Welcome to BHP Billiton Iron Ore Mining Operations







Business Analysts visit 11 – 12 September 2003



Visitor Safety Induction

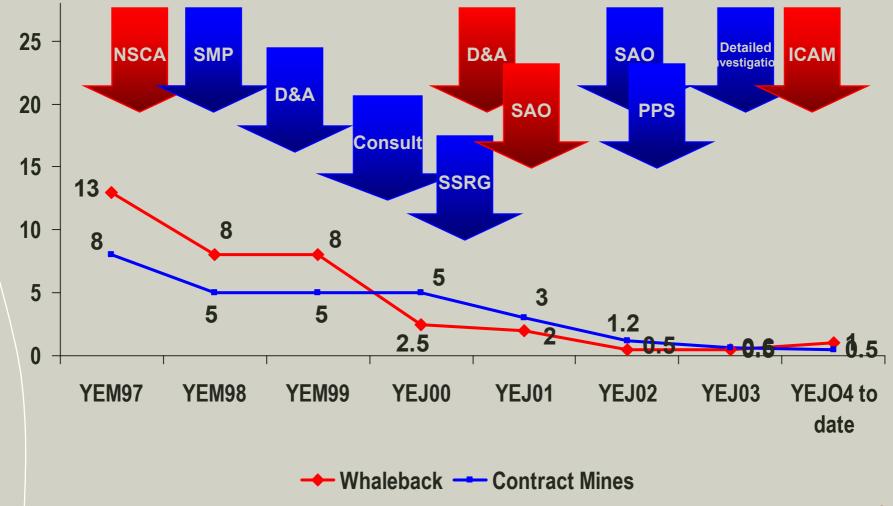
Welcome to Newman

- 1. Stay with your BHP Billiton escort at all times.
- 2. Reflective vests, gloves and safety helmets are provided and you will be advised when to wear them.
- 3. Safety glasses are provided. You will be advised when it is necessary to wear them. Safety glasses will fit over prescription glasses.
- 4. Use handrails when using stairs.
- 5. Keep clear of all machinery.
- 6. In the event of an evacuation or emergency stay with your BHP Billiton escort
- 7. BHP Billiton has a NO-SMOKING policy inside buildings and vehicles.
- 8. You are most welcome to use cameras.

Enjoy your visit with us today



LTIFR - Whaleback and Contract Mines



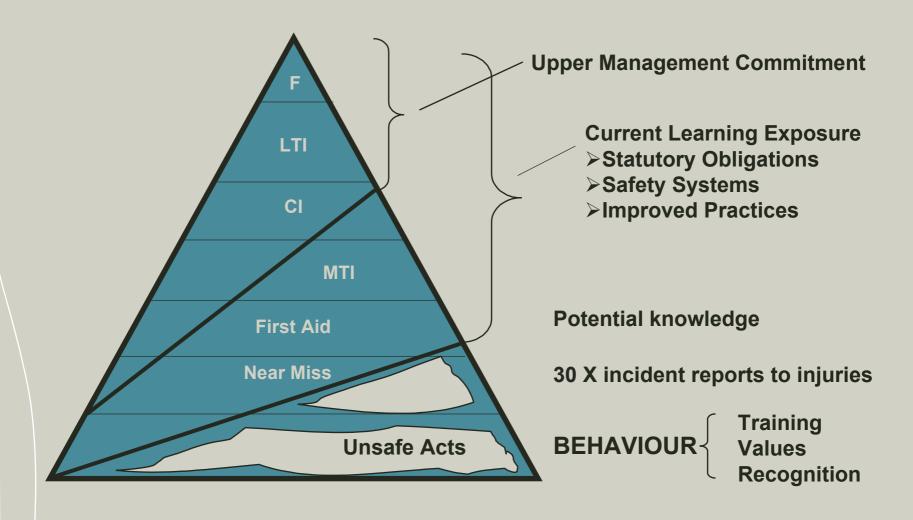


CIFR - Whaleback & Contract Mines 2003





Behavioural Safety





Mining Strategic Focus: 2003 - 2008

Key Points

- Achieve / exceed goals through good planning
- Think beyond short term / regional horizons
- Gain strategic benefits
- People management become employer of choice
- Organisation consistency
- Secure support for business decisions
- Pace of restructuring
- Keep it simple
- Growth



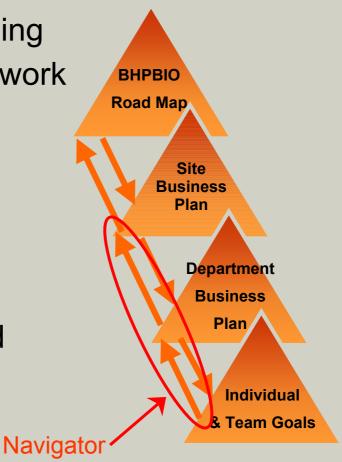
YEJ04 Mining Group Roadmap

Health & Safety	Environment	Community Relations	People Management	Cost	Efficiency	Planning	Product Quality	Tonnage	Growth
Extend Behavioural Based Safety	Manage Hydro- Carbon Waste & Spills	Manage Aboriginal Affairs Business Commitments	Attract & Retain Employees	Contract Efficiencies	Deliver on Navigator	Goldsworthy Options - Cost Benefit	CSMS Upgrades	Ramp Up Production Tonnages	Crowth Planning, Capability & Awareness
Fitness for Work	Reduce Mine Emissions	Align Business and Local Community Objectives	Build Indigenous Employment Capability	Cost Reduction At Whaleback	Capital Management Process	Improve Management with Government Obligations	Mine Product Moisture Control	Reduce Departmental Boundaries / Tonnage Losses	Own & Implement Long Term Expansion Outcomes
Implement Fatal Risk Protocol		Ennance Local Trainee and Apprenticeship Programmes	Fully Engage Workforce	Contract Efficiencies Contract Mines	Communications Across Site	Manage Land Tenure	Improve Ore Sampling	Tonnage Expansion Realisation - Area C	Maximise Yandi Resource
Occupational Hygiene	HSEC Integration				Information Business Systems: Value from Existing Systems	Resource & Reserve Classification & Reporting		Increase Goldsworthy Ore Car Dumper Rates	Upgrade Newman JV Product
Contr	actor HSEC Manager	nent	H W			Integrate Area C into Business	D		
Informatio	on Business Systems	- HSEC				Integrated Processes			
Integrate HSEC :	Standards and Corpo	orate Initiatives	1	183		Progress Closure Planning Process			

Navigator – Business Planning Alignment & Involvement

 Strengthening business planning through greater input from all work groups and OE processes

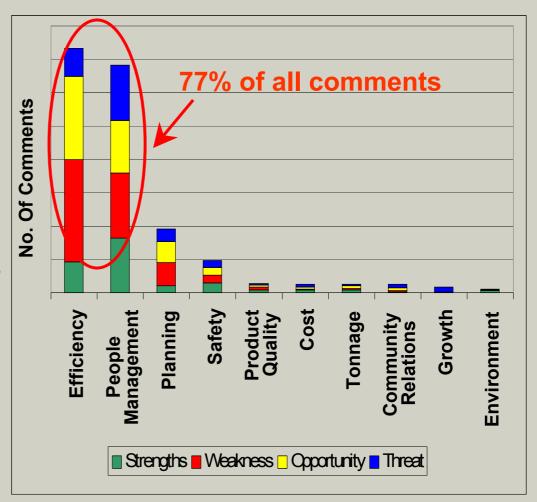
- 54 sessions across all workgroups
- 460 participants
- 1834 comments collected and analysed





Navigator - Results

- Efficiency
 - Communication
 - Systems & Processes
 - Maintenance & Equipment Availability
- People Management
 - Working Arrangements& Workload
 - Skills Development
- Operating Excellence projects are under way with workgroups





Location Map

Newman to Nelson Point - 426km

 Jimblebar spur line is 32km

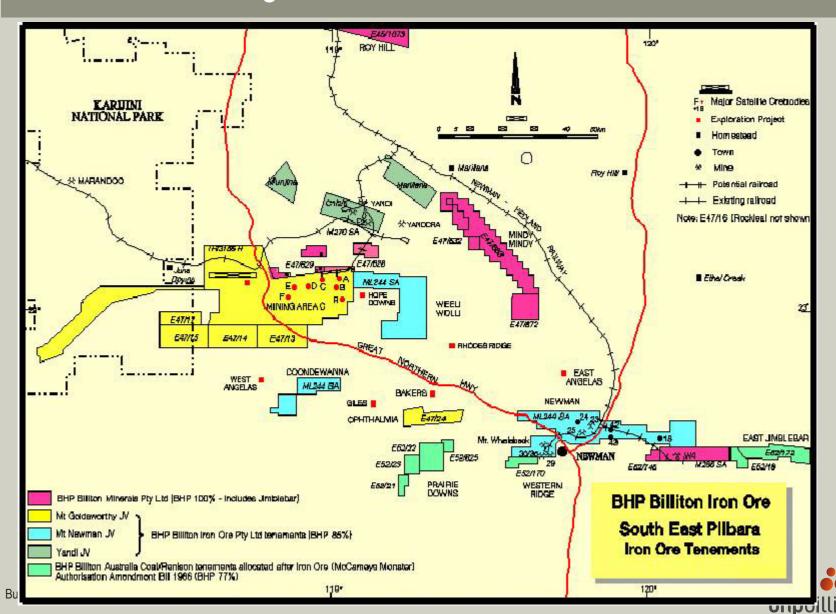
Yandi to Nelson Point - 310 km

- Yandi spur line is 30km
- Area C proposed spur line extension from Yandi is 38km

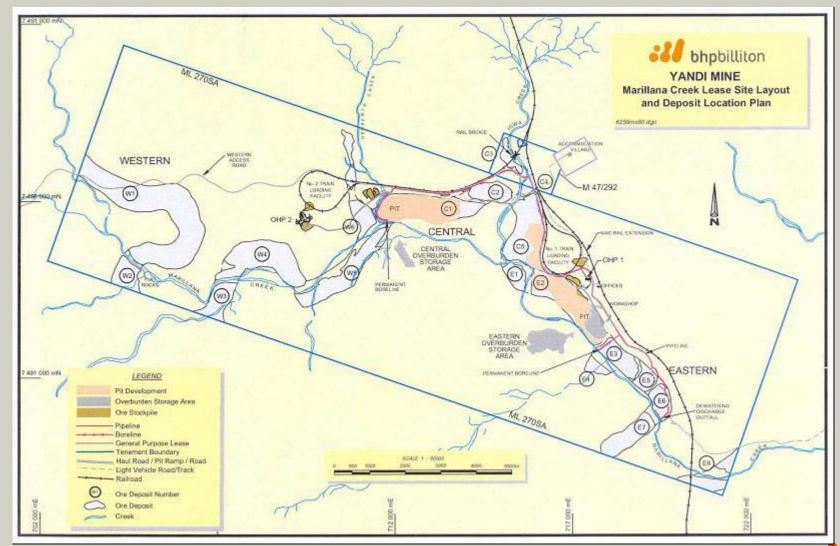
Yarrie to Finucane Island - 208km



S.E. Pilbara Mining Tenements



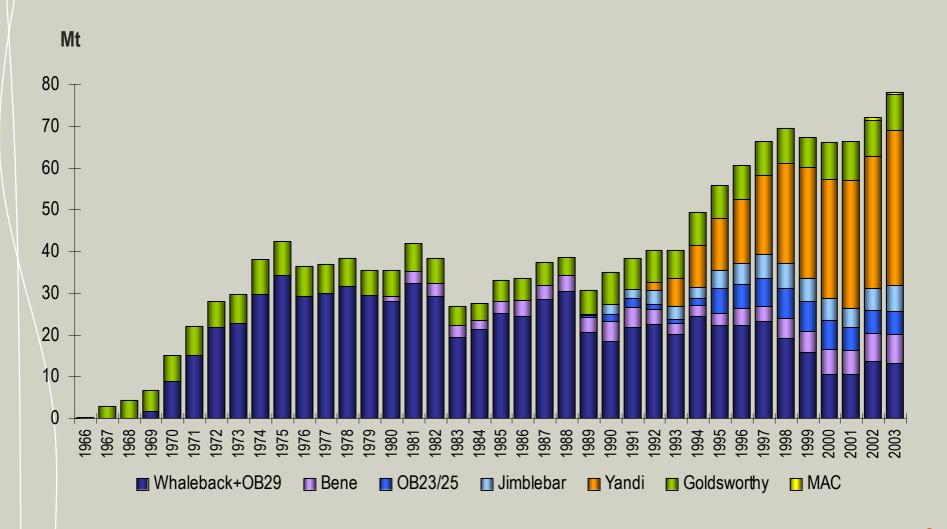
Yandi Mining Lease



Goldsworthy Mining Leases

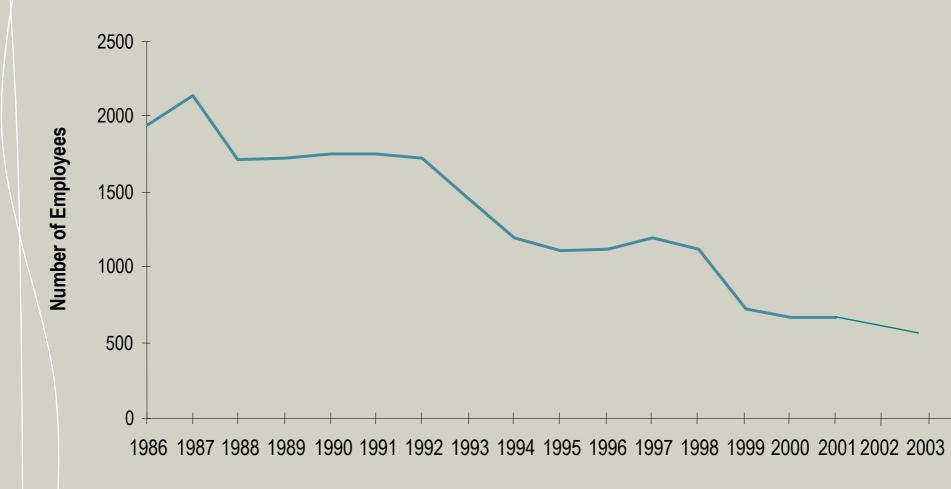


Mine Production – Million tonnes





Mt Whaleback Employee Numbers



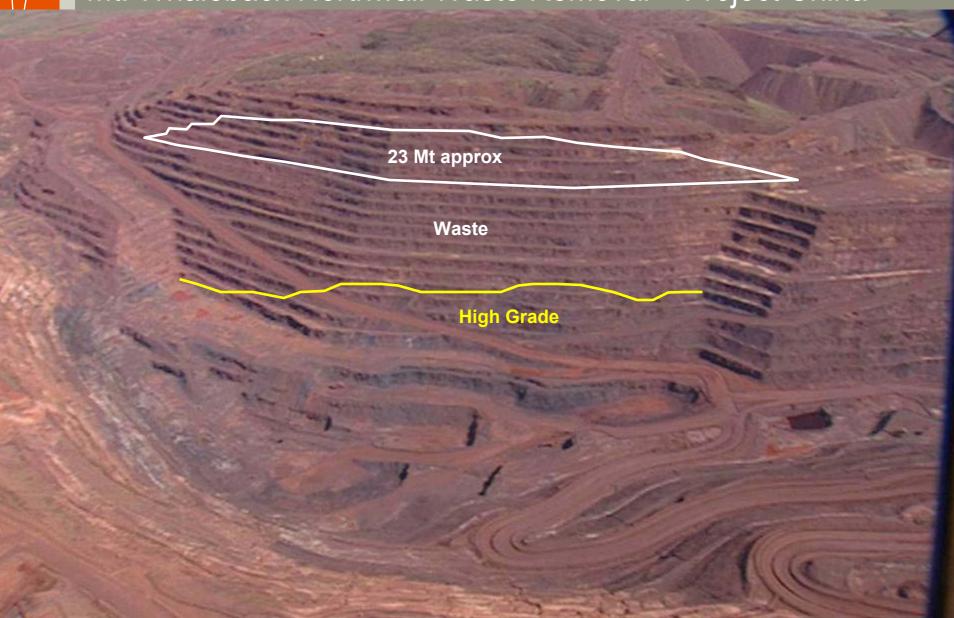
Mt. Whaleback Pit



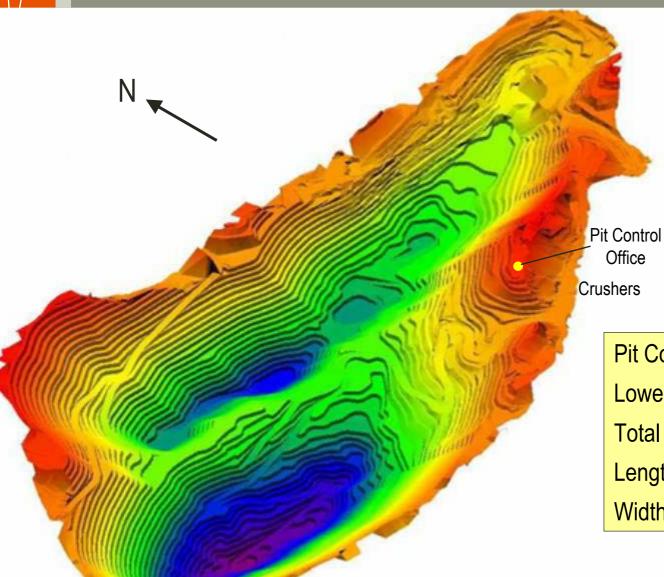
Mt. Whaleback



Mt. Whaleback Northwall Waste Removal – Project China



Mt. Whaleback Ultimate Pit Design



- Core ore source for the next 30 years
- Controls chemical and physical properties of the blend

Pit Control Office 690 mRI

Lowest Point 190 mRI

Total Depth ≈ 500 m

Length 5 kms

Width 2 kms



Beneficiation Plant



Orebody 25 & 23

Satellite Orebodies Offer Blending Flexibility Orebody 25 Flexible contractor mining operation Operational flexibility – crushing/screening options All ore reserves above water table Orebody 23 Maintained as standby HGO source Advanced pit development Dewatering system designed to allow rapid start up

Jimblebar – Wheelarra 4 Pit

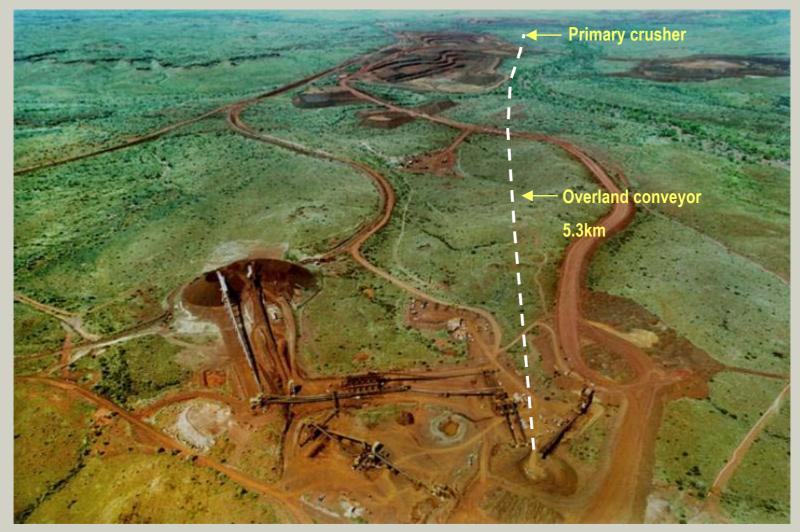


Yandi Central 1 Central 5





Yandi OHP2 to Central 1



Area C Progress

- Mining Contract awarded 1 April 2003
- HWE mobilisation commenced 24 April 2003
- First Mining 15 May 2003
- First Ore crushed 21 July 2003
- Commissioning of reclaimer and train loading system began 8
 August
- 1st loaded train departed 14 August 2003
- Providing feed from the Bulk Sample Stockpiles and direct from the pit to the Processing Plant as part of Load Commissioning
- Transfer of responsibilities from ADP to Mining Operations on 1 September 2003



Area C



Stacker & Reclaimer at Area C



Area C – Moisture Control Program





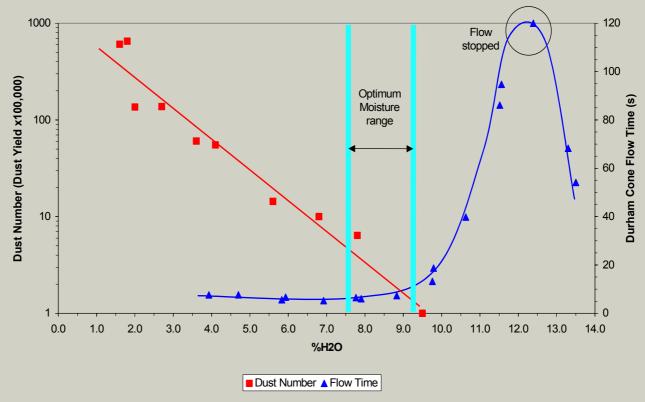
Bulk Ore Conditioning Sprays used to increase moisture and reduce overall dust levels.

Overall moisture conditioning levels of 3% for fines and 4% lump ores

Additional moisture controls are via train loadout, rail and port.

Area C Quality Control - Moisture

MAC[™] Fines



- Fines moisture targets based on dust extinction and flow studies
 - Initially will target 7.5-8.0% moisture
 - Will be reviewed with customers based on operational experience
- On-line low frequency microwave moisture analysers in new processing plant will automate process for moisture control of fines

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Goldsworthy Yarrie Mine



Yarrie Sunrise Hill West



Mining Operations Improvement Initiatives



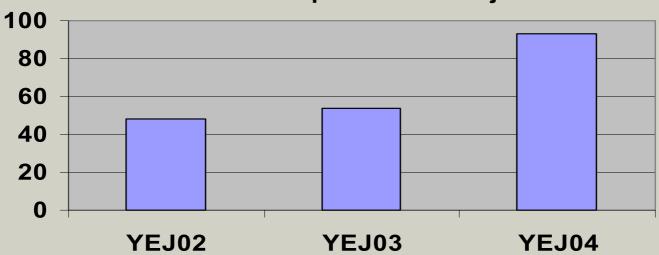






Business Improvement YEJ04

Number Of Improvement Projects



- Operating Excellence
 - 9 Full Time, 3 Part Time, Black Belt Coaches
 - 109 Attended OE Basics training
 - 28 OE Champions



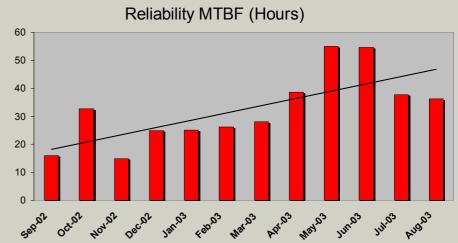
Operating Excellence Project CAT 994 Loader Operator Driven Reliability

Improved Operating Techniques & Teamwork between Maintenance and Production Departments:

- Increased availability from 72% to 85%.
- Increased Mean Time Between Failure from 22 hours to 46 hours.

Next step is to roll out to our Shovel and Truck fleets.

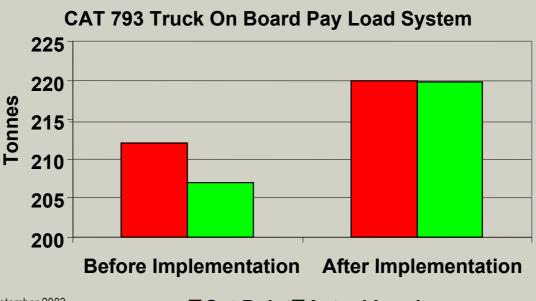






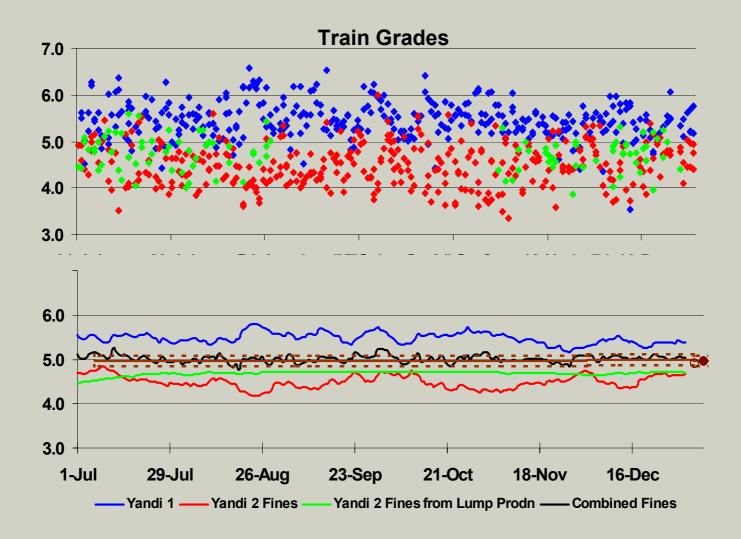
Operating Excellence Project CAT 793 Truck Load Factor Study

- Onboard Load System critical to achieving truck tonnage targets only effective measure for Shovel operators.
- Inaccuracies meant systematically underloading 793 trucks.
- Improvement in calibration technique achieved increased accuracy and therefore higher actual loads.
- Increased set point simultaneously.



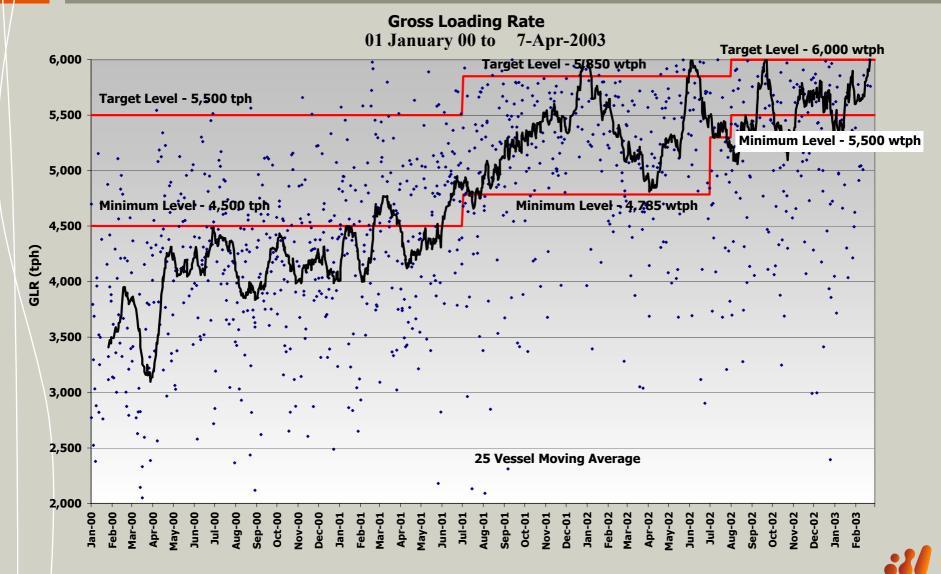


Operating Excellence Exponentially Smoothed Grades from each Pit at Yandi





Operating Excellence Gross Loading Rate



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New Technology -Slope Stability Radar



Leadership Excellence

Leadership Excellence is a customised BHP Billiton Iron Ore leadership development program

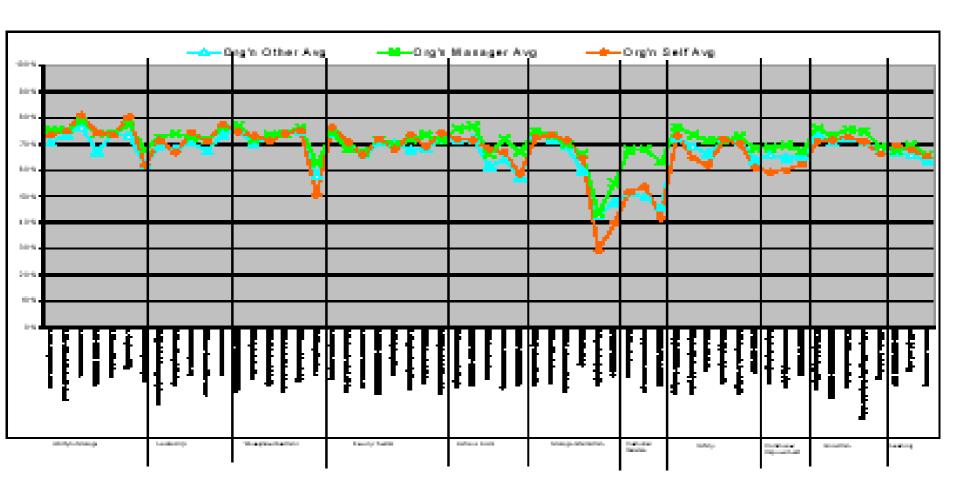
Objectives

- Develop a common leadership framework
 - "Attaining organisational goals through the development of people"
- Assess current competence levels and implement improvement plans
- All BHPBIO leaders meet competency benchmarks
- Nationally accredited Frontline Management qualifications
- 25 Managers and Superintendents completed 2002 program
 - 23 achieved Diploma (92% of target group)
- 52 Supervisors completing 2003 program



Leadership Excellence 360° Feedback Start of Program

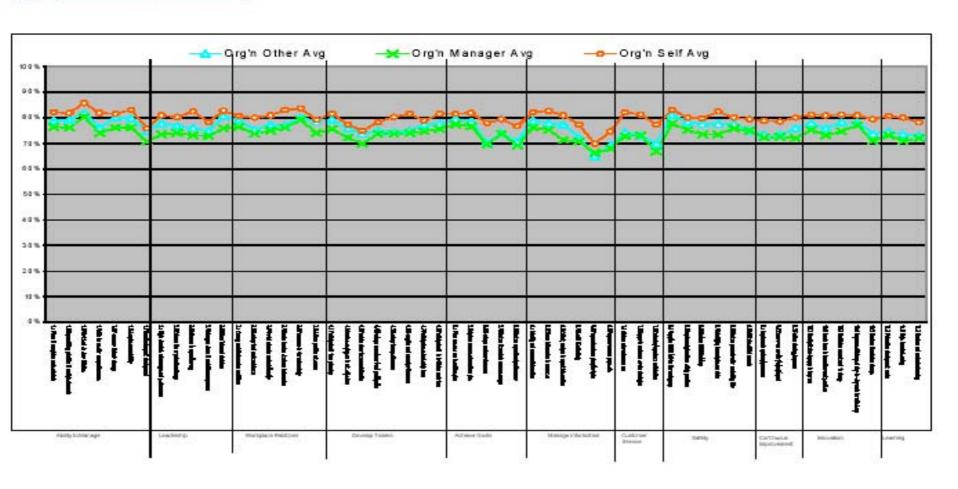




Vediesday, 2 July 3083 Fige 1 of 1

Leadership Excellence 360° Feedback Conclusion of Program





Wednesday, 2 July 2003 Page 1 of 1