9. DISCUSSION

As previously mentioned the drilling was confined to two traverse lines crossing a large strandline system known as the Remarkable Banks. The strandline system revealed to be an area of swamps, with only minor variations in relief.

Traverse line one was situated on the southern edge of the strandline system, close to a track known as the Inland Track (see Figures 1 and 2). Ten (10) holes were drilled along a 4.5 kilometre line. All holes were terminated at shallow depths (less than 3.5 metres) and the highest heavy mineral content was 0.26%.

Traverse line two was located towards the middle of the strandline system (see Figures 1 and 3). Six (6) holes were drilled over a distance of 500 metres. As with line one, all hole were of shallow depth (less than 2.5 metres) and the highest heavy mineral content was 0.24%.

Owing to the shallow sand thickness and the very low mineral content mineralogical investigations were not carried out on the heavy mineral samples. Mineralogical studies of samples obtained from elsewhere within the Exploration Licence, in particular the nearby Perkins Island, revealed low concentrations of heavy mineral and economic minerals. Comparative results are shown in Table 1.



FIGURE 2 SOUTHERN EDGE OF STRANDLINE SYSTEM SHOWING POSITION OF TRAVERSE LINE ONE.



FIGURE 3 AERIAL VIEW OF STRANDLINE SYSTEM LOOKING SOUTH, NOTE POSITION OF TRAVERSE LINE TWO.

TABLE 1
COMPARISON OF MINERALOGY

MINERAL %	PERKINS ISLAND	BLACK RIVER BEACH	ANTHONY BEACH
MAGNETITE	<1	<1	-
ILMENITE	10	9	16.4
LEUCOX. ILMENITE	3	3	-
IRON OXIDES	5	11	-
GARNET	3	2	-
TOURMALINE	21	17	-
STAUROLITE	-	<1	-
EPIDOTE	1	1	-
ALUMINO-SILICATES	4	3	-
OTHER SILICATES	22	21	63.8
RUTILE	1	1	7.3
LEUCOXENE	28	32	8.6
ZIRCON	2	<1	8.8
QUARTZ	<1	<1	-
PYRITE	<1	-	-
CORUNDUM	<1	-	-
SHELL	<1	<1	-
MONAZITE	<1	<1	-
AVER. H.M. GRADE	0.18%	0.09%	0.34%

* Anthony Beach samples tested using SEM.

The results obtained over the past two years indicate that the Exploration Licence has no potential at the present time for economic mineral sand occurrences despite the favourable geomorphology of the coastal sand deposits. The sand thickness over much of the target area was found to be generally too thin to be a priority prospect, while the heavy mineral grades and concentrations of economic minerals were not encouraging.

APPENDIX 1:
Drillhole Descriptive Logs.

016
CLIENT : NATIONAL MINERAL SANDS PTY LTD

TITLE No. : EL 2/87

AREA : ROBBINS ISLAND

LINE No. : 1

LOGGED BY : A. DOVE

HOLE No. : RI-0

METHOD : HAND

DRILL DATE: 5.4.89

INTERVAL (m)	DRY Wt. (kg)	DESCRIPTION	SLIMES %	+600um %	H.M. %
0-2.0	3.80	SAND, fine - medium grained, grey organic rich grading to dark brown, indurated. WT 1.5m.	12.24	0.5368	0.13
2.0 - 3.5	7.10	SAND, fine - medium grained, grey, indurated, clay rich, hit indurated and clay rich sand. E.O.H. 3.5m.	1.38	0.06	0.26
DOWN HOLE AVERAGE					0.19

017

CLIENT : NATIONAL MINERAL SANDS PTY LTD

TITLE No. : EL 2/87

AREA : ROBBINS ISLAND

LINE No. : 1

LOGGED BY : A. DOVE

HOLE No. : RI-50

METHOD : HAND

DRILL DATE: 5.4.89

INTERVAL (m)	DRY Wt. (kg)	DESCRIPTION	SLIMES %	+600um %	H.M. %
0 - 1.4	2.70	SAND, fine - medium grained, dark grey. Hit WT 0.5m. Indurated layer at 1.4m. E.O.H. 1.4m.	6.61	2.7793	0.20
DOWN HOLE AVERAGE					0.20

0 018

CLIENT : NATIONAL MINERAL SANDS PTY LTD

TITLE No. : EL 2/87

AREA : ROBBINS ISLAND

LINE No. : 1

LOGGED BY : A. DOVE

HOLE No. : RI-100

METHOD : HAND

DRILL DATE: 5.4.89

INTERVAL (m)	DRY Wt. (kg)	DESCRIPTION	SLIMES %	+600um %	H.M. %
0 - 1.3	2.30	SAND, fine - medium grained, dark grey, organic. W.T. 0.2m. Grades to dark brown indurated. Becomes clay rich at 1.3m. Hit indurated layer E.O.H. 1.3m	5.81	3.3996	0.16
DOWN HOLE AVERAGE					0.16

019

CLIENT : NATIONAL MINERAL SANDS PTY LTD

TITLE No. : EL 2/87

AREA : ROBBINS ISLAND

LINE No. : 1

LOGGED BY : A. DOVE

HOLE No. : RI-150

METHOD : HAND

DRILL DATE: 5.4.89

INTERVAL (m)	DRY Wt. (kg)	DESCRIPTION	SLIMES %	+600um %	H.M. %
0 - 1.3	2.75	SAND, fine - medium grained, dark grey, organic. WT 0.3m. Grades to dark brown, indurated. Hit hard indurated layer. E.O.H. 1.3m.	7.04	1.3127	0.18
DOWN HOLE AVERAGE					0.18

18

565020

020

CLIENT : NATIONAL MINERAL SANDS PTY LTD

TITLE No. : EL 2/87

AREA : ROBBINS ISLAND

LINE No. : 1

LOGGED BY : A. DOVE

HOLE No. : RI-200

METHOD : HAND

DRILL DATE: 5.4.89

INTERVAL (m)	DRY Wt. (kg)	DESCRIPTION	SLIMES %	+600um %	H.M. %
0 - 2.0	5.00	SAND, fine - medium grained, dark brown, organic. Hit WT 0.3m. Organic, very sticky, clay rich. Hit numerous thin clay layers.	5.66	0.9588	0.17
2.0 - 3.0	1.95	SAND, fine - medium grained, dark brown, silty and clay rich. Hit clay. E.O.H. 3.0m. Clay	9.06	0.81	0.10
DOWN HOLE AVERAGE					0.15

021

CLIENT : NATIONAL MINERAL SANDS PTY LTD

TITLE No. : EL 2/87

AREA : ROBBINS ISLAND

LINE No. : 1

LOGGED BY : A. DOVE

HOLE No. : RI-250

METHOD : HAND

DRILL DATE: 5.4.89

INTERVAL (m)	DRY Wt. (kg)	DESCRIPTION	SLIMES %	+600um %	H.M. %
0 - 1.7	3.30	SAND, fine - medium grained, grey, grading to dark grey. Hit WT 0.5m. Organic, clay rich, indurated layer at 1.2m. Hard indurated layer at 1.7m. E.O.H. 1.7m.	3.86	1.3542	0.18
DOWN HOLE AVERAGE					0.18

022

CLIENT : NATIONAL MINERAL SANDS PTY LTD

TITLE No. : EL 2/87

AREA : ROBBINS ISLAND

LINE No. : 1

LOGGED BY : A. DOVE

HOLE No. : RI-300

METHOD : HAND

DRILL DATE: 5.4.89

INTERVAL (m)	DRY Wt. (kg)	DESCRIPTION	SLIMES %	+600um %	H.M. %
0 - 2.0	4.20	SAND, fine - medium grained, grey to dark grey, organic. WT 0.5m. Turns dark brown, clay rich at 1.0m. Then into sand (grey) at 1.1m. Very fine silty clay again at 2.0m. E.O.H. 2.0m. Clay. Rods jammed.	N/A	1.2995	0.12
DOWN HOLE AVERAGE					0.12

023

CLIENT : NATIONAL MINERAL SANDS PTY LTD

TITLE No. : EL 2/87

AREA : ROBBINS ISLAND

LINE No. : 1

LOGGED BY : A. DOVE

HOLE No. : RI-350

METHOD : HAND

DRILL DATE: 5.4.89

INTERVAL (m)	DRY Wt. (kg)	DESCRIPTION	SLIMES %	+600um %	H.M. %
0 - 1.0	1.85	SAND, fine - medium grained, grey to dark grey, organic. WT 0.5m. Grades to dark brown, clay rich. Indurated clay layer 1.0m. E.O.H. 1.0. Rods jammed.	6.53	1.2543	0.05
DOWN HOLE AVERAGE					0.05

024

CLIENT : NATIONAL MINERAL SANDS PTY LTD

TITLE No. : EL 2/87

AREA : ROBBINS ISLAND

LINE No. : 1

LOGGED BY : A. DOVE

HOLE No. : RI-400

METHOD : HAND

DRILL DATE: 5.4.89

INTERVAL (m)	DRY Wt. (kg)	DESCRIPTION	SLIMES %	+600um %	H.M. %
0 - 1.0	1.90	Started sludging immediately. SAND, fine - medium grained, dark grey, organic grading to dark brown, indurated. Clay rich. Hit clay at 1.0m. E.O.H. 1.0m.	N/A	1.9958	0.10
DOWN HOLE AVERAGE					0.10

025

CLIENT : NATIONAL MINERAL SANDS PTY LTD

TITLE No. : EL 2/87

AREA : ROBBINS ISLAND

LINE No. : 1

LOGGED BY : A. DOVE

HOLE No. : RI-450

METHOD : HAND

DRILL DATE: 5.4.89

INTERVAL (m)	DRY Wt. (kg)	DESCRIPTION	SLIMES %	+600um %	H.M. %
0 - 1.0	1.50	Started sludging straight away. SAND, fine - medium grained, dark grey, organic. grading to dark brown. Hit clay at 1.0m. E.O.H. 1.0m.	N/A	2.4275	0.16
DOWN HOLE AVERAGE					0.16

026

CLIENT : NATIONAL MINERAL SANDS PTY LTD

TITLE No. : EL 2/87

AREA : ROBBINS ISLAND

LINE No. : 2

LOGGED BY : A. DOVE

HOLE No. : RI-0

METHOD : HAND

DRILL DATE: 6.4.89

INTERVAL (m)	DRY Wt. (kg)	DESCRIPTION	SLIMES %	+600um %	H.M. %
0 - 1.5	3.00	SAND, fine - medium grained, dark grey, organic, grades to grey. Hit WT 1.0m. Grades to brown, indurated. Hit hard indurated layer at 1.5m. E.O.H. 1.5M. Indurated.	13.98	2.0787	0.19
DOWN HOLE AVERAGE					0.19

027

CLIENT : NATIONAL MINERAL SANDS PTY LTD

TITLE No. : EL 2/87

AREA : ROBBINS ISLAND

LINE No. : 2

LOGGED BY : A. DOVE

HOLE No. : RI-10

METHOD : HAND

DRILL DATE: 6.4.89

INTERVAL (m)	DRY Wt. (kg)	DESCRIPTION	SLIMES %	+600um %	H.M. %
0 - 1.5	3.50	organic. Hit WT 0.6m. Becomes dark brown, indurated clay rich at 1.0m. sticky clay at 1.5m. Casing jammed. E.O.H. 1.5m. Clay.	5.92	1.5111	0.24
DOWN HOLE AVERAGE					

028

CLIENT : NATIONAL MINERAL SANDS PTY LTD

TITLE No. : EL 2/87

AREA : ROBBINS ISLAND

LINE No. : 2

LOGGED BY : A. DOVE

HOLE No. : RI-20

METHOD : HAND

DRILL DATE: 6.4.89

INTERVAL (m)	DRY Wt. (kg)	DESCRIPTION	SLIMES %	+600um %	H.M. %
0 - 1.4	3.20	SAND, fine - medium grained, grey to dark grey, organic. Hit WT at 1.0m. Becomes dark brown, indurated, hit hard layer at 1.4m. Casing jammed at 1.4m. E.O.H. 1.4m.	4.32	0.9763	0.07
DOWN HOLE AVERAGE					0.07

27

565029

029

CLIENT : NATIONAL MINERAL SANDS PTY LTD

TITLE No. : EL 2/87

AREA : ROBBINS ISLAND

LINE No. : 2

LOGGED BY : A. DOVE

HOLE No. : RI-30

METHOD : HAND

DRILL DATE: 6.4.89

INTERVAL (m)	DRY Wt. (kg)	DESCRIPTION	SLIMES %	+600um %	H.M. %
0 - 1.5	2.60	SANDY CLAY, dark brown, hit WT 0.2m. organic. Hit indurated sand 1.0m. Hit hard layer at 1.5m. Casing jammed. E.O.H. 1.5m.	6.33	2.5196	0.19
DOWN HOLE AVERAGE					0.19

28

565030

030

CLIENT : NATIONAL MINERAL SANDS PTY LTD

TITLE No. : EL 2/87

AREA : ROBBINS ISLAND

LINE No. : 2

LOGGED BY : A. DOVE

HOLE No. : RI-40

METHOD : HAND

DRILL DATE: 6.4.89

INTERVAL (m)	DRY Wt. (kg)	DESCRIPTION	SLIMES %	+600um %	H.M. %
0 - 2.0	2.85	SAND fine - medium grained, dark grey, organic. Clay rich. WT 0.5m. Grades to dark brown, indurated. Hit hard layer.	14.11	0.6767	0.16
2 - 2.5	2.45	SAND, fine - medium grained, grey, indurated. Casing jammed 2.5m. E.O.H. 2.5m.	1.54	0.04	0.15
DOWN HOLE AVERAGE					0.16

031

CLIENT : NATIONAL MINERAL SANDS PTY LTD

TITLE No. : EL 2/87

AREA : ROBBINS ISLAND

LINE No. : 2

LOGGED BY : A. DOVE

HOLE No. : RI-50

METHOD : HAND

DRILL DATE: 6.5.89

INTERVAL (m)	DRY Wt. (kg)	DESCRIPTION	SLIMES %	+600um %	H.M. %
0 - 2.0	3.35	Started sludging SAND. Fine - medium grained. Dark brown, organic, clay rich.	7.67	0.6767	0.13
2 - 2.5	2.80	SAND, fine - medium grained, grey. Hit hard indurated layer. Casing jammed. E.O.H. 2.5m.	0.16	0.0571	0.16
DOWN HOLE AVERAGE					0.14

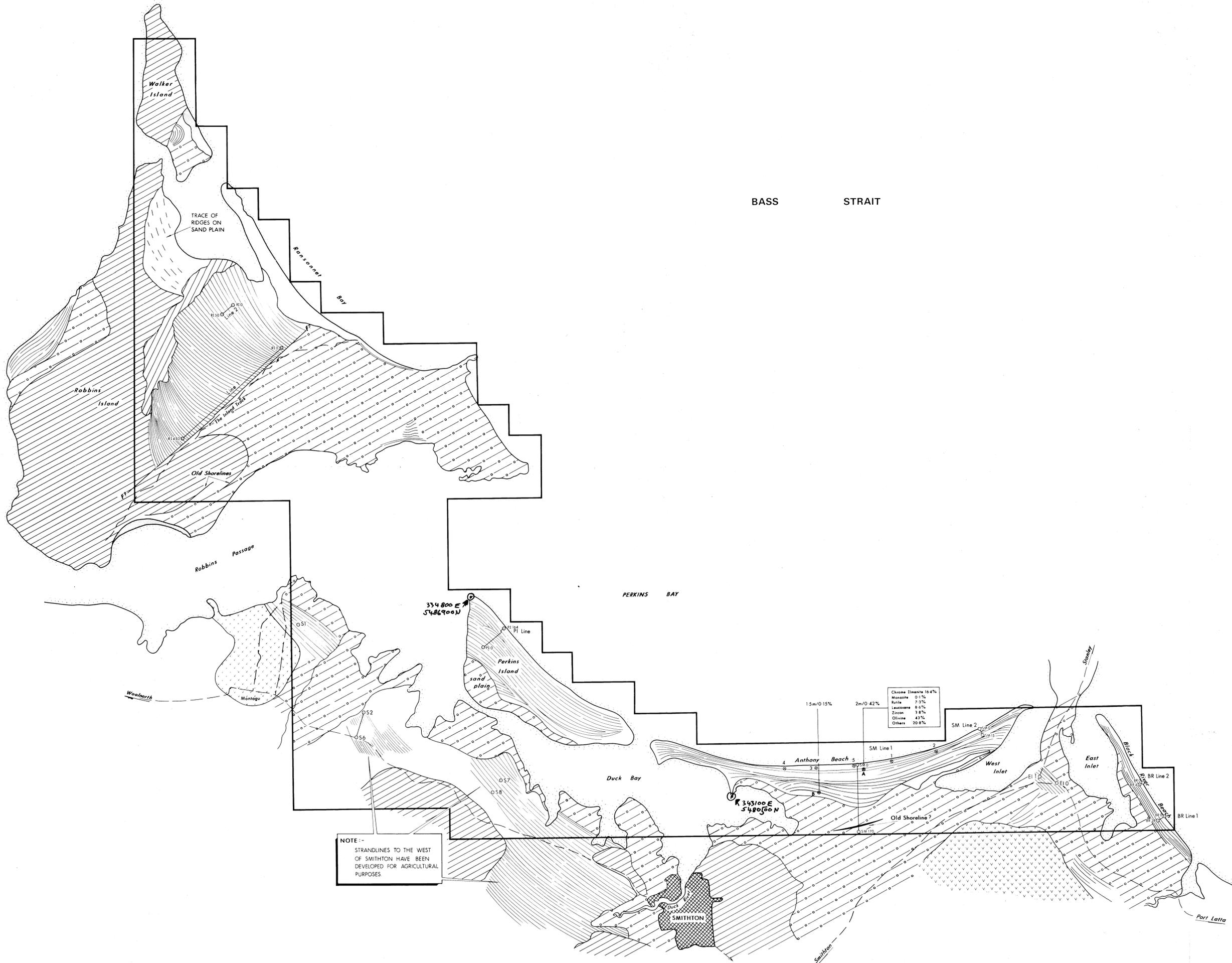
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565032

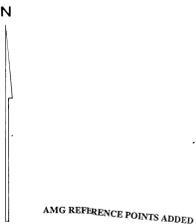
APPENDIX 2:
Laboratory Assay Certificates

R.H.F. LABORATORY HEAVY MINERAL SEPARATION

HOLE NUMBER	DEPTH	TOTAL WEIGHT KG	% +2mm	% +600u	% -600u	% SLIME	% HEAVY MINERAL
EL 2/87							
ROBBINS 19.							
RI-0	0-2.0	3.80	0.0568	0.48	99.52	12.24	0.13
RI-0	2.0-3.5	7.10	0.0000	0.06	99.94	1.38	0.26
RI-50	0-1.4	2.70	1.2193	1.56	98.44	6.61	0.20
RI-100	0-1.3	2.30	1.1396	2.26	97.74	5.81	0.16
RI-150	0-1.3	2.75	0.2327	1.08	98.92	7.04	0.18
RI-200	0-2.0	5.00	0.2688	0.67	99.31	5.66	0.17
RI-200	2.0-3.0	1.95	0.0000	0.81	99.19	9.06	0.10
RI-250	0-1.7	3.30	0.4142	0.94	99.06	3.86	0.18
RI-300	0-2.0	4.20	0.4095	0.89	99.11	N/A	0.12
RI-350	0-1.0	1.85	0.5443	0.71	99.29	6.53	0.05
RI-400	0-1.0	1.90	0.5358	1.46	98.54	N/A	0.10
RI-450	0-1.0	1.50	1.0373	1.39	98.61	N/A	0.16
ROBBINS 18. LINE 2							
RI-0	0-1.5	3.00	0.5487	1.53	98.47	13.98	0.19
RI-10	0-1.5	3.50	0.1111	1.40	98.60	5.92	0.24
RI-20	0-1.4	3.20	0.2163	0.76	99.24	4.32	0.07
RI-30	0-1.5	2.60	0.8496	1.67	98.33	6.33	0.19
RI-40	0-2.0	2.85	0.4512	0.83	99.17	14.11	0.16
RI-40	2.0-2.5	2.45	0.0000	0.04	99.96	1.54	0.15
RI-50	0-2.0	3.35	0.1167	0.56	99.44	7.67	0.13
RI-50	2.0-2.5	2.80	0.0071	0.03	99.95	0.96	0.16



NOTE:-
STRANDLINES TO THE WEST
OF SMITHTON HAVE BEEN
DEVELOPED FOR AGRICULTURAL
PURPOSES.



LEGEND

- Aeolian Sand Dunes
- Beach Ridge Strandlines
- Sand Plan & Alluvial Delta
- Track / Road
- Basement
- Volcanics
- Drillhole
- Traverse Line Showing End Drillhole Positions

SCALE 1:42 000

0 800 1600 2400 3200 4000 m.

8834 565025

NATIONAL MINERAL SANDS P/L
EL 2/87 TASMANIA
**AIR PHOTO INTERPRETATION
SMITHTON TO ROBBINS ISLAND
SHOWING TRAVERSE LINES**

Author: G. LEE Date: OCT '89 Figure: 1