



DISCOVERY AND DEVELOPMENT OF FERTILISERS (POTASH AND PHOSPHATE) IN THE NT OF AUSTRALIA BY RUM JUNGLE RESOURCES LTD

AN EXAMPLE OF LOGISTICS OPERATIONS

DAVID MULLER – MANAGING DIRECTOR
VISIT TO CHINA
November 2012

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Competent Person's Statement

The information in this presentation that relates to exploration results, mineral resources or ore reserves is based on information compiled by Mr David Muller, who is a Fellow of the Australasian Institute of Mining and Metallurgy. Mr Muller is Managing Director of Rum Jungle Resources Ltd and a full time employee of the Company. Mr Muller has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity to which he is undertaking to qualify as a Competent Person as defined in the 2004 edition of the “Australasian Code for Reporting of Exploration results, Mineral Resources and Ore Reserves”. Mr Muller consents to the inclusion in this presentation on the matters based on their information in the form and context in which it appears.



RUM JUNGLE资源有限公司对澳大利亚北领地化肥(钾肥和磷肥)的发现和开发

物流运营的实例

- ✖ DAVID MULLER – 董事总经理
- ✖ 中国之行
- ✖ 2012年11月

ASX CODE: RUM

- ✗ Rum Jungle Resources Ltd is a Darwin based, NT focused diversified explorer.
- ✗ Listed on the ASX in November 2007 after raising \$12 million in the IPO.
- ✗ Raised \$6.6M @ \$0.33 per share April 2012.
- ✗ Significant new institutional shareholder base has emerged in 2012
- ✗ \$10 million cash on deposit end OCTOBER 2012.
- ✗ Market Capitalisation 207 million shares @ \$0.27 is A\$56 million.
- ✗ Announces JORC inferred resource of 253,000,000 tonnes at 15% P205 in Dec 2011
- ✗ Over 2000 RC holes now completed for over 60,000 meters. Resource now being recalculated
- ✗ Full scoping study of phosphate commenced in September
- ✗ Total Potash resource of 5,531,000 tonnes potassium sulphate in brine announced November 2012

DIRECTORS

John Roberts (Chairman)
David Muller (Managing Director)
Rob Annells
Jeff Landels

SENIOR STAFF

Chris Tziolis (Chief Development Officer)
Chris Moyle (CFO and Company Secretary)
Nigel Doyle (Exploration Manager)
John Dunster (Chief Geologist)

Top Shareholders

Washington H Soul Pattinson	13.5%
Lion Selection	4.9%
Acorn Capital	4.9%
Farjoy Pty Ltd	4.5%
Finching Pty Ltd	4.0%
Merrill Lynch Nominees	4.3%

ASX代码 : RUM

- ✖ Rum Jungle Resources Ltd 是一家总部在达尔文的多样化勘探公司，其关注重点在北领地。
- ✖ 2007年11月在ASX上市，IPO 融资1200万澳元。
- ✖ 2012年4月以每股0.33澳元的价格融资660万澳元。
- ✖ 2012年出现了明显的新机构股东群体。
- ✖ 2012年十月底现金存款1000万澳元。
- ✖ 按0.27澳元的股价，2.07亿股的市值为5600万澳元。
- ✖ 2011年12月公告了2.53亿吨的JORC 推断资源量，品位为15% P205。
- ✖ 超过 2000 RC钻孔现在完成了6万多米。资源量现在正在重新计算中。
- ✖ 磷矿的总体概略研究在9月开始
- ✖ 2012年11月宣布钾资源总量为盐水中的450万吨硫酸钾。

董事

John Roberts (董事长)
David Muller (董事总经理)
Rob Annells
Jeff Landels

高管人员

Chris Tziolis (首席开发官)
Chris Moyle (CFO 兼公司秘书)
Nigel Doyle (勘探经理)
John Dunster (首席地质师)

最大股东

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Finching Pty Ltd	4.0%
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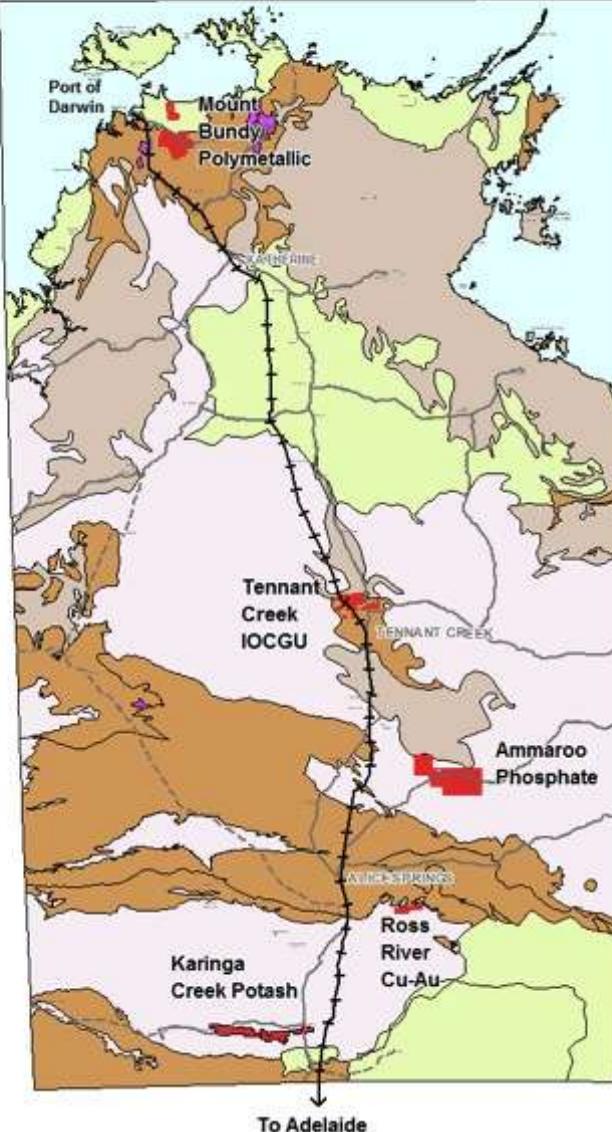
THE BARROW CREEK 1 PHOSPHATE DISCOVERY BY RUM JUNGLE RESOURCES LTD, AMMAROO, NORTHERN TERRITORY AUSTRALIA

LOGISTICS OPERATION 1



RUM JUNGLE资源有限公司在澳大利亚北领地
AMMAROO发现的**BARROW CREEK 1**磷矿

物流运营1



ASX Code: RUM
125 million shares on issue
Market Cap @ \$0.07 is \$8.75 million
www.rumjungleuranium.com.au

MAJOR SHAREHOLDERS	
Directors	11%
ANZ Nominees	10.8%
Territory Resources	7.5%
Merrill Lynch Nominees	5.7%

WORLD MARKET

OCEAN FREIGHT

世界市场

海运

WORLD PRODUCTION PHOSPHATE



世界磷矿产量



7 MAIN NORTH AFRICAN & MED PLAYERS



北非和中东7个主要的参与者



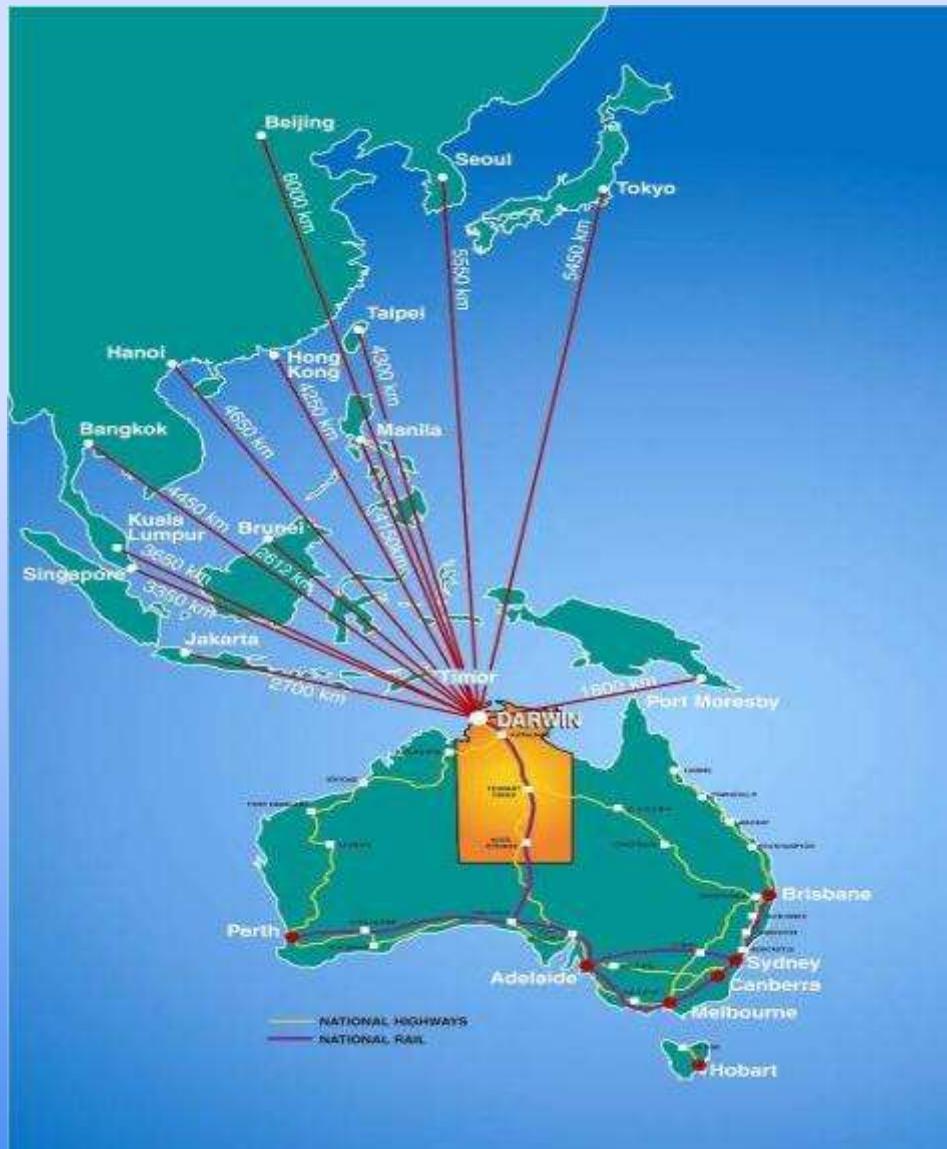
RUM'S STRATEGY IS TO FOCUS ON MARKETS FOR ROCK
PHOSPHATE

CLOSE TO DARWIN PORT THAT WILL SAVE
CUSTOMERS IN THE ASIA REGION CONSIDERABLE
FREIGHT CHARGES VIS A VIS SUPPLIES FROM
THE MEDITERRANEAN & NORTH AFRICAN (MENA)
PRODUCERS

RUM的战略是关注于靠近达尔文港的磷矿粉市场
相对于地中海和北非 (MENA) 生产商
这将为亚洲地区的客户省下可观的运费

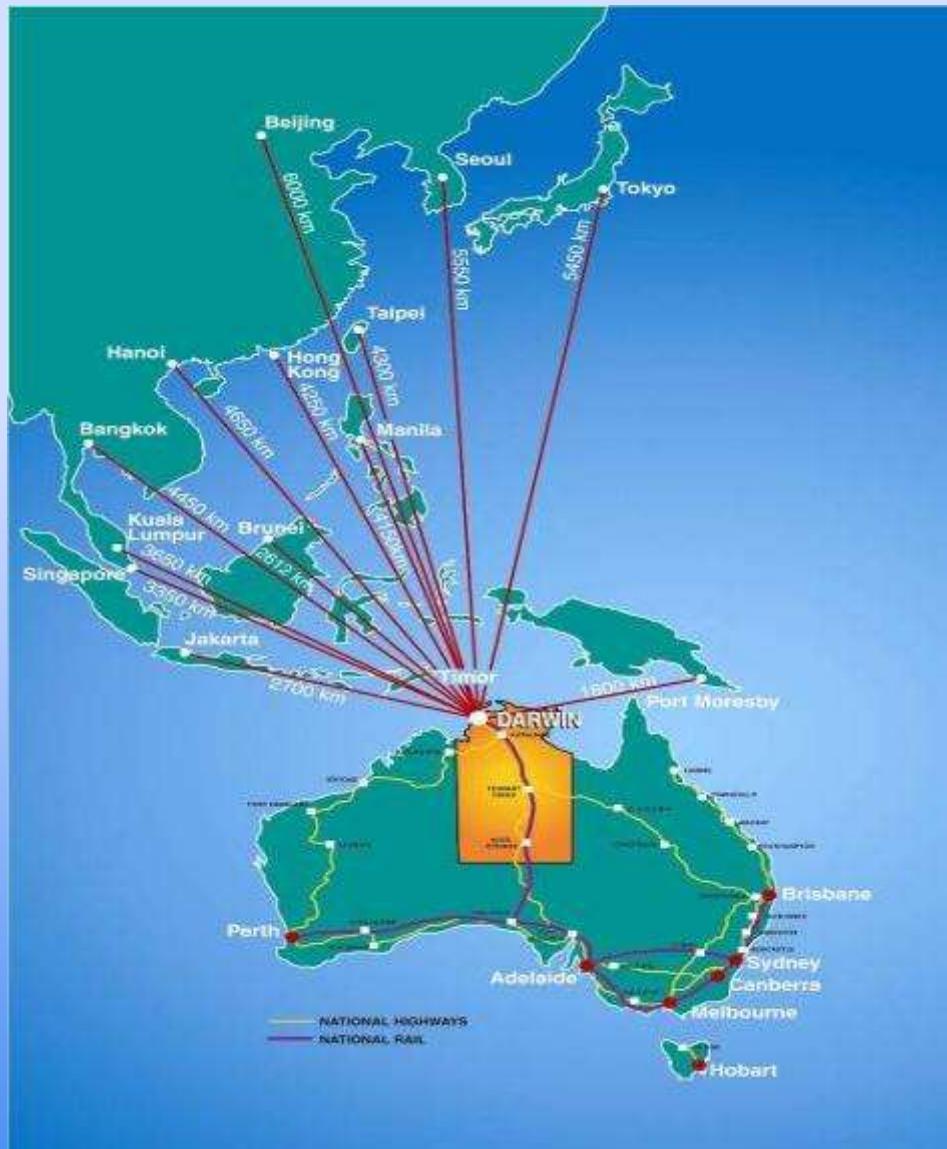
DARWIN'S PROXIMITY TO ASIA

Jakarta:	1470nm
Singapore:	1807nm
Ho Chi Minh:	2003nm
Hong Kong:	2305nm
Taipei:	2315nm
Bangkok:	2393nm
Shanghai:	2677nm
Yokohama:	2918nm
Seoul:	3010nm
Melbourne:	3755km
Adelaide:	3241km



达尔文与亚洲的近距离

Jakarta:	1470nm
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Hong Kong:	2305nm
Taipei:	2315nm
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Shanghai:	2677nm
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Melbourne:	3755km
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DELIVERY ORE CONCENTRATES BY RAIL TO DARWIN



通过铁路将精矿运往达尔文



PROJECT ECONOMICS

项目经济性

SCOPING-LEVEL PHOSPHATE ROCK DSO CAPEX ESTIMATES (A\$ MILLIONS)

ITEM	COST ESTIMATE	COMMENT
FEASIBILITY STUDY	1.5	
ENGINEERING & DESIGN	26.0	INCLUDES BENEFICIATION
GEOLOGY & HYDROLOGY	2.0	
MINING EQUIPMENT	5.0	
WATER	1.0	
MINE INFRASTRUCTURE	12.5	
HAUL ROADS	24.0	
RAIL CARRIAGES (70)	10.0	
PORT FACILITY	35.0	
RAIL LOOPS AND SIDING	5.0	
TOTAL	121.0	BENEFICIATION 97 TO 130

概略水平磷矿DSO资本性支出估算(百万澳元)

项目	成本估算	备注
可行性研究	1.5	
工程设计	26.0	包括选矿
地质水文	2.0	
采矿设备	5.0	
水	1.0	
矿山基础设施	12.5	
运输道路	24.0	
车皮(70)	10.0	
港口设施	35.0	
铁路环线和支线	5.0	
总计	121.0	选矿97到130

SURGING FOOD DEMAND FOREVER?



永远都有粮食强劲需求？

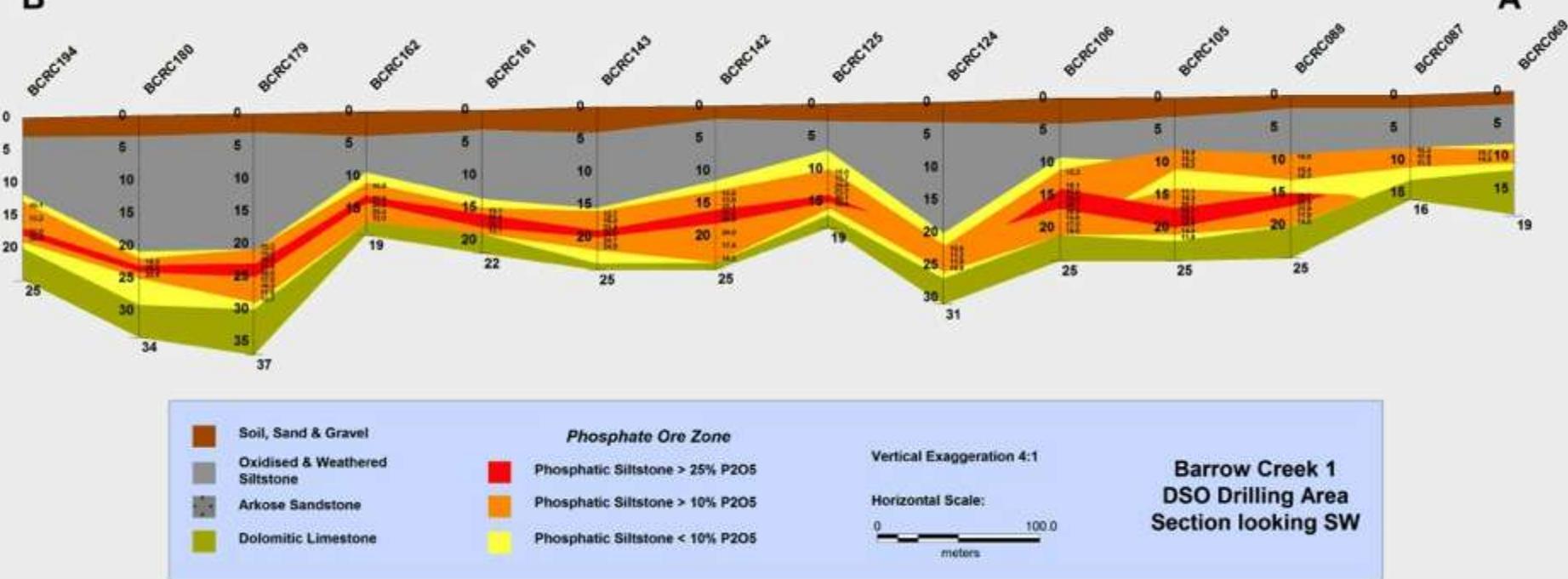


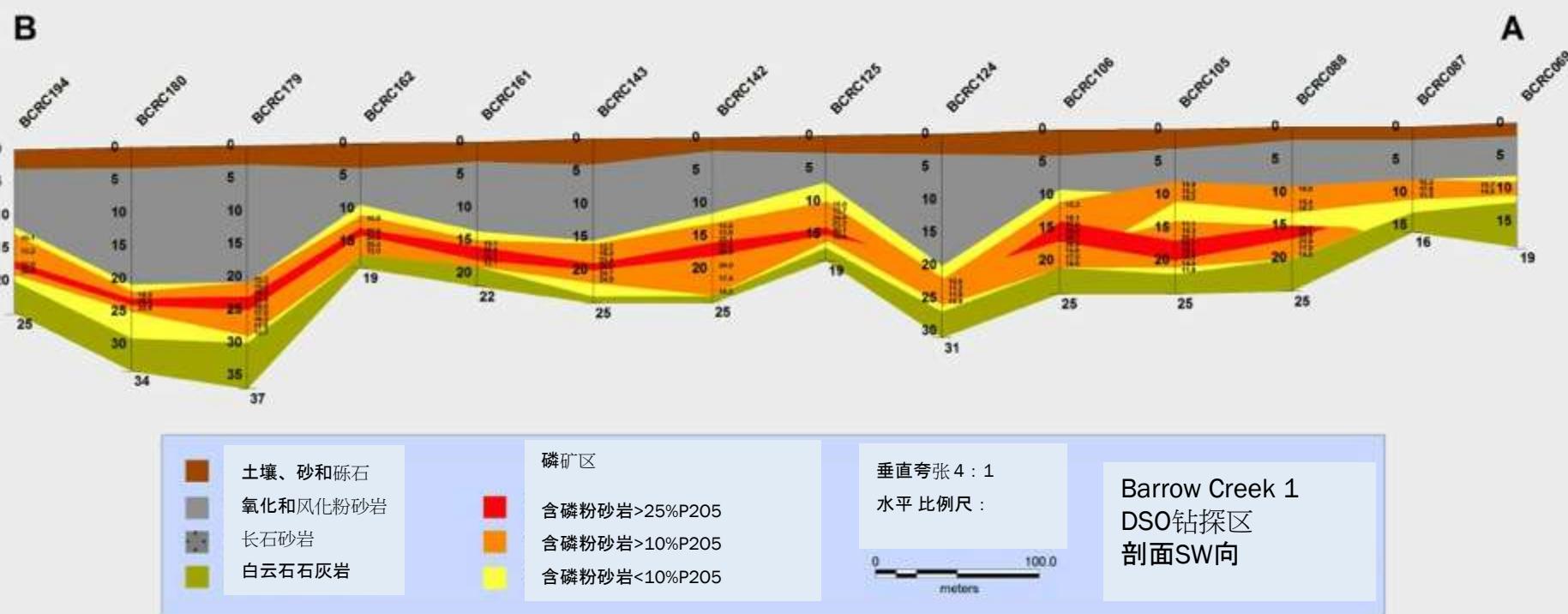
DISTRIBUTION OF PHOSPHATE IN GEORGINA BASIN

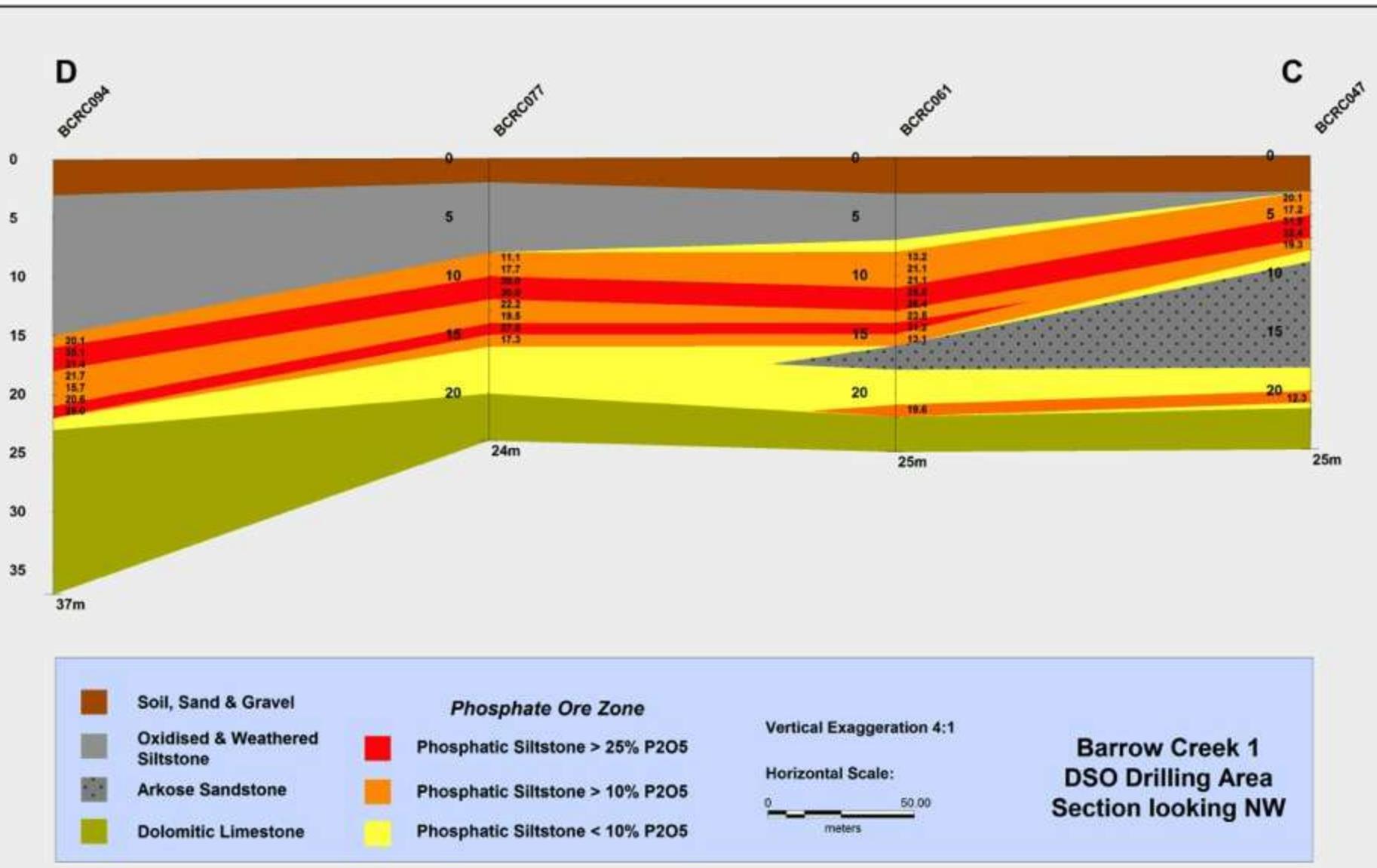


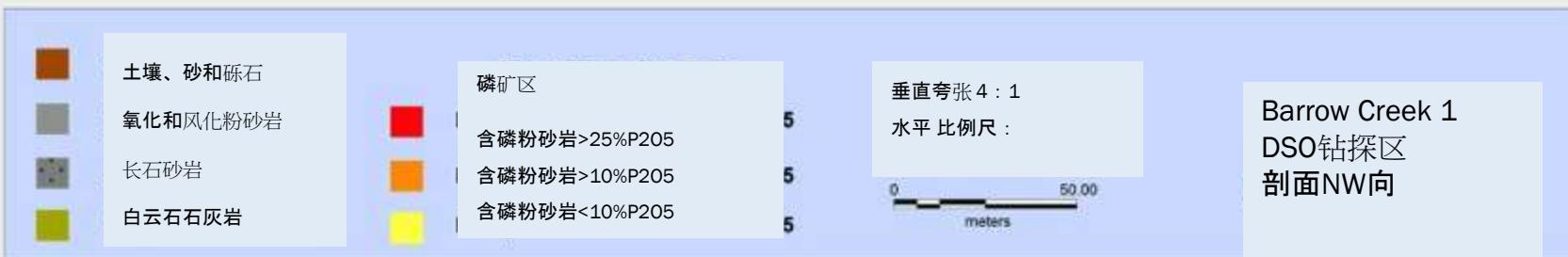
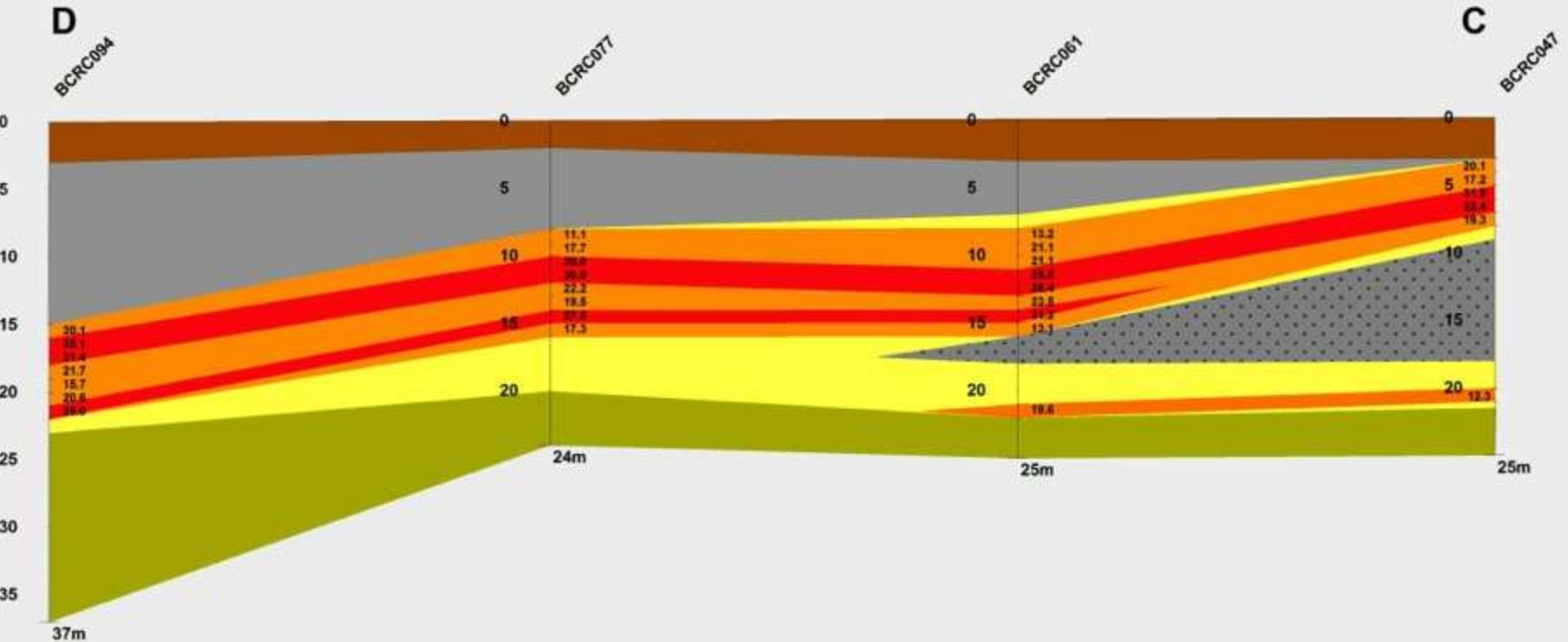
GEORGINA盆地的磷矿分布



B**A**



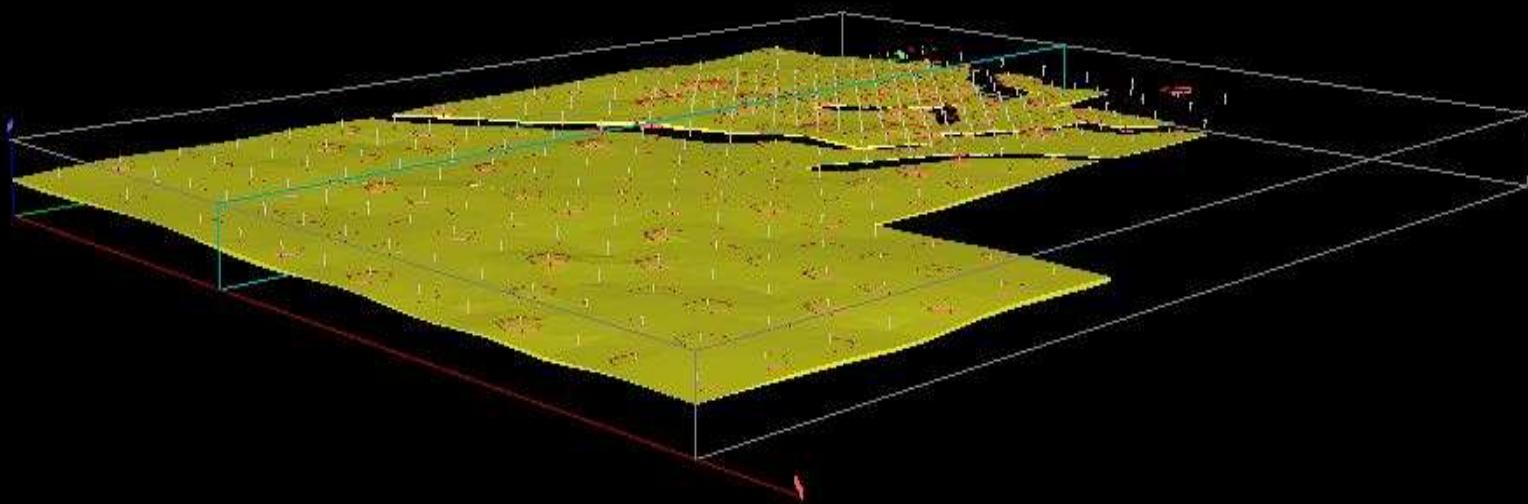




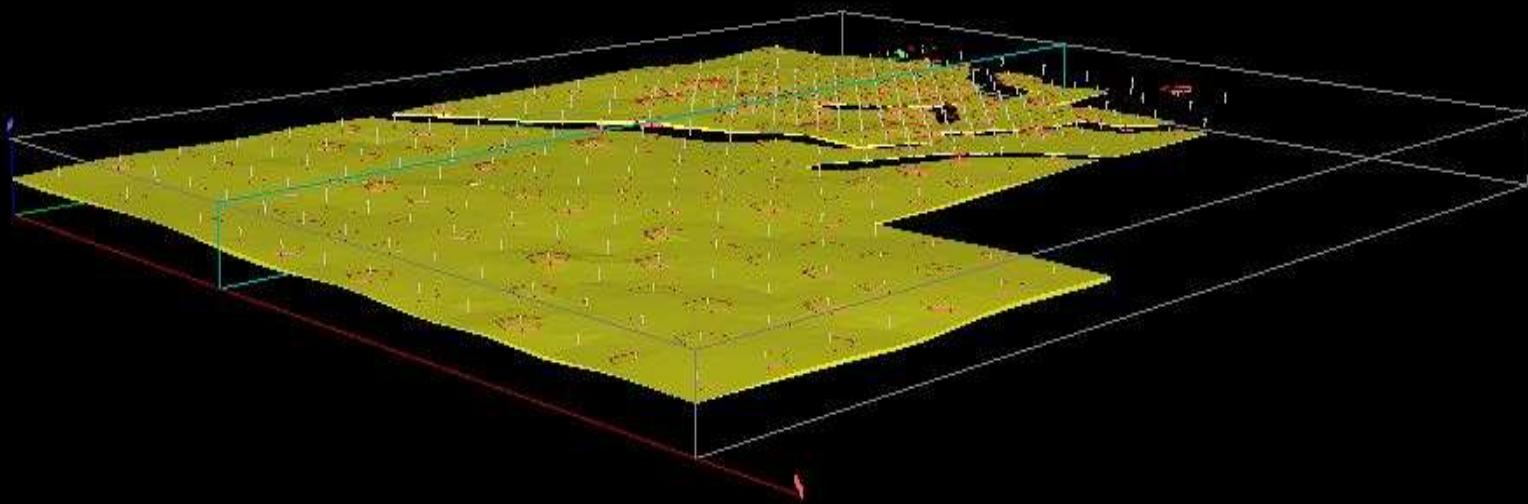
Thickness (m)	Grade % P ₂ O ₅	From Depth (m)	Drillhole (BCRC)
8	30.8	15	704
3	35.7	14	106
4	31.1	12	126
3	30.2	12	105
6	27.4	5	653
9	26.6	8	697
5	28.3	3	065
3	30.0	5	047
4	27.6	8	037
4	27.2	2	024
3	26.8	3	011
5	25.5	5	032
6	29.2	9	1892
2	34.0	15	1889
3	33.7	14	1908
4	30.7	11	1911
4	30.6	10	1912
3	31.0	8	1364
2	30.6	8	1361
2	32.0	16	1356
3	29.6	11	1360
8	35.1	36	1900
7	30.8	10	1294
6	29.8	19	1788
5	34.1	31	1871
2	30.6	14	1354

厚度 Thickness (m)	品位 Grade % P ₂ O ₅	起点深度 From Depth (m)	钻孔 Drillhole (BCRC)
8	30.8	15	704
3	35.7	14	106
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2	30.6	14	1354

Model Barrow Creek 1 Looking NW



Barrow Creek 1模型，西北走向



COSTEAN 4 FROM SURFACE TO 7 METERS DEPTH



从地表到7米深度的井探4



COSTEAN 4 DSO ASSAYS

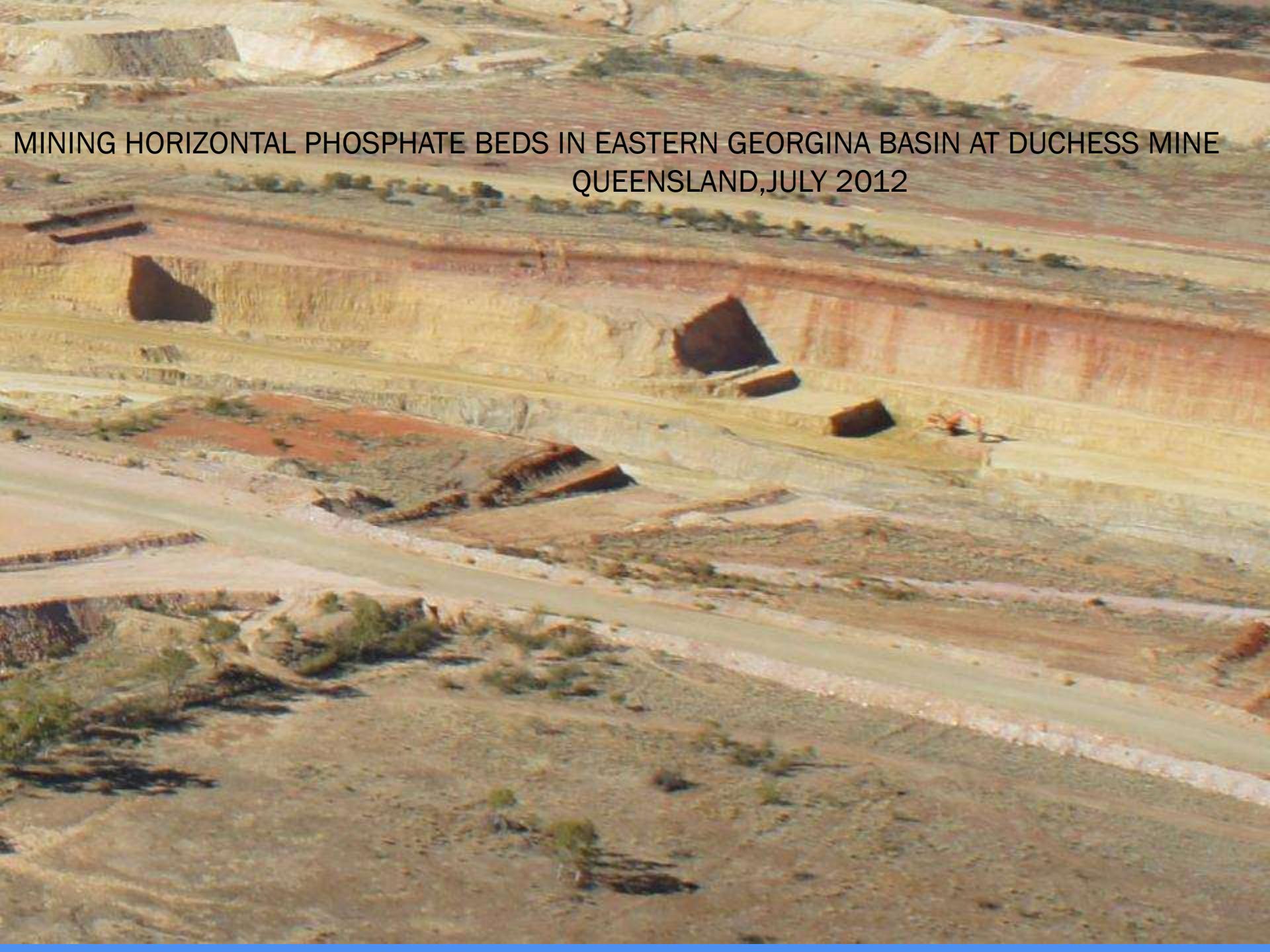
井探4 DSO分析

WHAT THE OPERATION MAY LOOK LIKE

RECENT AERIAL PHOTOS DUCHESS MINE ,
GEORGINA BASIN QUEENSLAND

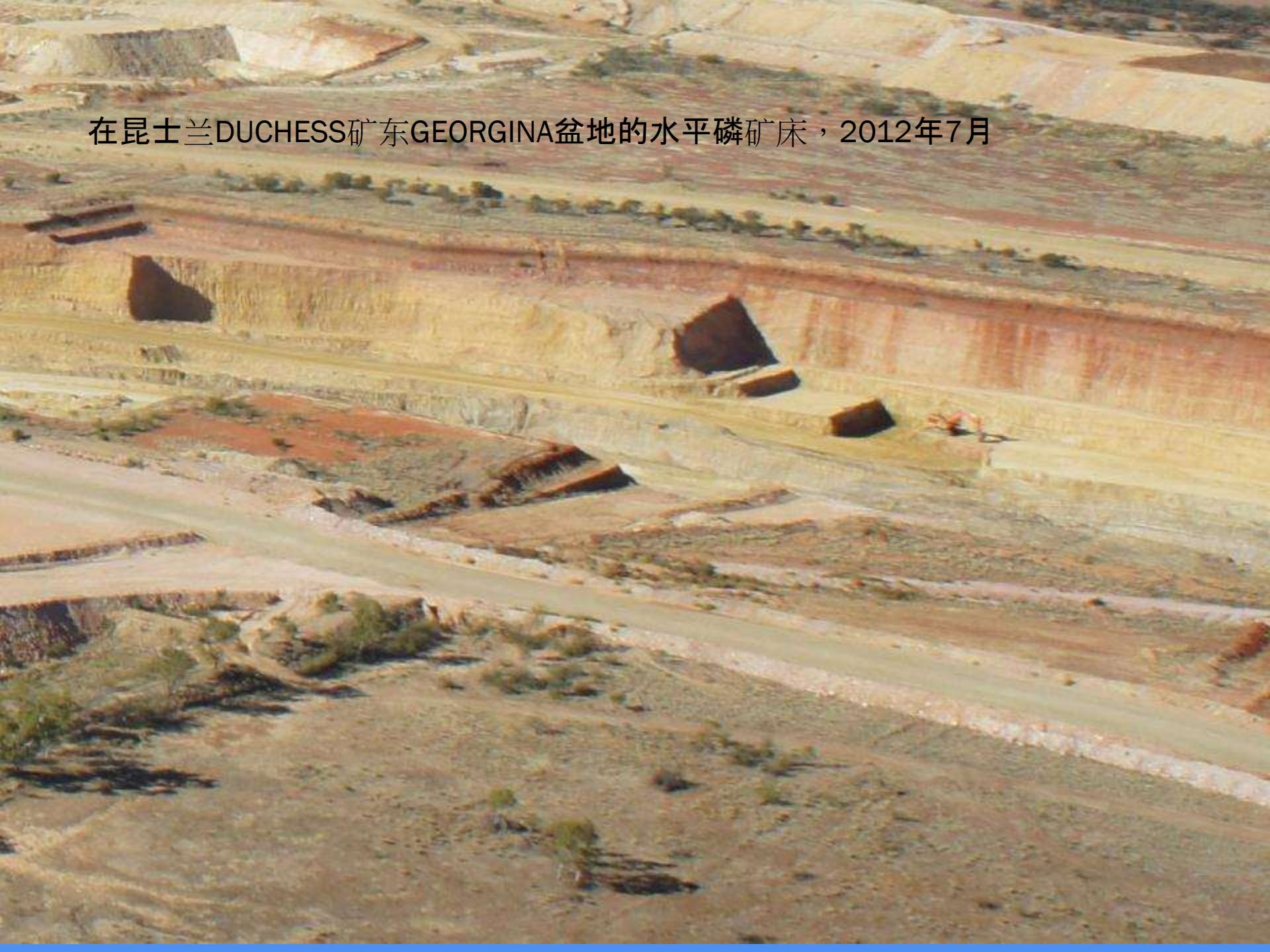
矿区会是什么样子

昆士兰GEORGINA盆地DUCHESS矿最近的航拍照片



MINING HORIZONTAL PHOSPHATE BEDS IN EASTERN GEORGINA BASIN AT DUCHESS MINE
QUEENSLAND, JULY 2012

在昆士兰DUCHESS矿东GEORGINA盆地的水平磷矿床，2012年7月



**RESOURCE DEFINITION COMPLETE AT BARROW
CREEK 1**

**SUBSTANTIAL RESOURCE ALSO LIKELY AT
AMMAROO 1, 80KM EAST OF BC 1.**

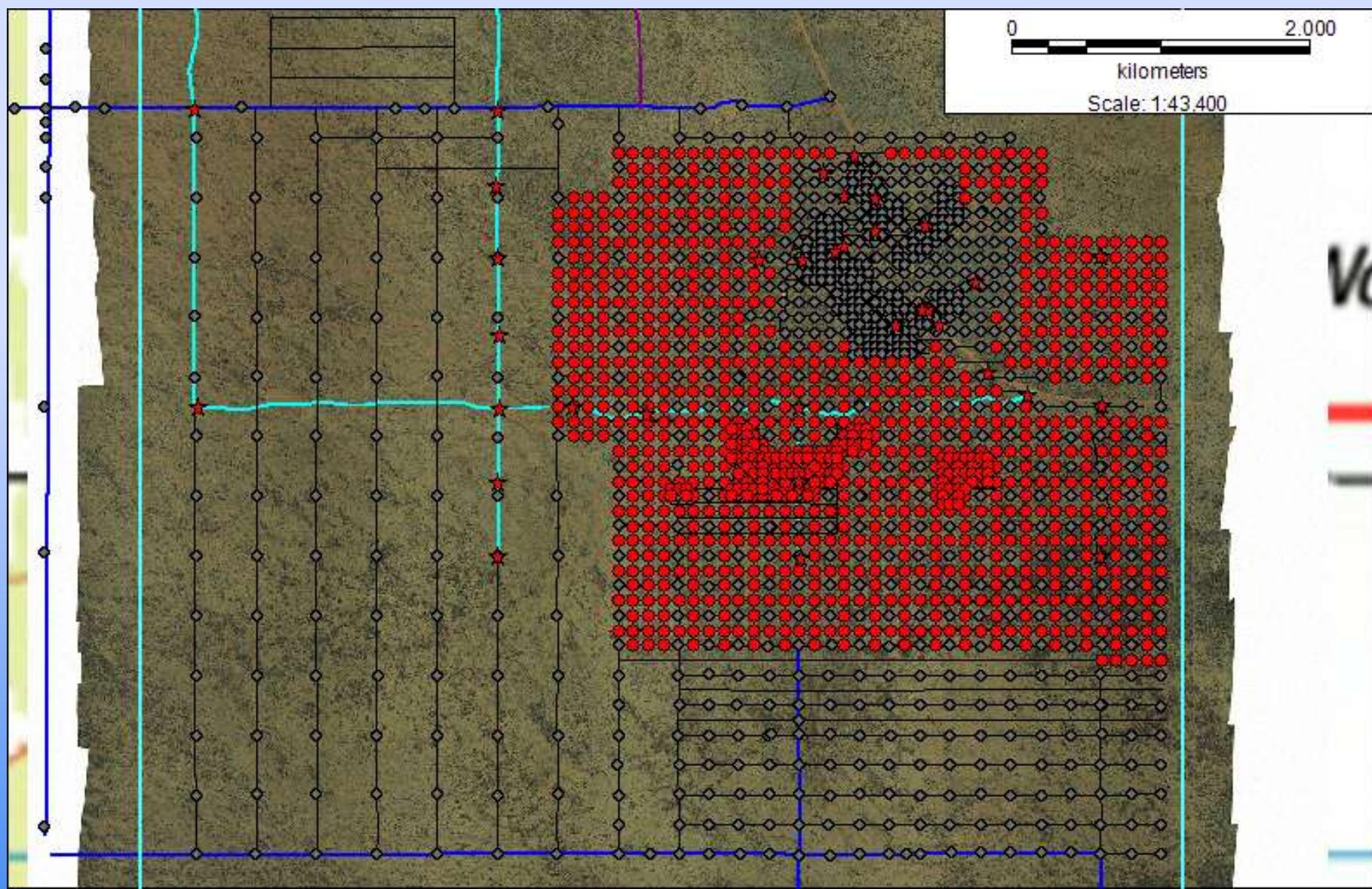
BARROW CREEK 1完成资源圈定

BC 1以东80KM的AMMAROO 1
也可能有相当多的资源量

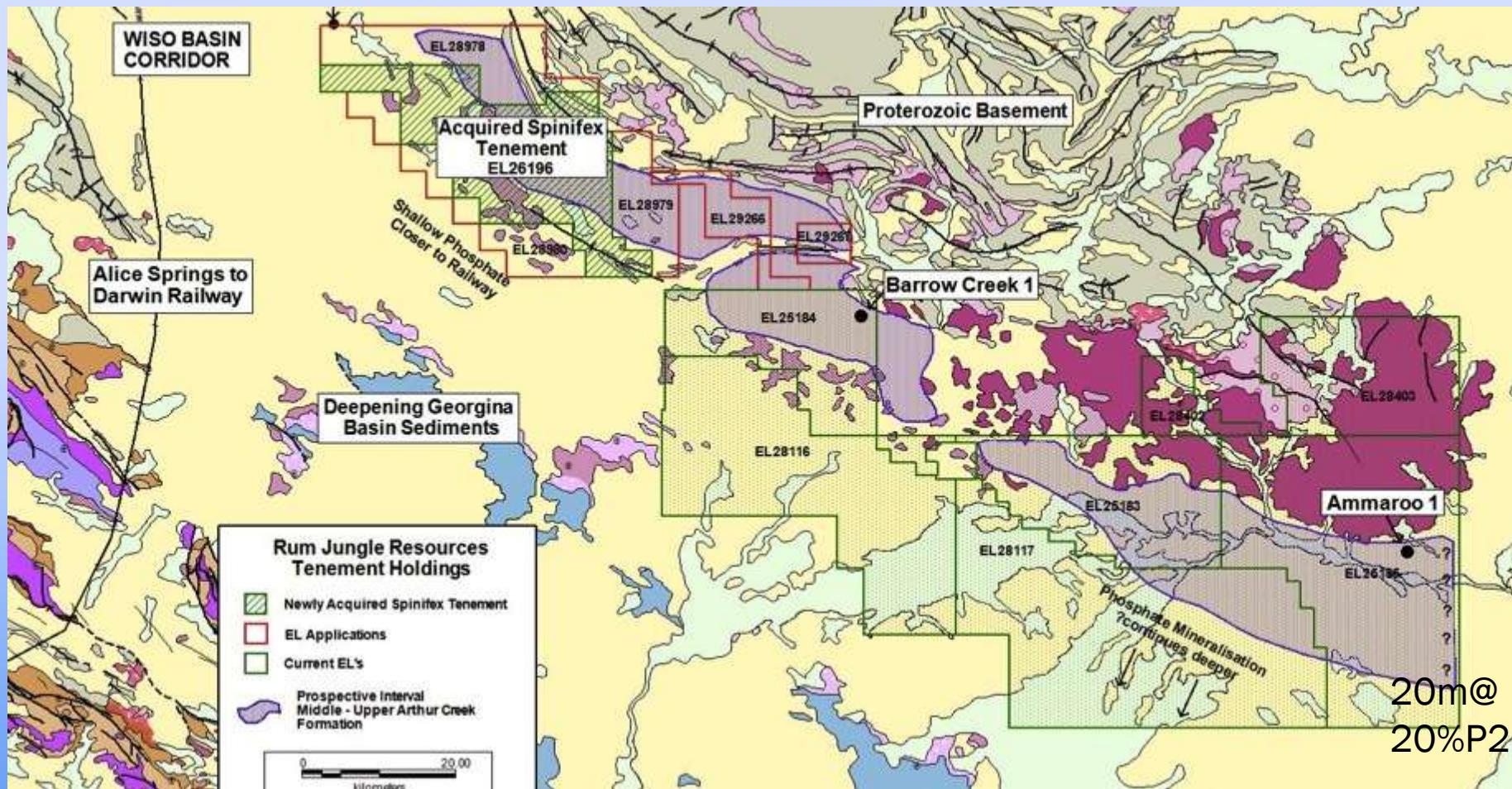
RESOURCE ESTIMATE DRILLING COMPLETED SEPTEMBER 2012. TOTAL 2082 RC HOLES FOR 61,221 METERS. TOTAL 32 DIAMOND DRILL CORE INTERSECTIONS. INITIAL INFERRED RESOURCE OF 253,000 TONNES AT 15% P205 LIKELY TO BE UPGRADED OCTOBER 2012



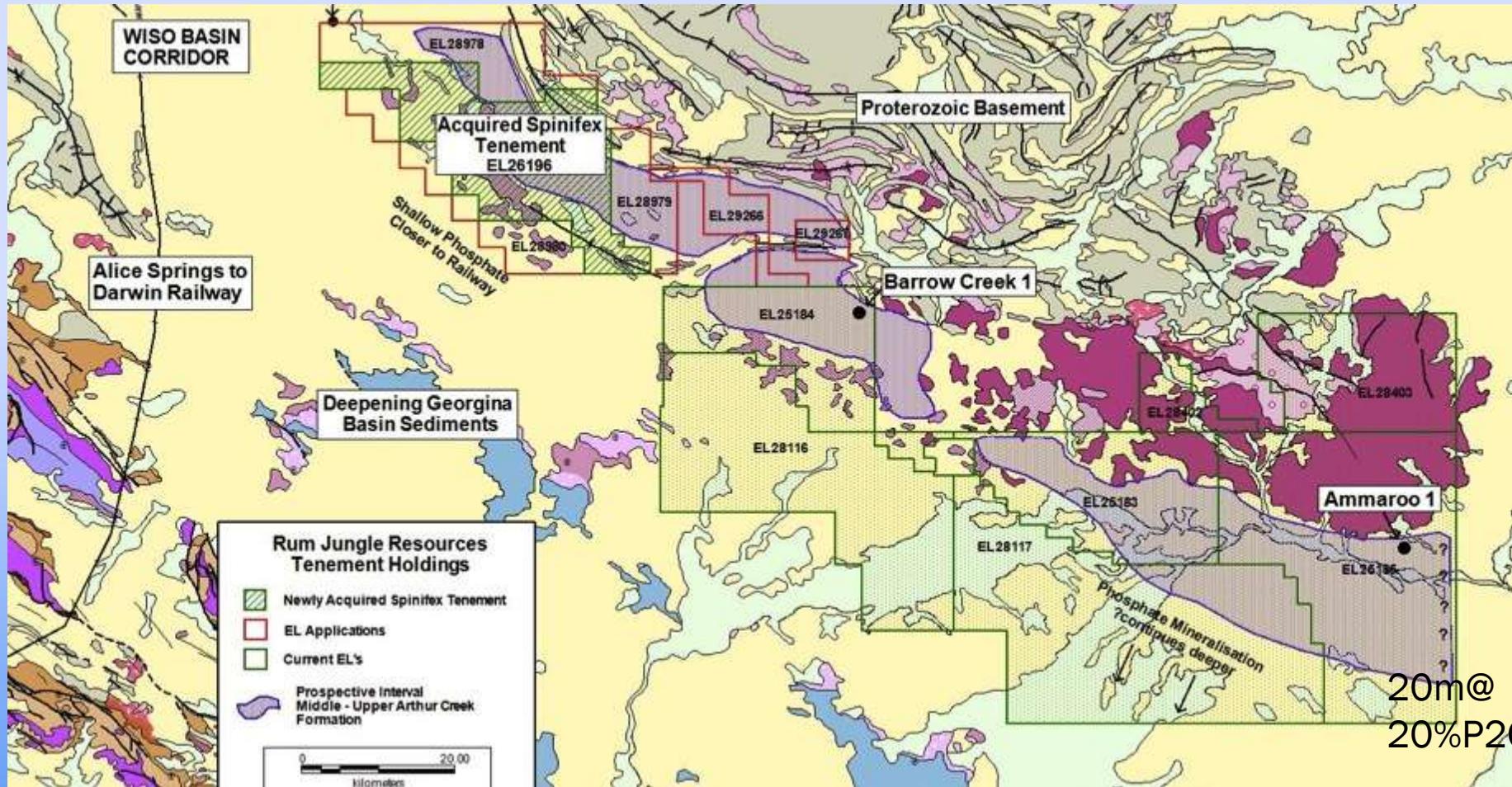
资源估算钻探在2012年9月完成。总计2082 RC钻孔，共61,221米。总计32金刚石取心
钻探交点。2012年10月可能升级253,000吨品位在15% P205的初步推断资源量



TENEMENT HOLDINGS MARCH 2012



2012年3月持有的矿权地





THE KARINGA CREEK POTASH DISCOVERY BY RUM JUNGLE RESOURCES LTD, LASSITER HIGHWAY, NORTHERN TERRITORY, AUSTRALIA

LOGISTICS OPERATION 2



RUM JUNGLE资源有限公司在澳大利亚北领地
LASSITER公路发现的**KARINGA CREEK**钾矿

物流运营2

Potash Demand Outlook

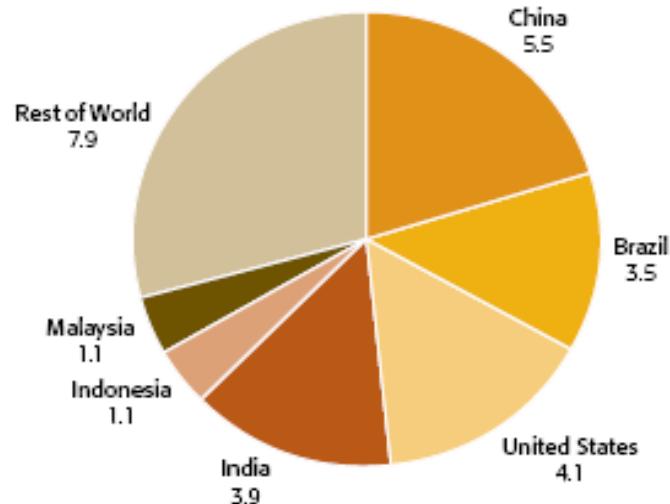


Source: Potash Corp Estimates, 2010

WORLD POTASH USE BY COUNTRY

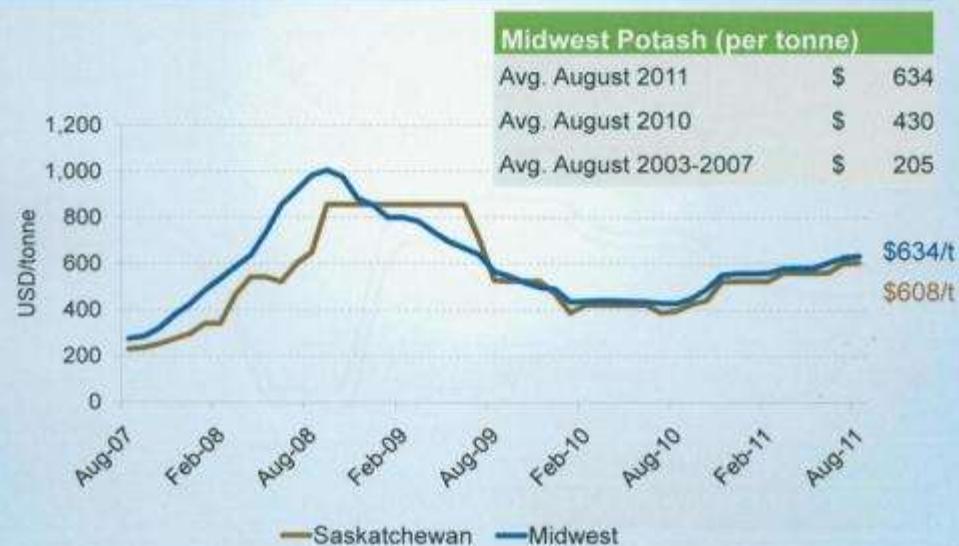
MILLION TONNES K₂O

SOURCE: IFA JUNE 2010



Forecasted 2010/2011 Fertilizer Year

Benchmark Prices: Potash

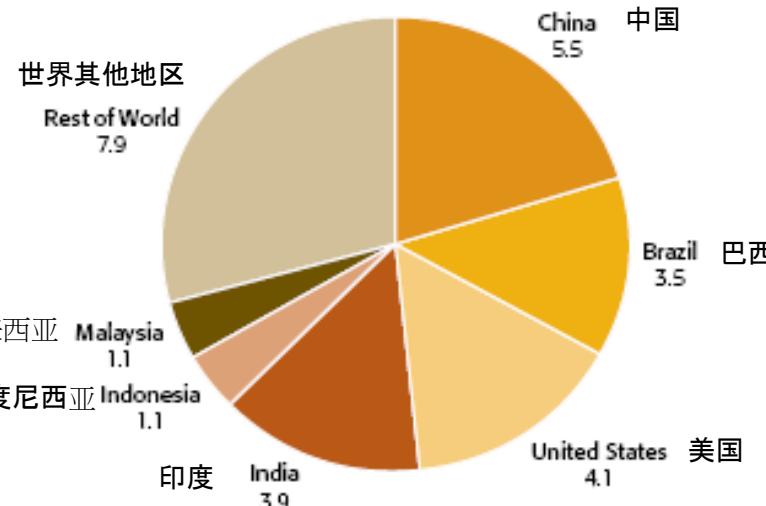


- Increasing demand, particularly from India, China, US
- Price tripled since 2007



MILLION TONNES K₂O

SOURCE: IFA JUNE 2010



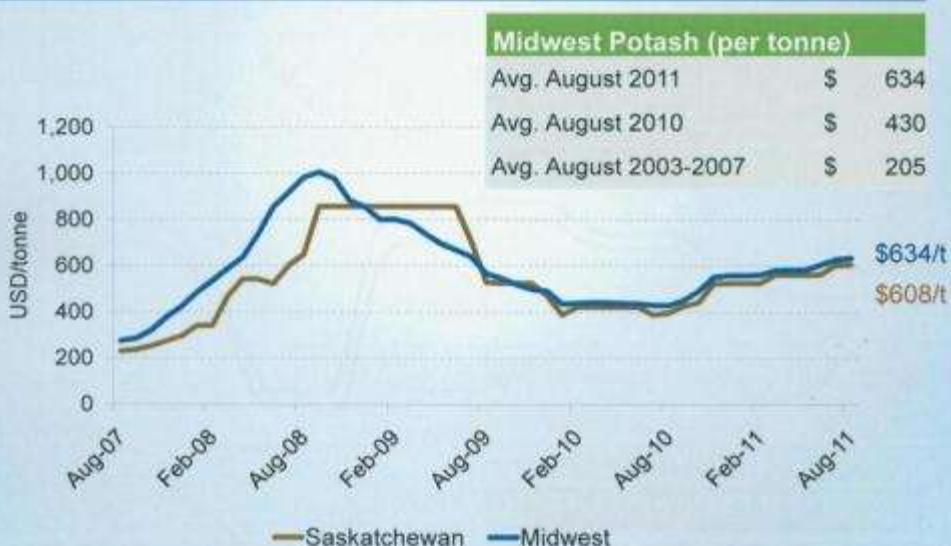
Forecasted 2010/2011 Fertilizer Year

来源:ce:
<http://www.marketoracle.co.uk/>



Source: Potash Corp Estimates, 2010

基准价格：钾矿



- 需求日益增加，印度、中国和美国尤其如此
- 2007年以来价格已经涨到3倍

Mount Ebenezer

**Curtin
Springs**

EL28205

EL28272

E 28872

EL28273

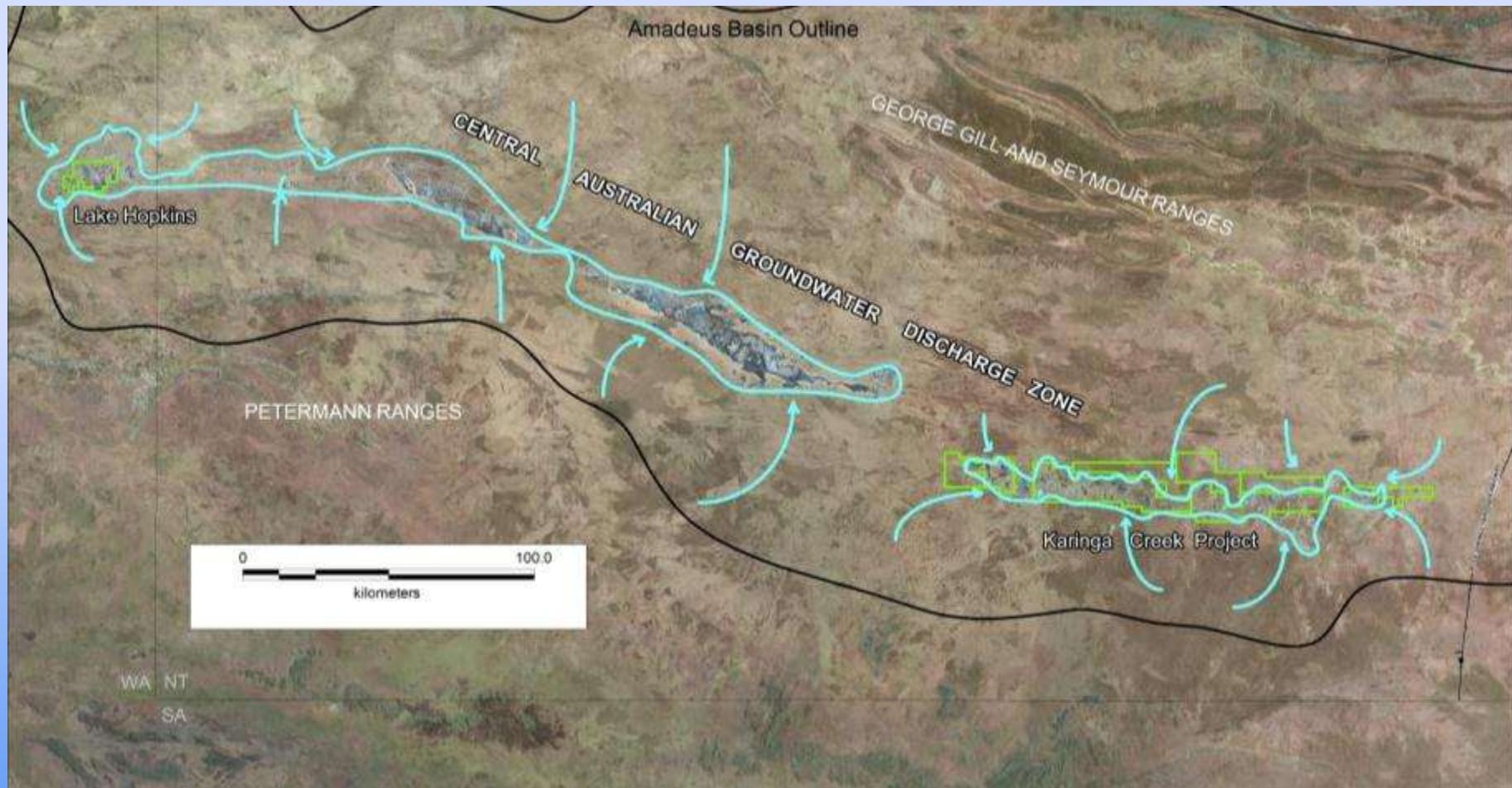
EL25080

EL24987

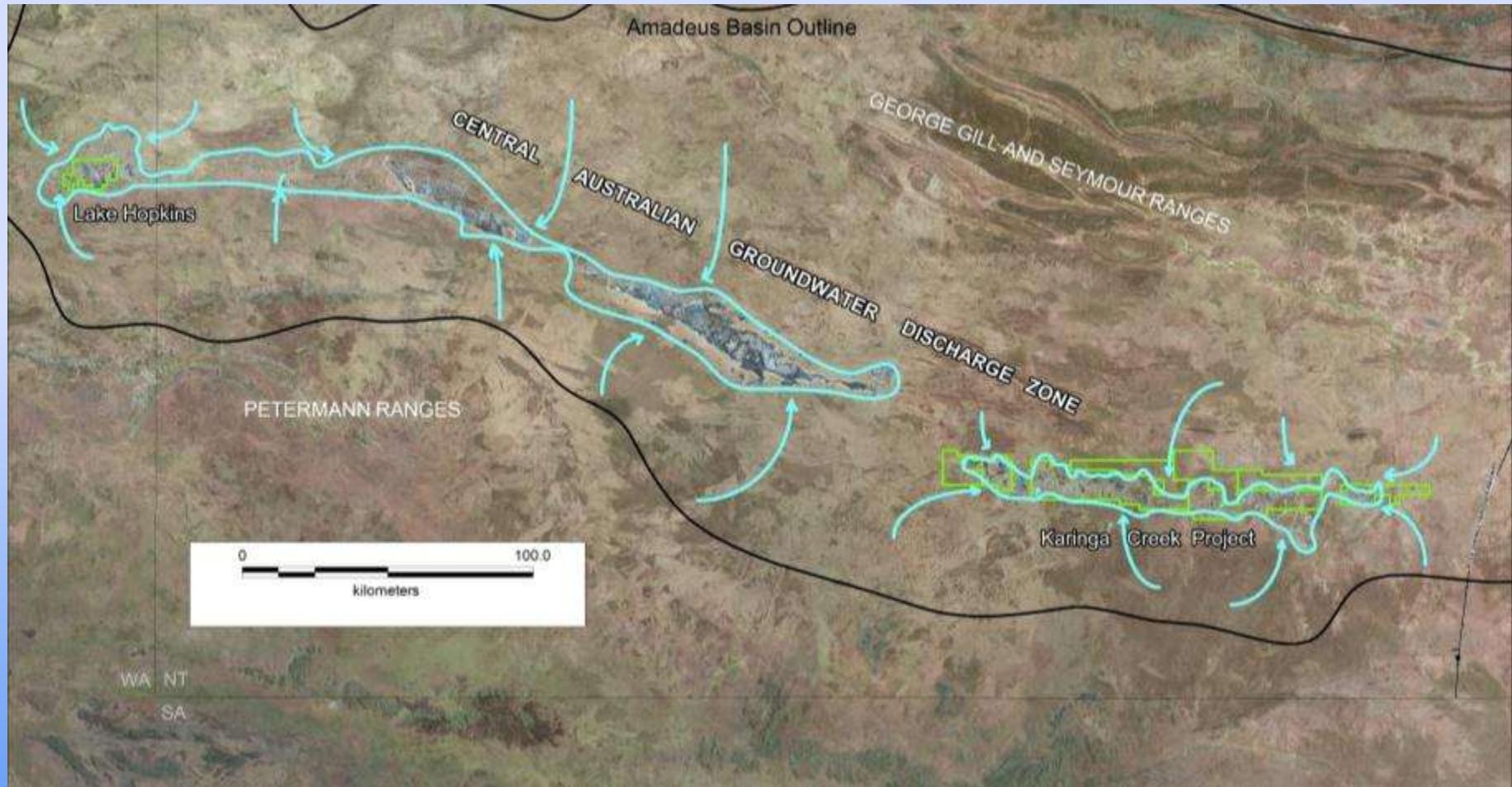
0 20.00
kilometers

Scale: 1:658,800

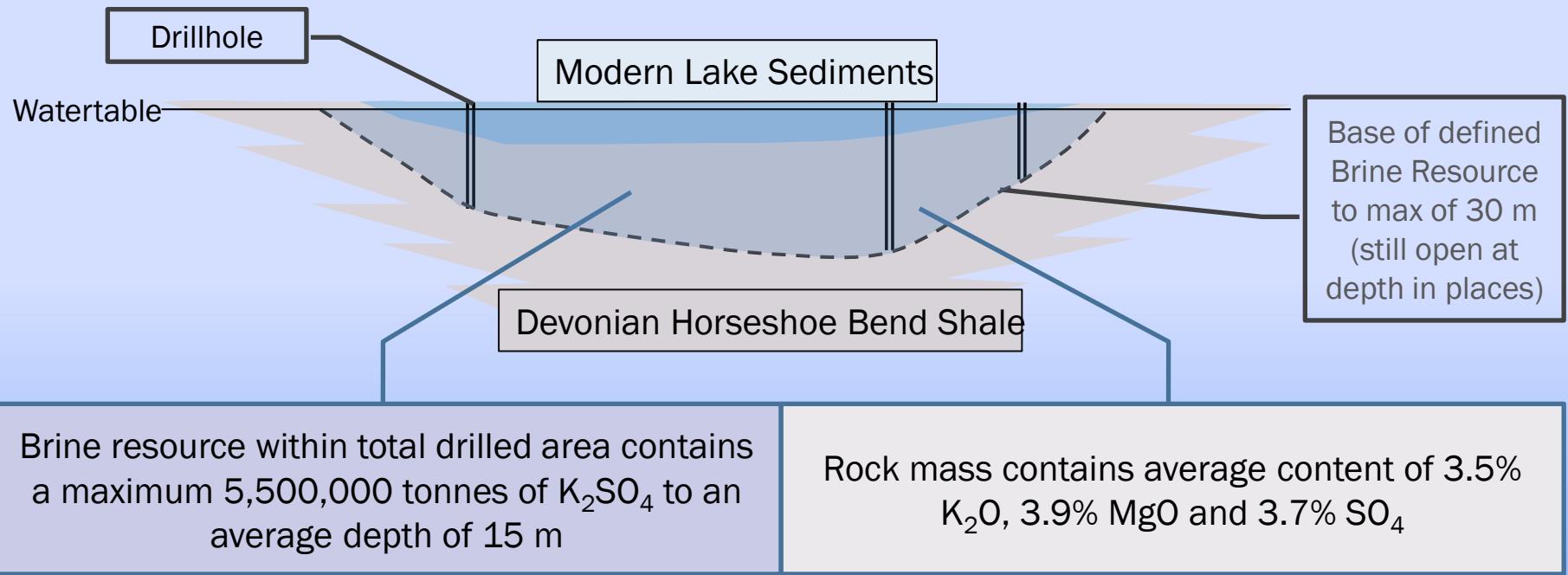
ACCUMULATION OF POTASH SALTS IN CENTRAL AUSTRALIAN GROUNDWATER DISCHARGE ZONE



澳大利亚中部地下水排泄区的钾盐积累

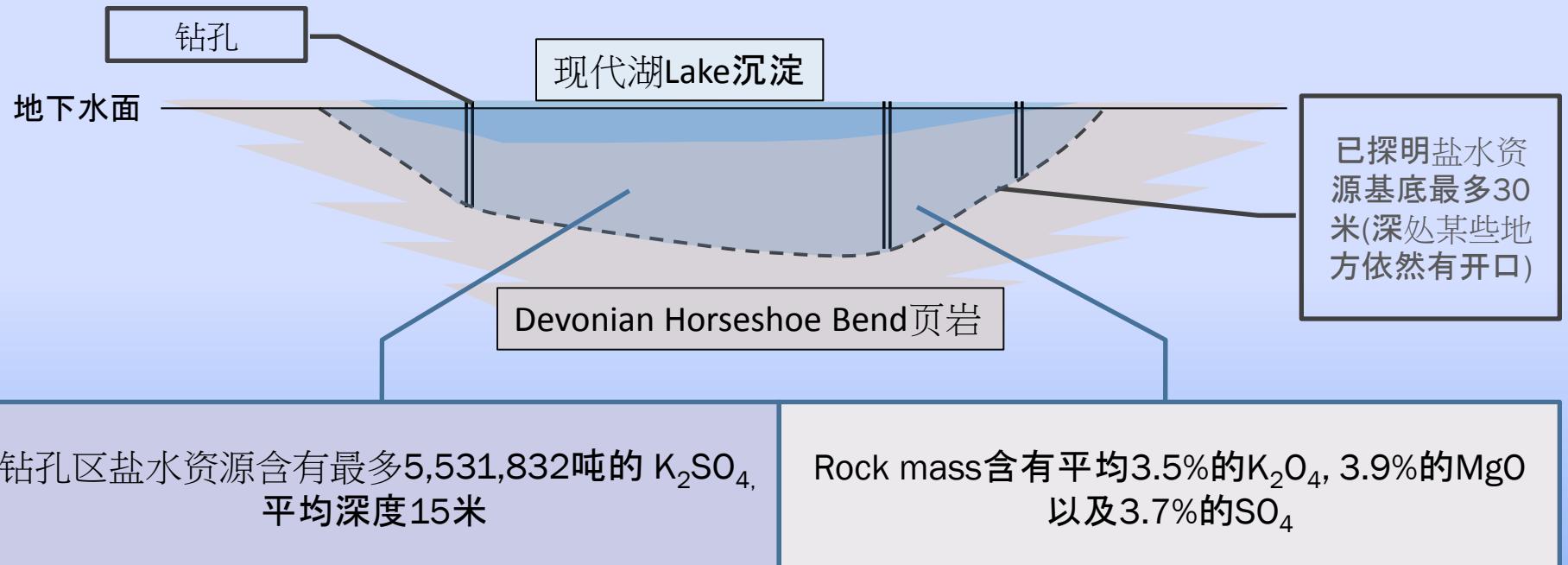


ACCUMULATION OF POTASH SALTS IN CENTRAL AUSTRALIAN GROUNDWATER DISCHARGE ZONE



Schematic section – not to scale

澳大利亚中部地下水排泄区的钾盐积累



图解部分 – 未按比例

Karinga Creek Potash Project 2010 - 2012

- ✖ Joint Venture with Reward Minerals (Lake Disappointment, WA) RUM holds around 85%.
- ✖ First pass environmental surveys completed
- ✖ Extensive brine sampling in 2010 and 2011 produced encouraging results
- ✖ Bench-scale tests confirm schoenite can be produced by two-stage evaporation
- ✖ Deep drilling, sampling and flow testing completed 2012 to upsize potential
- ✖ New resource calculation and hydro-geological study underway to commence scoping study

2010 – 2012年Karinga Creek钾矿项目

- ✖ 与Reward Minerals (西澳Lake Disappointment)合资，RUM持股约85%。
- ✖ 第一轮环境调查通过
- ✖ 2010年和2011年的大量盐水取样得到了积极的结果
- ✖ 实验室实验证实可通过两级蒸发生产软钾镁矾
- ✖ 2012年完成了深部钻探、取样和流量试验，以提高潜力
- ✖ 开始概略研究的新资源量计算和水文地质研究正在进行当中

The Devonian “Basement”



Outcrop of weathered biotitic and evaporitic
Horseshoe Bend Shale around and under the lakes



Brine inflow in shallow siltstone pits



Devonian “基底”



湖周和湖底风化黑云母
和蒸发岩Horseshoe Bend页岩露头

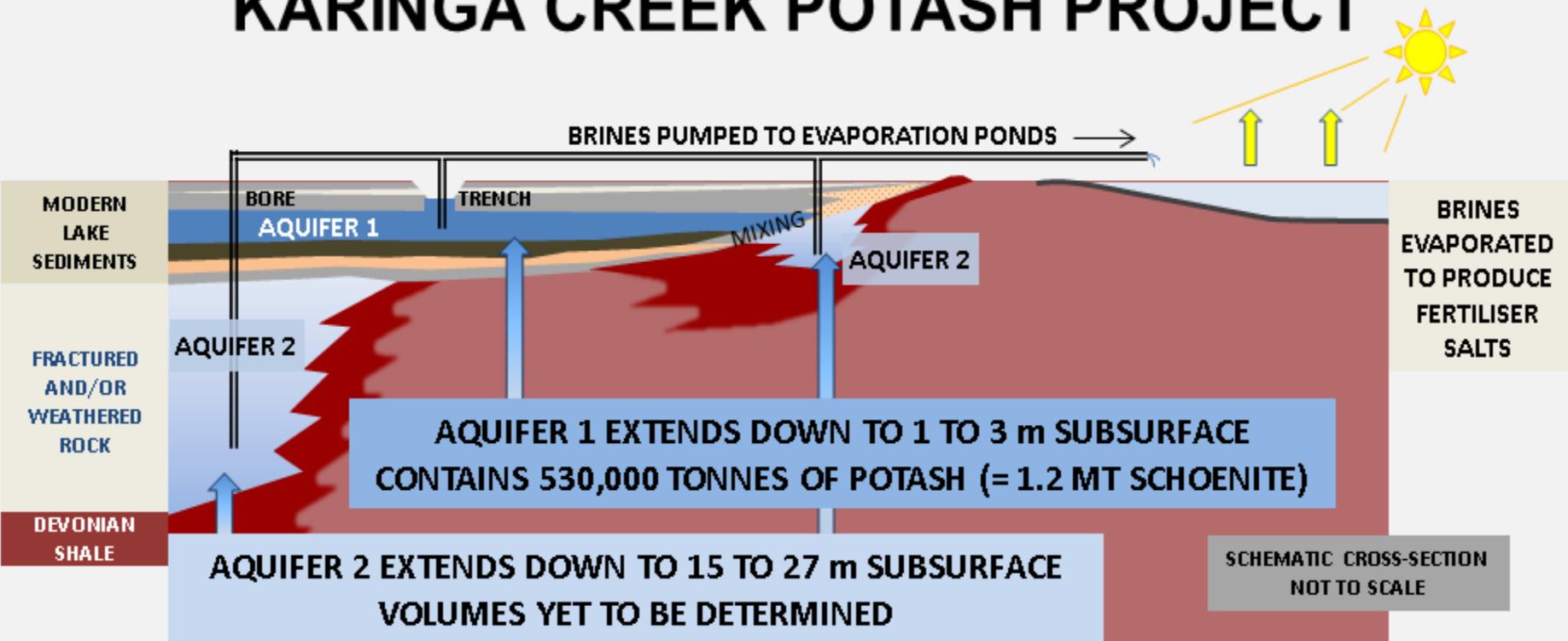


浅粉砂岩坑的盐水入流



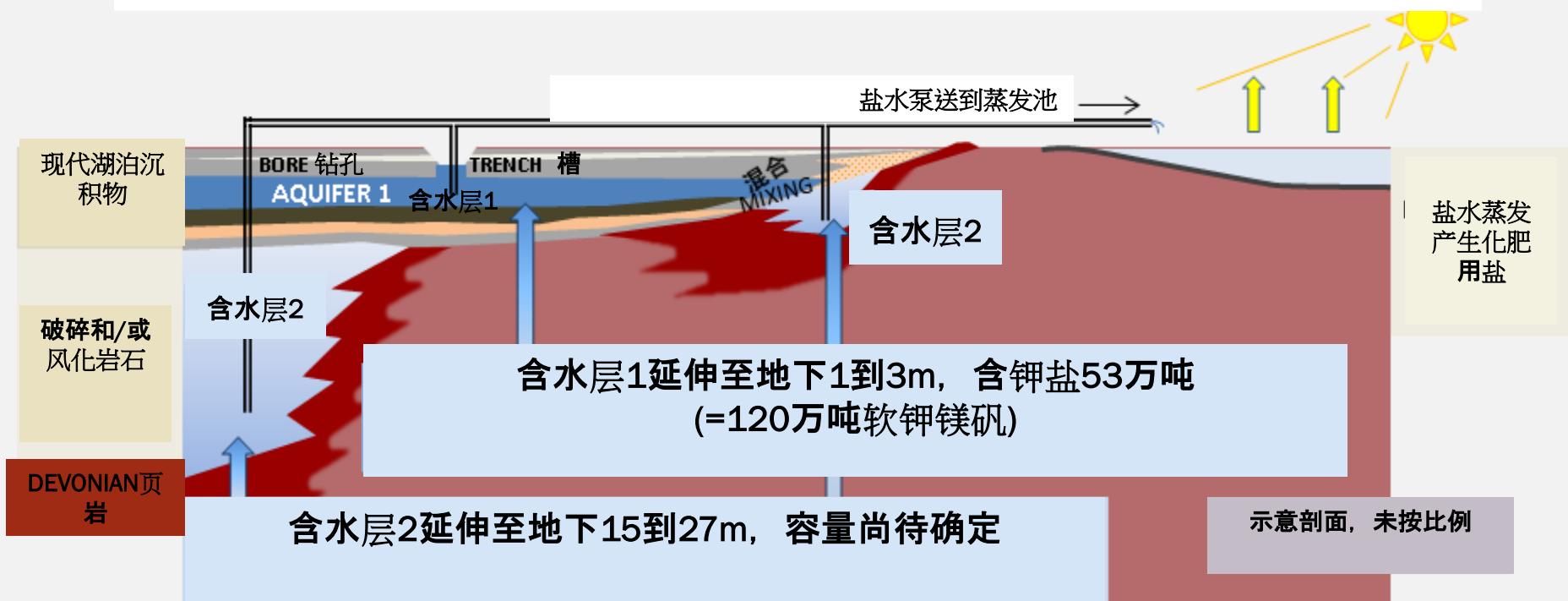
AQUIFER 1 AND AQUIFER 2 DEMONSTRATED TO BE A SINGLE LARGE AQUIFER OF THE CENTRAL AUSTRALIAN GROUNDWATER DISCHARGE ZONE

KARINGA CREEK POTASH PROJECT



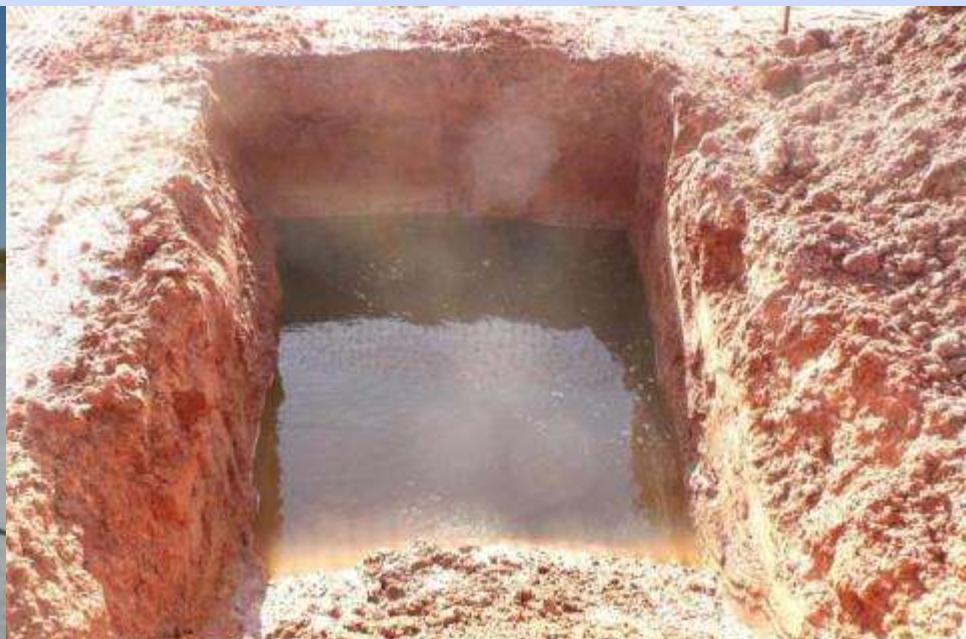
含水层1和含水层2证明为澳大利亚中部地下水排泄区的单个大型含水层

KARINGA CREEK 钾矿项目



RUMs 2010 Sampling

- hand-dug holes to geochemically sample brines
- brine chemistry varies considerably within and between lakes
- bench scale tests confirmed that two-stage evaporation can produce schoenite from at least some of the lake brines
- small test pits for pump tests to check recharge rates
- encouraging over short time frame, need much longer duration tests to account for seasonal fluctuations



Rum Jungle test pit 2010

RUM 2010年取样

- 手动挖坑进行盐水地球化学取样
- 湖泊内和湖泊间的盐水化学成本差异很大
- 实验室实验确认了至少一些湖泊的盐水可通过两级蒸发生产软钾镁矾
- 小型试验坑进行泵送实验检查排泄速度
- 在较短时间框架内有积极结果的前提下，需要更长周期的实验，将季节性波动考虑在内



Rum Jungle在2010年的实验坑

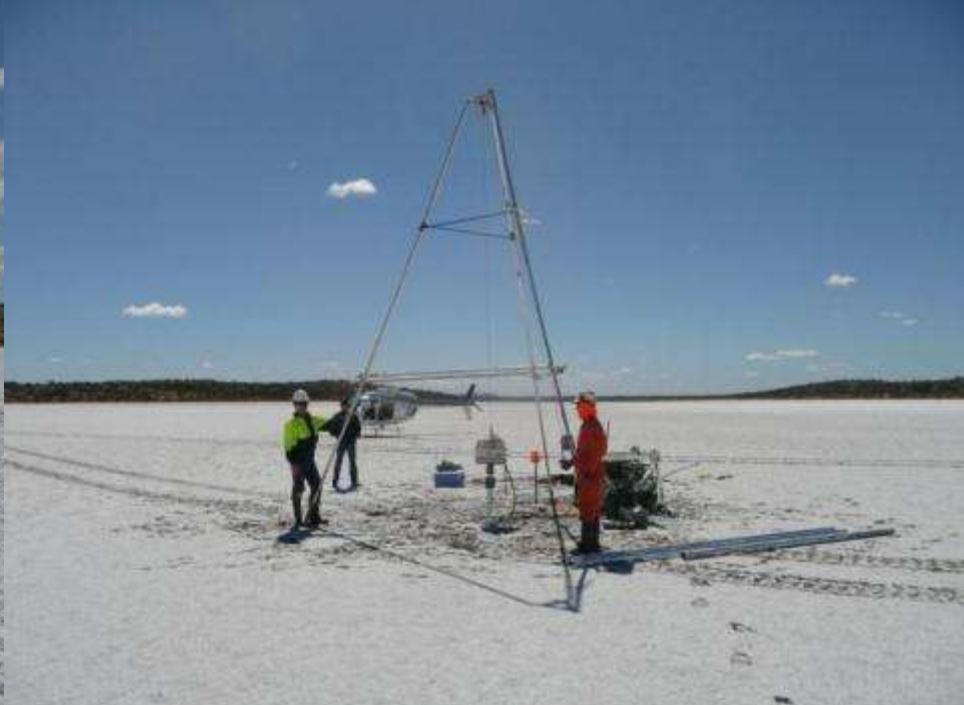
Vibracore drilling September 2011



Sonic drilling October 2011
a dozen piezometers installed



2011年9月振动钻孔



2011年10月声波钻孔
安装了十几个测压计



JORC Resource

- 1.2 Mt schoenite = 530,000 t potash
- based on limited work to 2011
- more lakes yet to be included
- only to 3 m depth
- should increase substantially with deeper drilling

	Number of Lakes	Kg / m ³ brine	K ₂ SO ₄ (tonnes)
Inferred	9	3.90	52,000
Indicated	7	4.23	477,000
Total	16		530,000

JORC资源量

- 120万吨软钾镁矾= 530,000 吨钾
- 基于截至2011年的有限工作
- 更多湖泊尚未纳入
- 仅到达3米深度
- 通过更深的钻探应会持续增加

	湖泊数目	Kg / m ³ 盐水	K ₂ SO ₄ (吨)
推断	9	3.90	52,000
控制	7	4.23	477,000
总计	16		530,000

Waterbore Drilling May 2012, dozens of piezometers to be installed



2012年5月水面钻探，安装了数十个测压计



FLOW TESTING OF BORES



钻孔流量试验



FLOW TESTING OF BORES

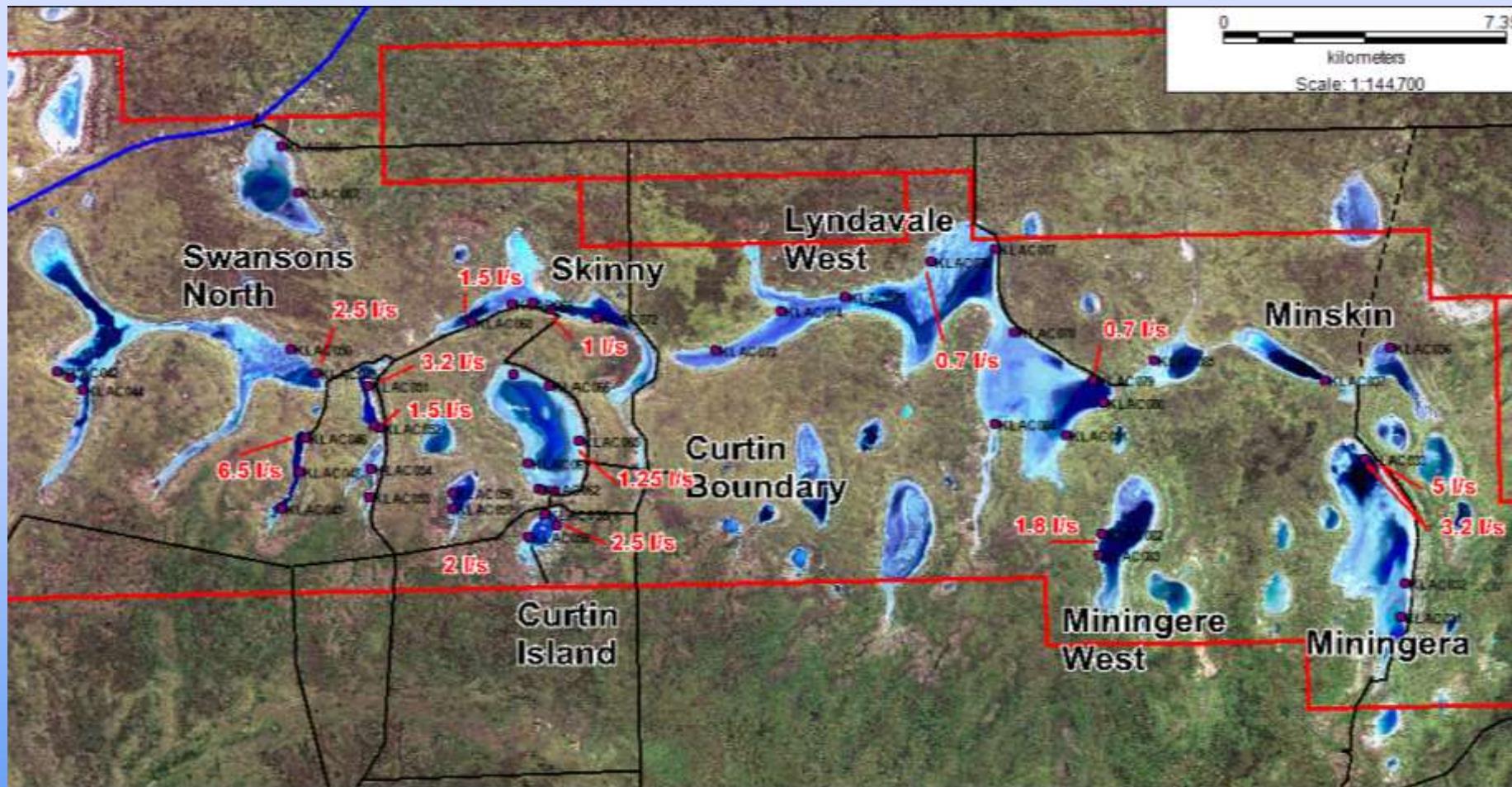


钻孔流量试验

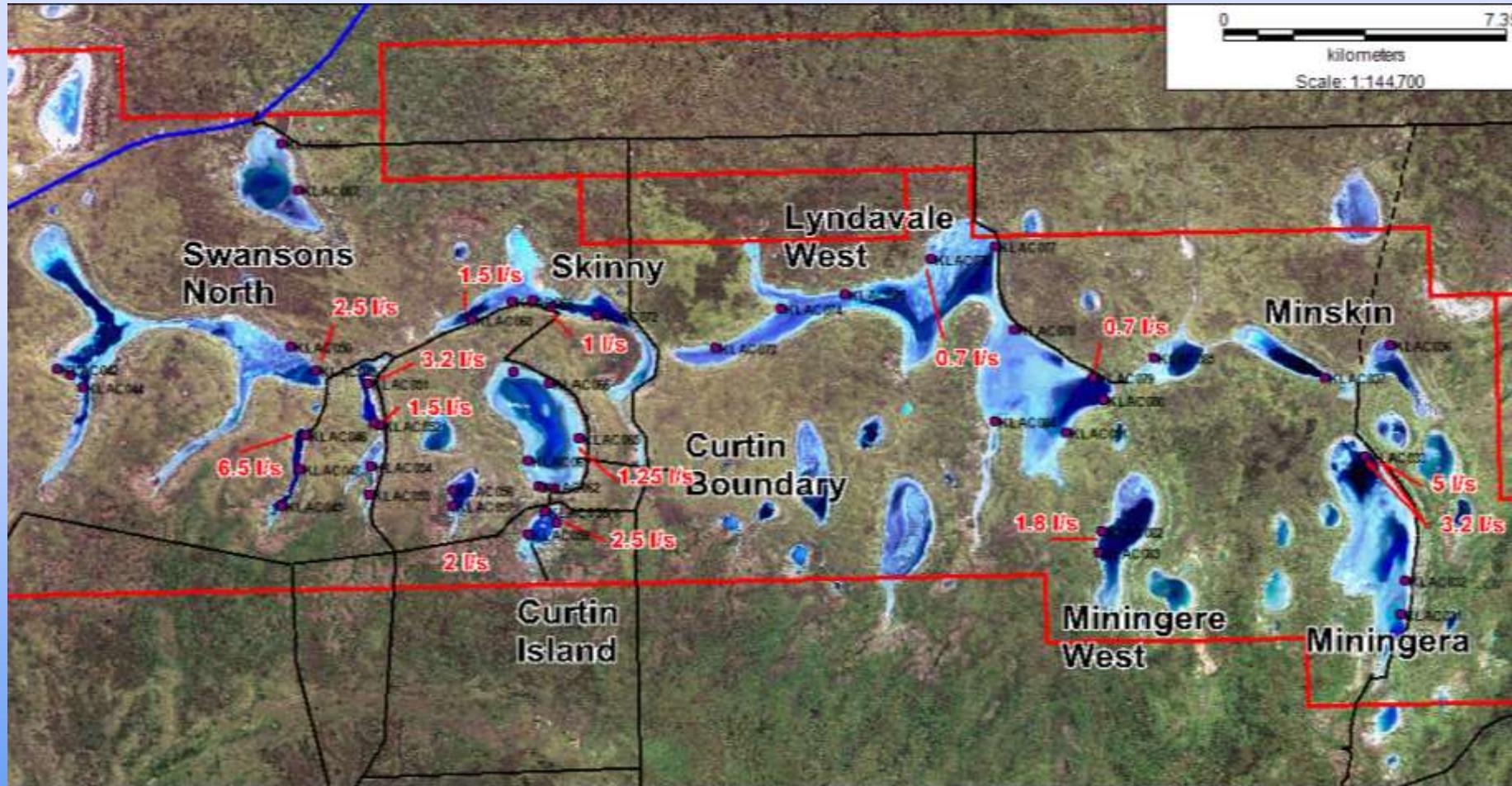




CENTRAL LAKES FLOW RATES FROM DRILL HOLES



钻孔的中央湖泊流量



ADDITION OF LAKE HOPKINS COULD ADD ANOTHER MAJOR RESOURCE



增加HOPKINS湖可能又加上了另一个重要的资源



EXAMPLES OF OPERATIONS IN CHINA AND CHILE

在中国和智利运营矿的实例

Chinese Schoenite Operation



中国的软钾镁矾矿



LINED PONDS ATACAMA CHILE



智利的ATACAMA衬层池



ATACAMA EVAPORATION PONDS



ATACAMA蒸發池



THE WAY FORWARD

- ✖ Completed Drilling Program
- ✖ Completed pump testing of 10 best bores
- ✖ Get approval for trenching and then flow test trenches for 5 days
- ✖ Resource upgraded November 2012
- ✖ Geotechnical testing of soils for evaporation pond lining (either lake sites or flat lying areas)
- ✖ Process route testing to prove up final products and by-products

未来方向

- ✖ 完成钻探计划
- ✖ 完成10个最佳钻孔的泵送实验
- ✖ 取得掘槽批准，然后进行5天的沟槽流量实验
- ✖ 2012年11月资源量升级
- ✖ 蒸发池衬层的土壤岩土工程技术实验 (湖泊现场或平伏区域)
- ✖ 工艺流程实验，验证成品和副产物

Thank You

谢谢