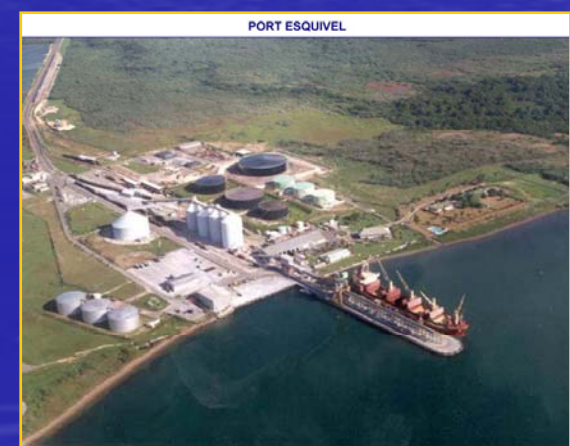
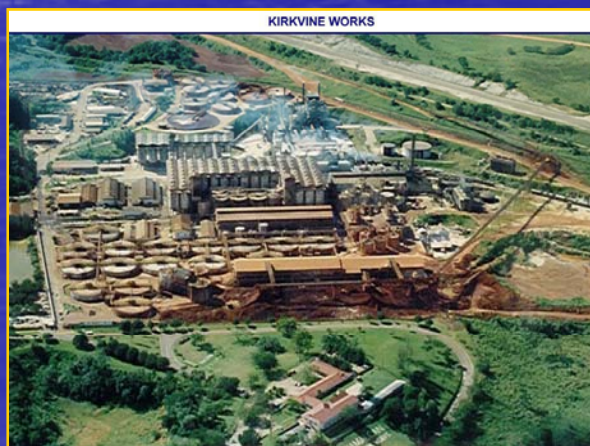
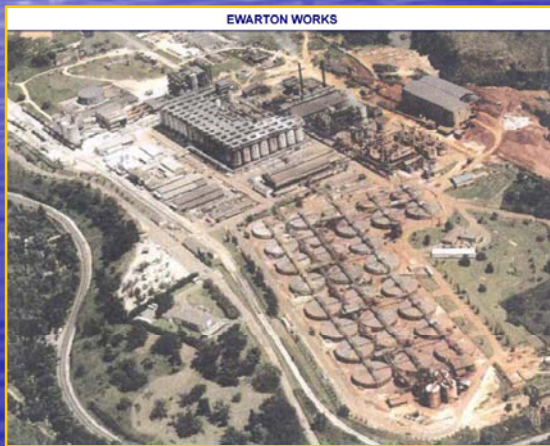
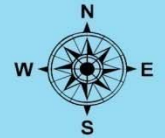


Introduction to WINDALCO



LOCATION MAP OF JAMAICA



Kirkvine Works



Port Esquivel



Contribution to the Economy

	2004	2005	2006	2007
Levy & other mining taxes	20,175	23,063	27,880	30,479
Payroll taxes	9,534	9,396	14,685	12,128
Cash brought into country	72,128	77,181	98,300	87,158
Capital expenditure (93%)	21,300	17,800	37,390	37,042

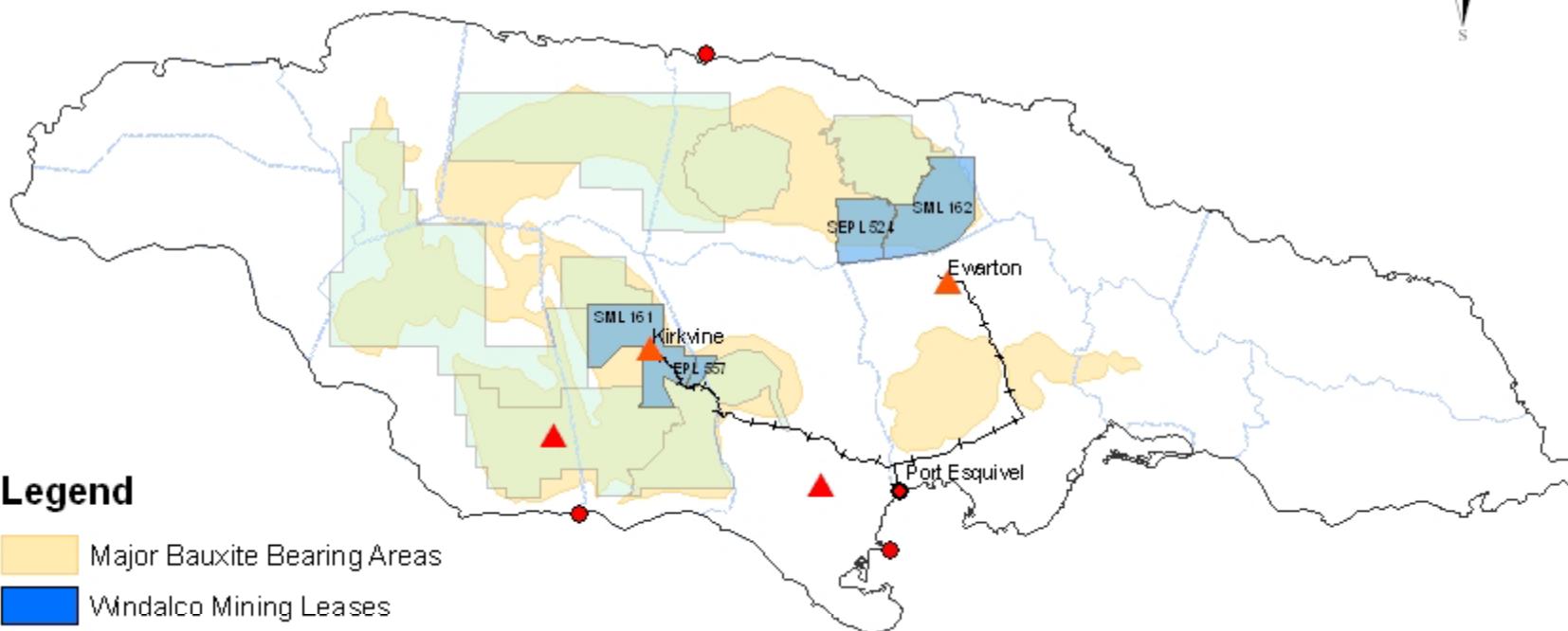
The above indicates WINDALCO's contribution to the Jamaican economy over the most recent years.

Contribution – inflows of cash into the country and hence the economy. Taxes paid out directly to the GOJ.

All amounts are in US\$000.

MINING FOOTPRINT

BAUXITE MINING & EXPLORATION LEASES IN JAMAICA

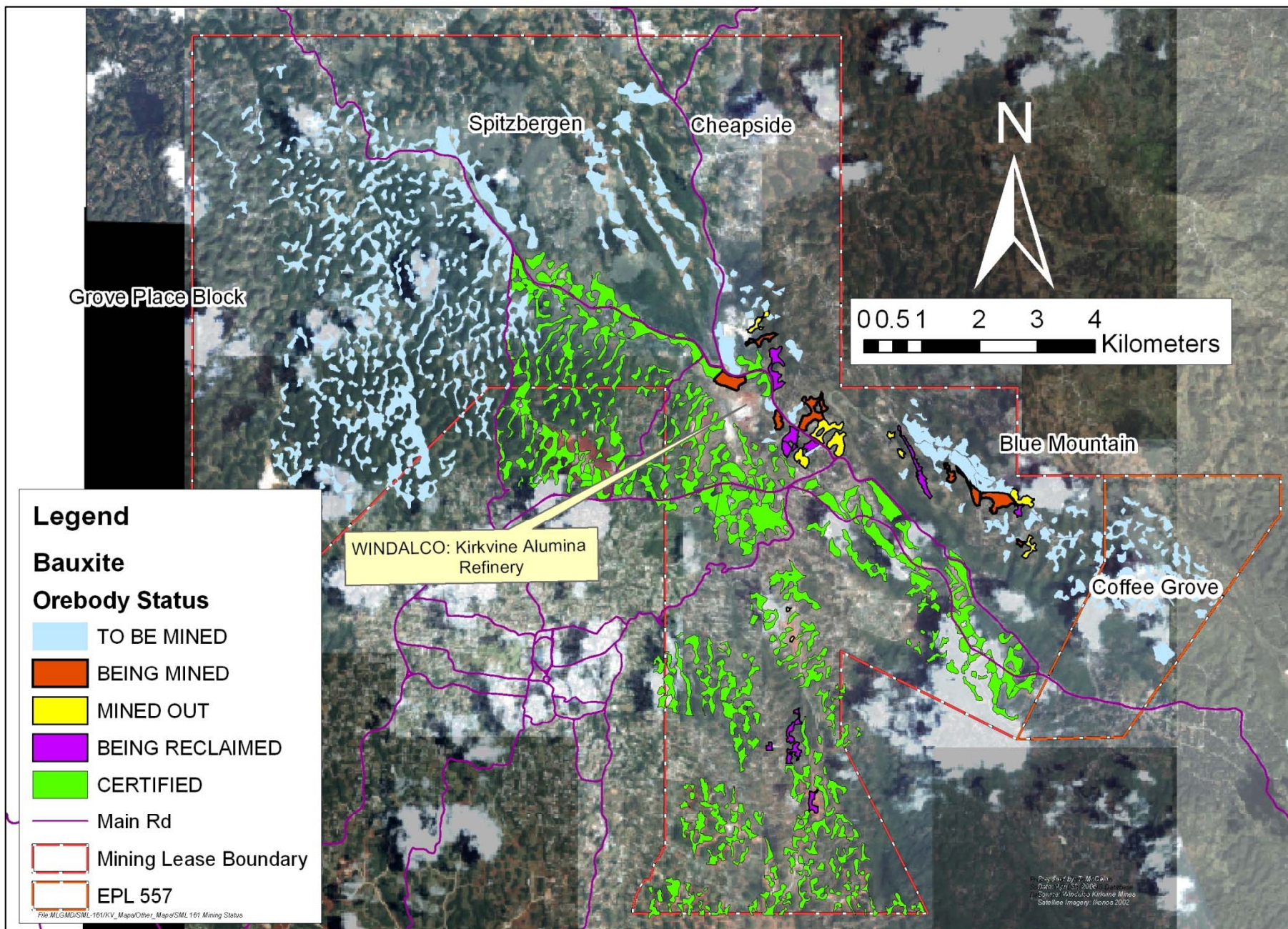


Legend

- Major Bauxite Bearing Areas
- Winalco Mining Leases
- Other Leases
- Parish Boundaries
- Bauxite Port
- Alumina Refinery
- Winalco Rail Network



SML 161 & EPL 557 as at March 31, 2008





From Mined Out Pit to Restored Land



Before

MN-07
Reclamation/Restoration
New Hall, Manchester



After

Restoration Summary

- ✦ We have maintained a consistently high standard in restoration quality and backlog management .
- ✦ Since the inception of the Commissioner's plaque for best land restoration, WINDALCO won 7 of the 9 annual awards.
- ✦ We are fully compliant At both locations with the August 2004 Mining Act amendment that requires certification of pits within 3 years of being mined out.



Stake-free farming on restored land

Land Management

Tenant Programme

	<u>AREA TENANTED</u>	<u># of TENANTS</u>
MANCHESTER	2101	1217
ST. ANN/ST CATHERINE	1077	710
TOTAL	3180	1927

- ✦ Early recognition of the productive potential of small holdings/farmers
- ✦ Extension advice
- ✦ Marketing intelligence
- ✦ Collaborative work
- ✦ Water supply
- ✦ Orderly release of lands for mining

Land Restoration

- ✦ Proactive land restoration research

- ✦ Adherence to well defined guidelines:
 - Top soil management
 - Adequate soil cover
 - Removal of excess stones
 - Application of organic matter
 - Erosion control measures
 - Applicable land husbandry practices
 - Certification

Standards for Rehabilitation

- ✦ Existing legislation specifies options for the standards to which lands are to be rehabilitated:
 - Agricultural / Pastoral
 - Afforestation
 - Other uses approved by the Commissioner / Town & Country Planning Authority

Determination of End Use

WINDALCO'S Agriculture Dept. chooses the option based on the following factors:

- Location and proximity to villages
- Pre-mining land use
- Terrain of the land
- Economic value of crop
- Weather conditions and time of year

Lands Kept in Productive Use



Pre-Mining -
Land kept in productive use

Farming on restored land in Faith's
Pen (St. Ann)

Produce from farms on restored land



Lands Kept in Productive Use



**Belleretiro –
Sweet potato farming on restored land**



Farming on restored land

Choice of Crops



Sweet Potato



Cassava



Improved Grass



Yam

Going Forward

FOCUS ON:

- ◆ Orderly return of lands to the Commissioner of Lands
- ◆ Supporting role to Community Relations
- ◆ Support for national livestock redevelopment
- ◆ Cost effective land rehabilitation practices

Environmental Management at Kirkvine

Environment Management System

- ✦ Use ISO 14001 as the basis for our Environment Management System
- ✦ Company was certified in 2002
 - First company in Jamaica to be certified
- ✦ Last audit inspection was completed by QMI between 15th and 18th April 2008
- ✦ All locations recertified

Environment Management System contd.

- ◆ Kirkvine has permits and licenses for all its operation
- ◆ Formal written reports made to government every 3 months
- ◆ Subject to unannounced inspections from JBI
- ◆ Have formal meeting with JBI, WRA every 6 months to review performance

Ambient Air

- ◆ We have continuous monitoring stations around the plant to measure air quality.
- ◆ We monitor nitrogen oxides and sulphur dioxide
 - These parameters cause most concern in combustion processes
- ◆ Monitors located around the plant

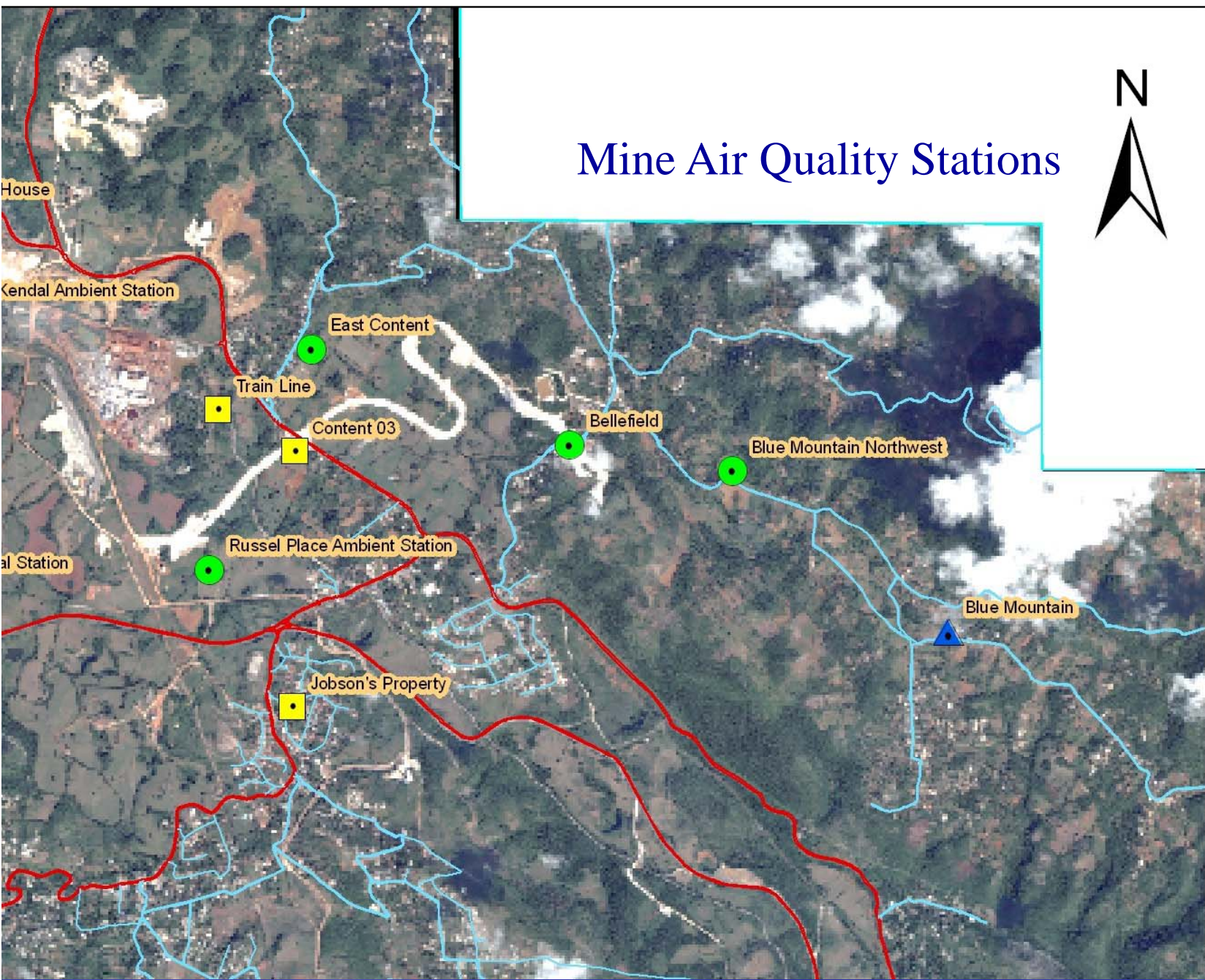
- ◆ Limits set by government
- ◆ Calibrated and maintained by contract by US company
- ◆ Calibration files are a matter of record
- ◆ Inspected as part of ISO 14001 audit and by JBI
- ◆ Ambient air concentrations of these two parameters are well below limit

Air Quality Stations



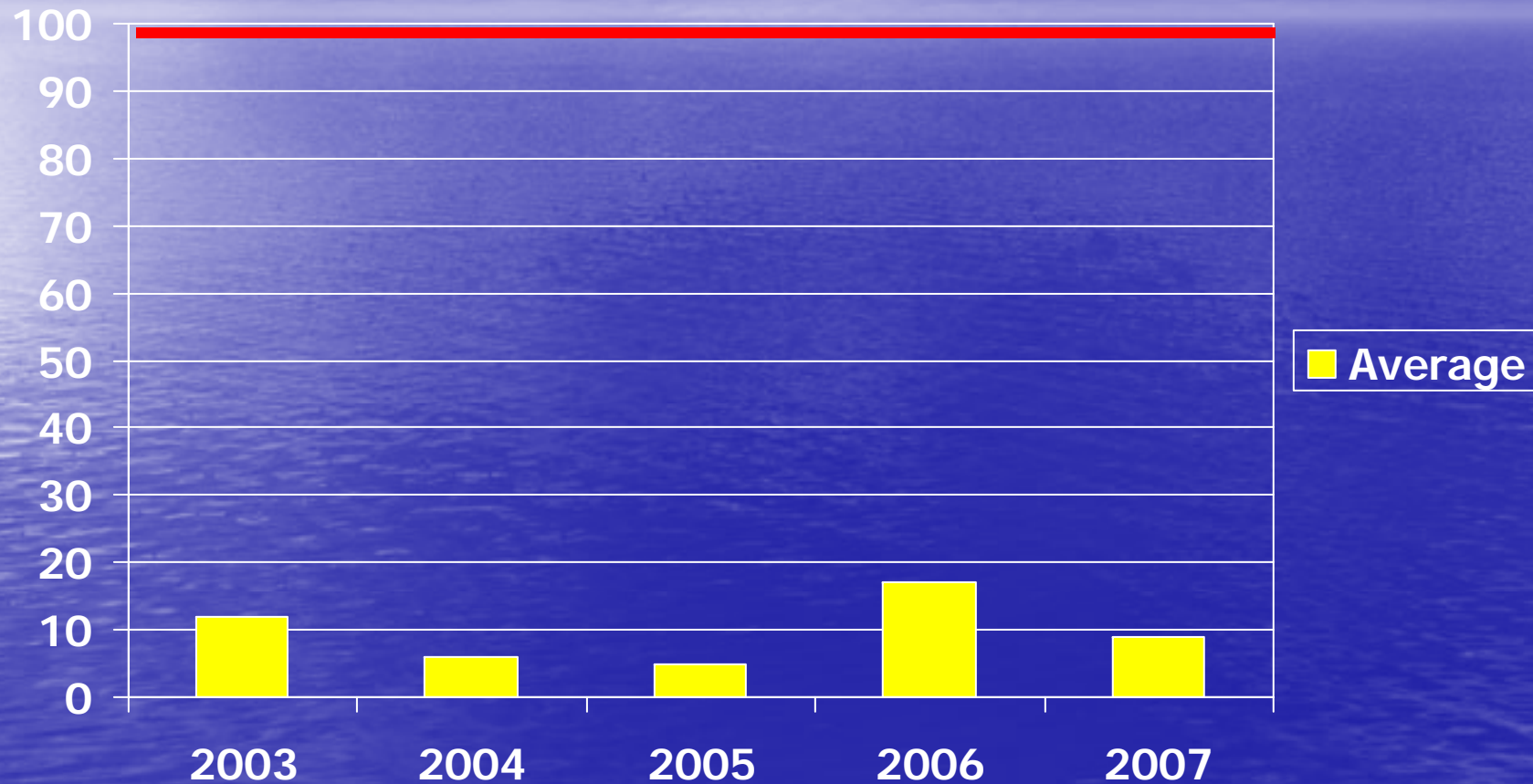


Mine Air Quality Stations

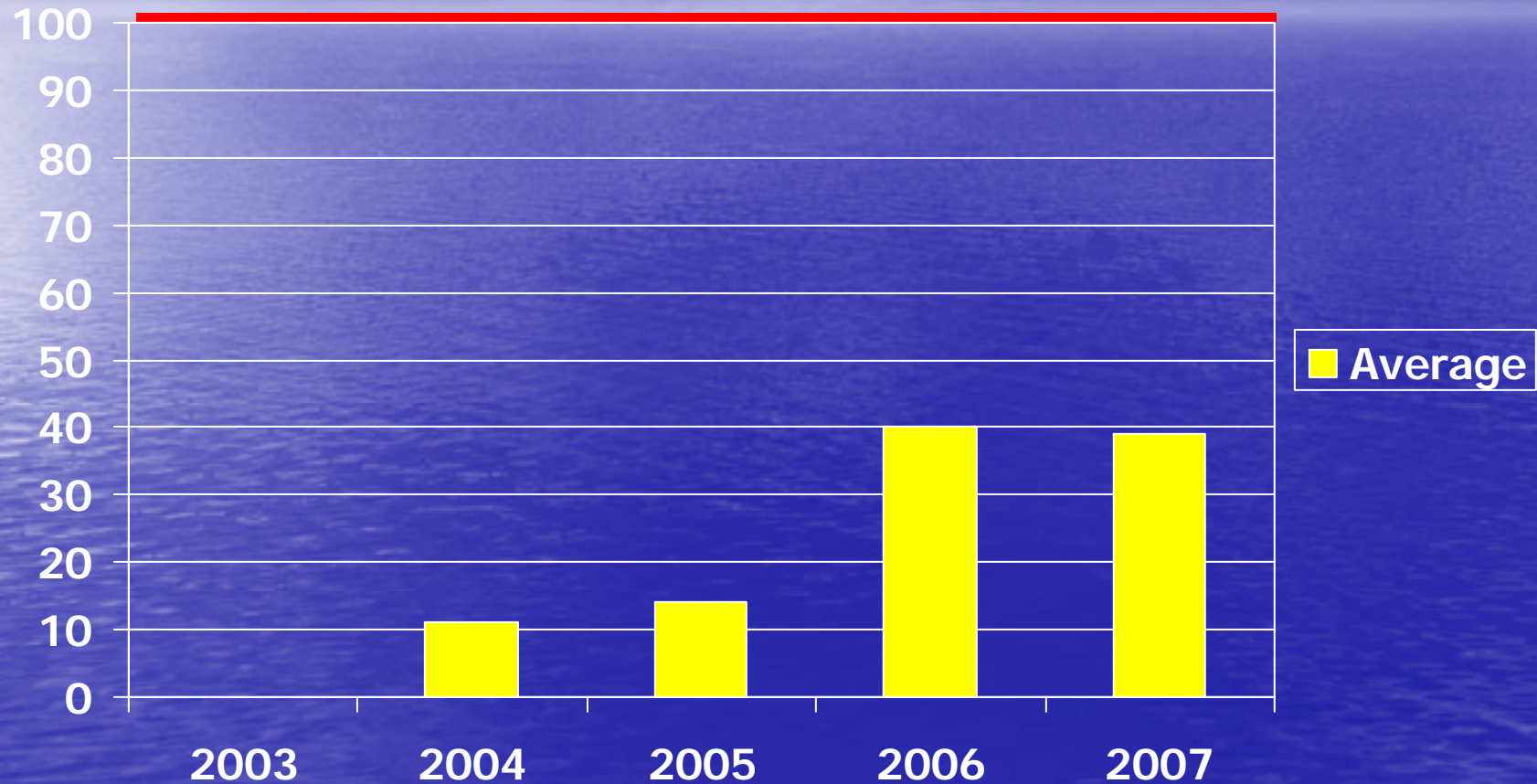


Nitrogen Oxides Kendal

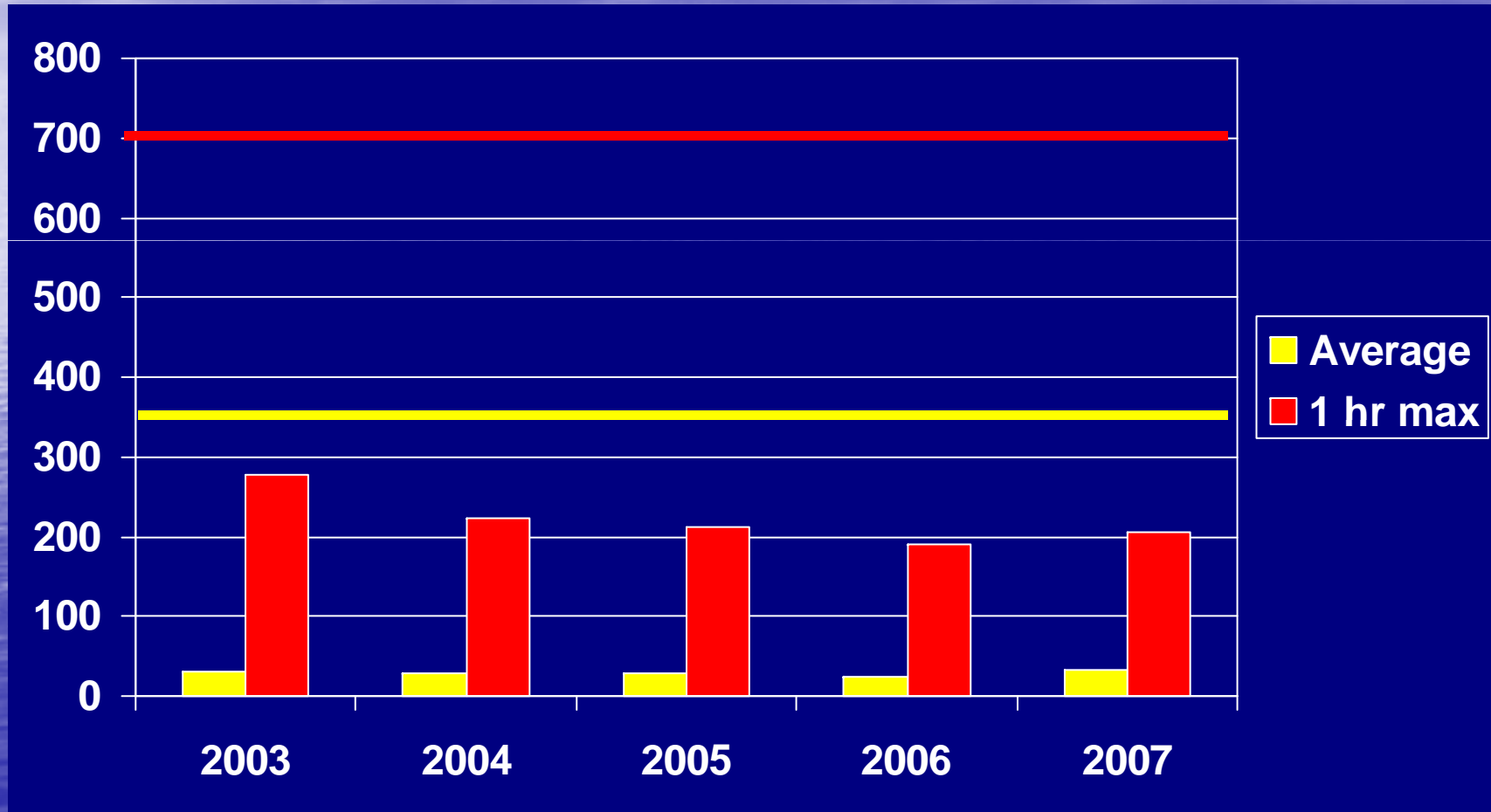
($\mu\text{g}/\text{m}^3$)



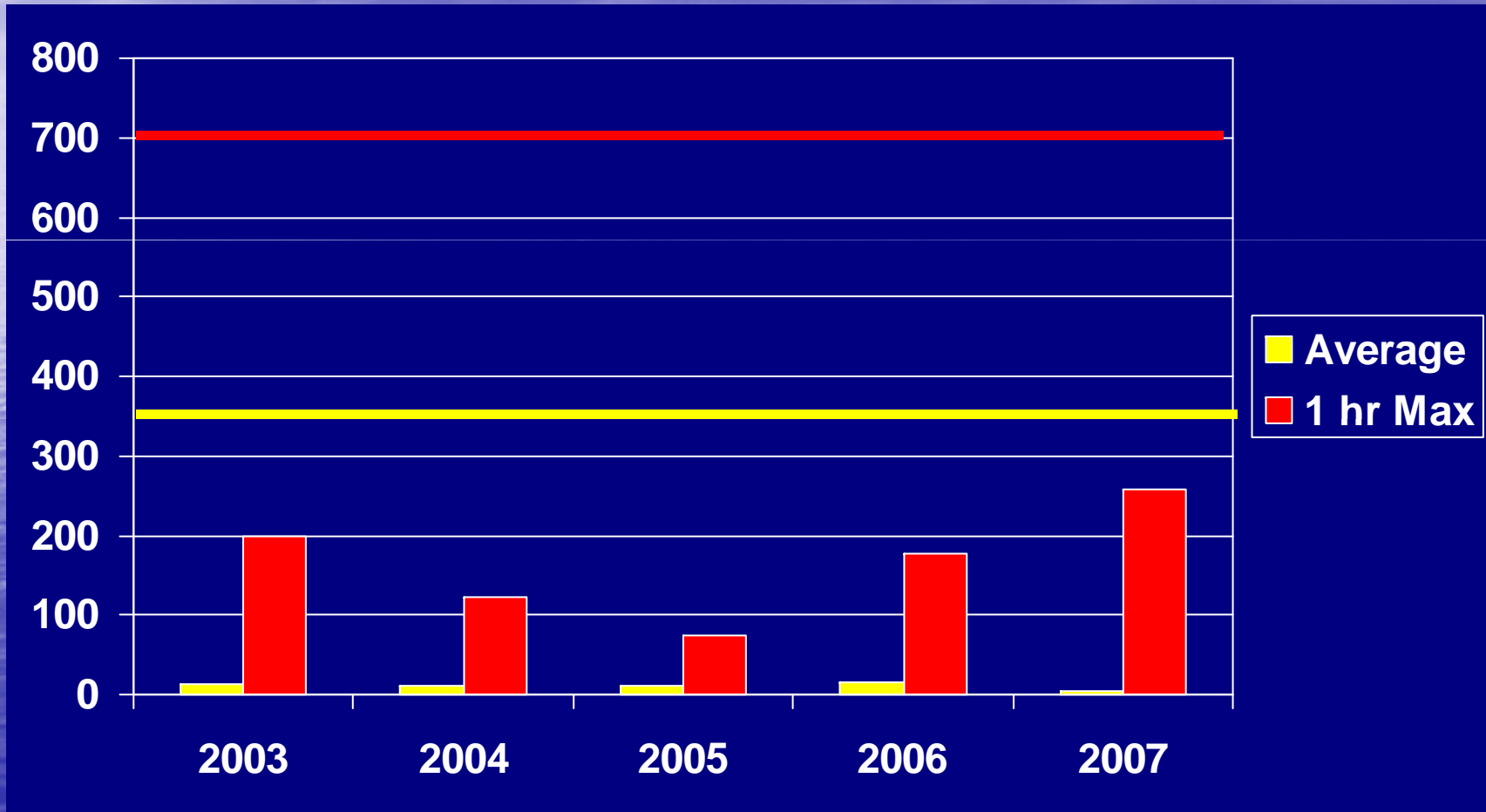
Nitrogen Oxides Russell Place ($\mu\text{g}/\text{m}^3$)



Sulphur Dioxide Kendal ($\mu\text{g}/\text{m}^3$)

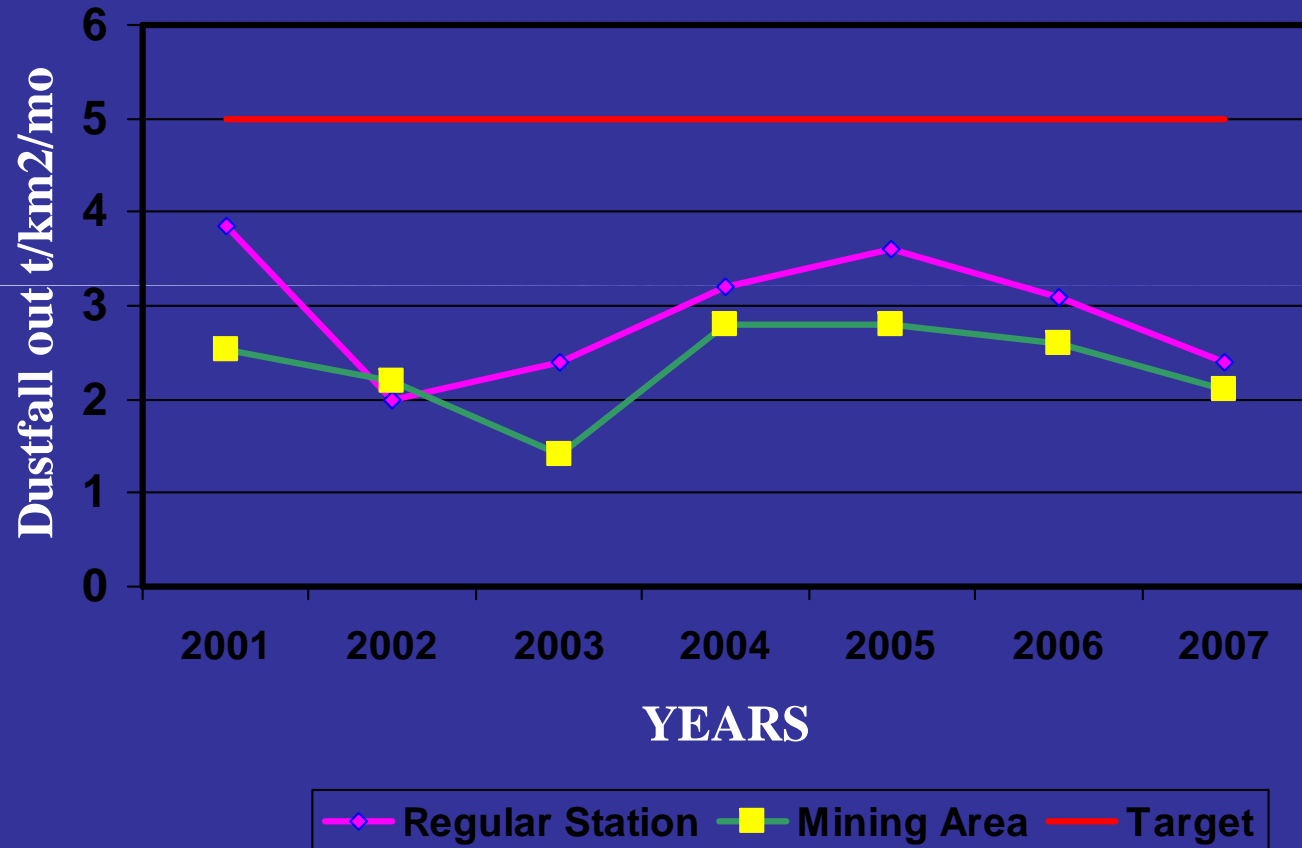


Sulphur Dioxide Russell Place ($\mu\text{g}/\text{m}^3$)

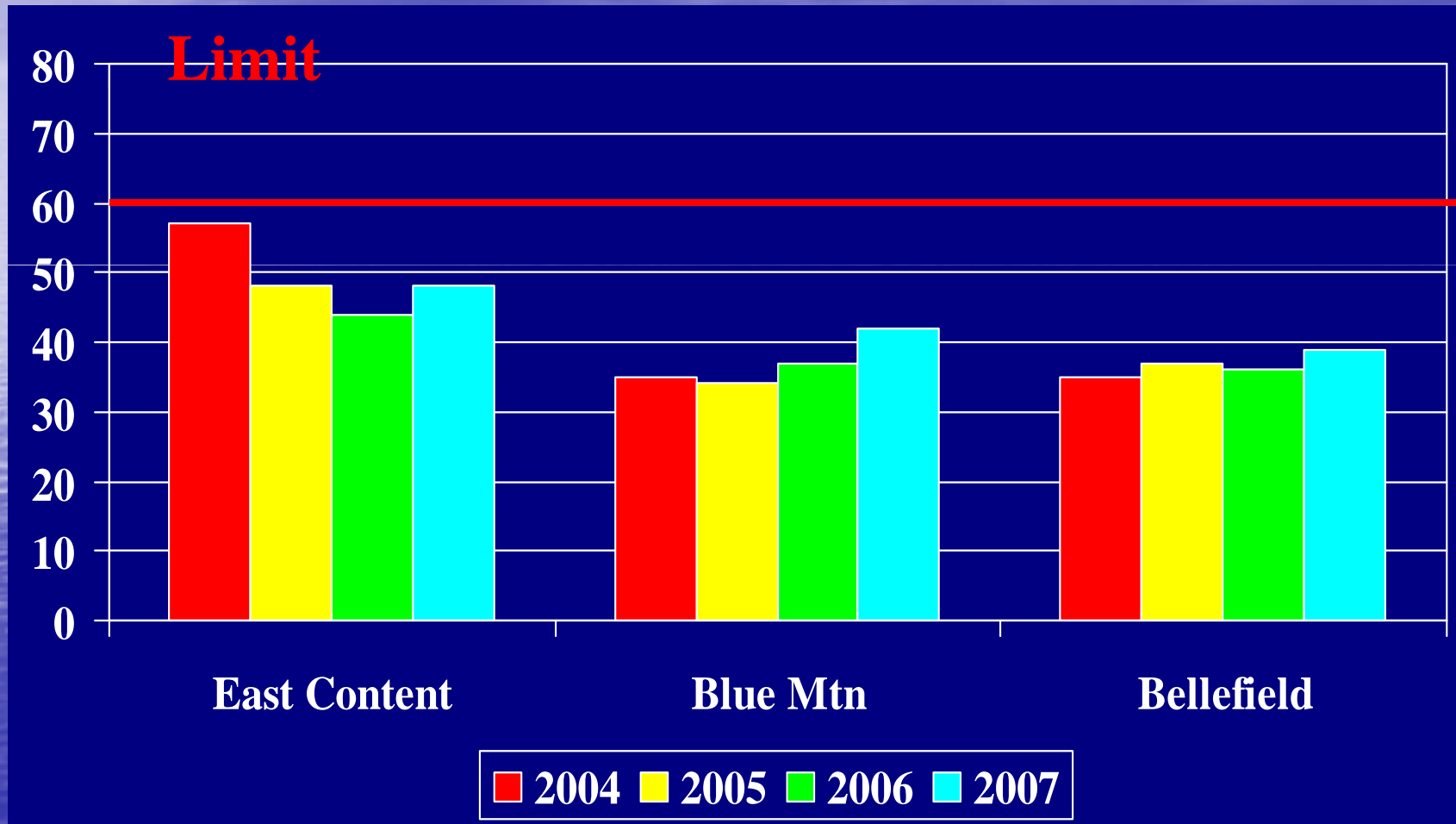


- ◆ We also measure dust around the plant.
We have many monitors, located around plant, Battersea RDA and mines area.
- ◆ Measure dust as dust fall and airborne TSP

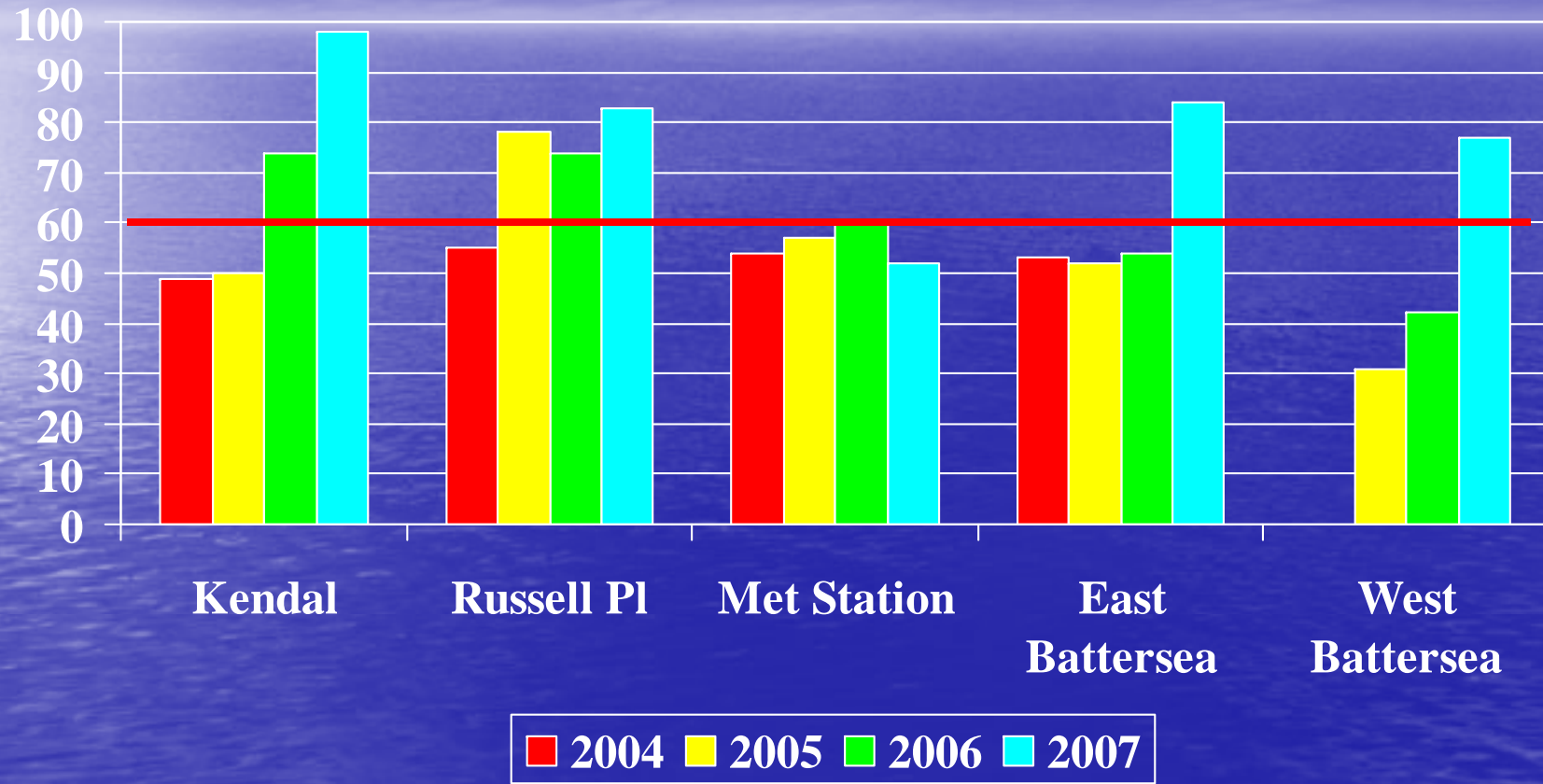
Dust fall-out Kirkvine



Kirkvine Works - TSP - $\mu\text{g}/\text{m}^3$



Kirkvine Works - TSP - $\mu\text{g}/\text{m}^3$



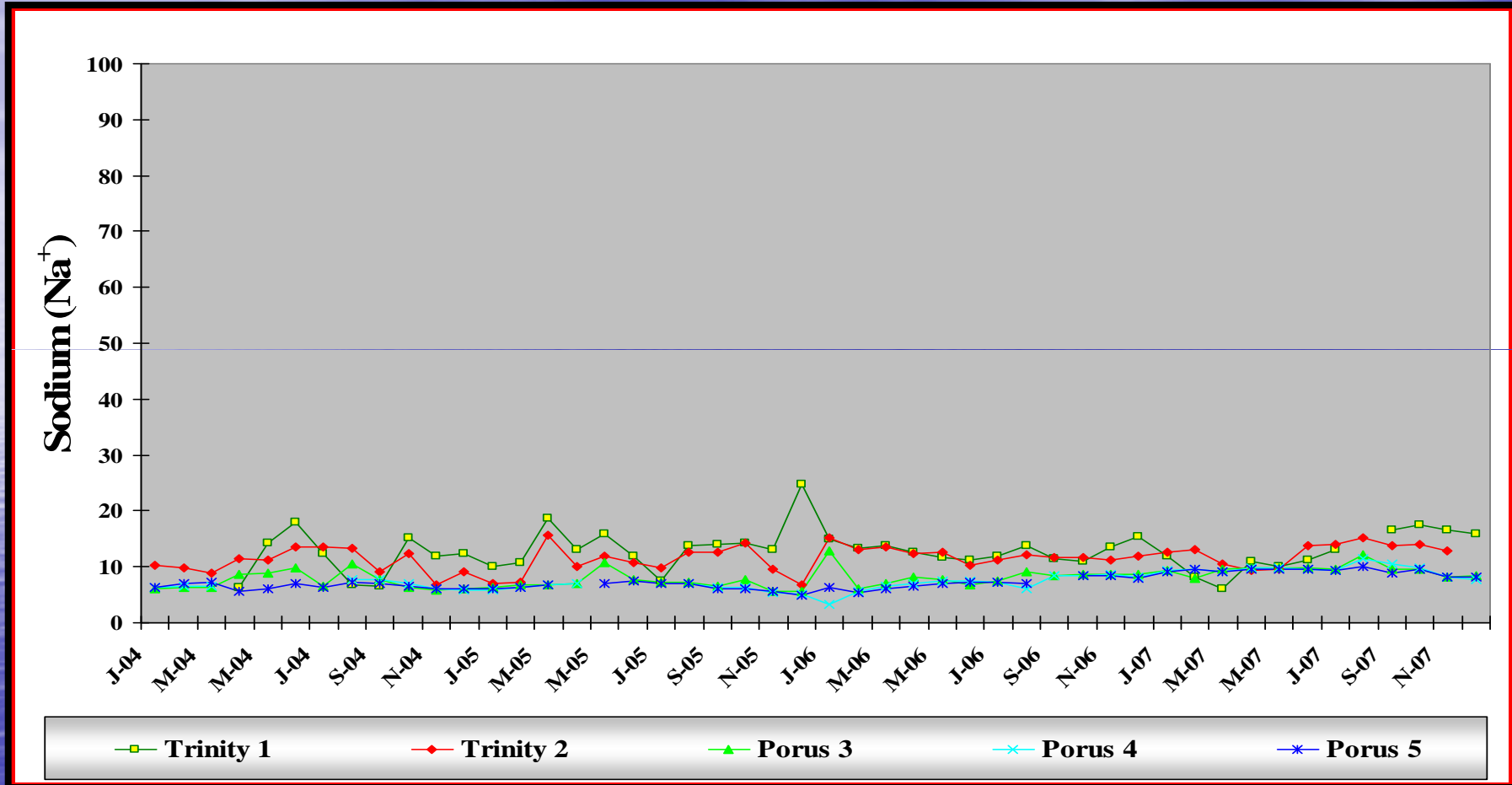
Future

- ◆ We are submitting a plan to JBI before end of month for dust suppression at Battersea
- ◆ We are applying for an Air Quality License.
- ◆ Application will be submitted by end of June
- ◆ Permit will impose limits on air quality
- ◆ Will include a plan to bring air quality into compliance
- ◆ Plan is being finalised at present

Ground Water

◆ We monitor ground water quality around
in wells around plant

Ground Water In Kirkvine Area (Na+ ppm)- 2004-2007



- ◆ Good quality drinking water is 12 ppm
- ◆ Abnormal fluctuations in sodium values at Trinity #1 seemed to have settled down and could have been due mainly to the unusually high rainfall for corresponding periods.

Battersea RDA

- ✦ Stores residue from bauxite after removing most of the alumina
- ✦ Slurry contains only substances originally present in the bauxite, with a residual amount of alkali
- ✦ Red colour comes from the high concentration of iron
- ✦ Any caustic in the slurry is neutralised to sodium carbonate (washing soda) and sodium bicarbonate (baking soda)
- ✦ Material is not toxic, not classed as hazardous by EU or EPA
- ✦ Disposed in containment sites around the world
- ✦ Nothing grows on it because there is insufficient organic matter to support life

Composition

- 42% Iron Oxide
 - 22.% Alumina
 - 6% Titanium Dioxide
 - 6% Lime
 - 2.% Phosphorous as Hydroxy Apatite
 - 1.5% Sodium as Bayer Sodalite
 - 16.% Water
 - 3% Silica as Bayer Sodalite
-
- ✦ Smell comes from organic material in bauxite
 - ✦ Organic compounds breakdown to smaller compounds like humates and acetates

Permits

- ✦ Permit was granted in January 2004 by NRCA (NEPA)
- ✦ Dam inspections are done annually
- ✦ Responding to concerns expressed at public hearing NEPA requires a Health Impact Assessment
- ✦ Only received terms of reference from Ministry of Health in Dec 2006
- ✦ Terms clarified in April 2007
- ✦ Carried out by an independent party
- ✦ Will carry out in 2008
- ✦ Results will be a matter of public record
- ✦ Will invest J\$35 million this year on dust suppression and tree planting

Finally

- ◆ We know what our challenges are.
- ◆ We operate within legal standards.
- ◆ We have plans to correct the existing problems.
- ◆ We are committed to improving our performance.

Community Development

Kirkvine Projects

Business Objectives

- ✦ To maintain good relations with surrounding communities.
- ✦ To respect and respond in a proactive way to concerns of the communities we impact.
- ✦ In pursuing these objectives, we work with other organizations and government agencies to facilitate community development.
- ✦ We seek to work with the community to deal with their needs.
- ✦ We are not government so there is a limit on what we are able to do.

Community Projects which impact the entire community

✦ Education ((J\$2M)

- Back to school assistance: tuition fees, school books and other material, examination fees where approximately 150 students benefit each year.
- Planning and co-ordinating the Primary Schools' Safety Quiz Competition (8 schools participated)

✦ Sports (\$J400,000)

- Sponsorship of community football and netball competitions(12 and 14 teams respectively)



Participants in the Back to School Programme

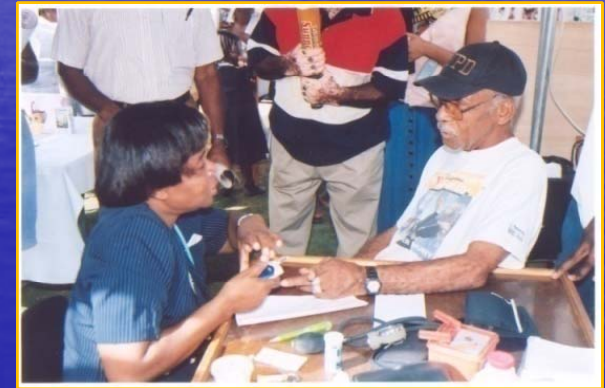


Safety Quiz in progress

Community Projects which impact the entire community

✦ Health and Welfare (J\$2.05M)

- Children's' Christmas Treat for 28 schools surrounding the plant and mining areas (1200 students benefited).
- Humanitarian contribution towards individuals' medical, funeral and other assistance.
- Mobile Clinic goes out into selected communities to provide health care for the elderly citizens.
- Trucking of water to affected areas during the dry seasons.



Health clinic in progress

Community Projects which impact the entire community

✦ Health and Welfare Contd.

- Host and sponsor the Golden Ager's Treat
- Christmas work
- Tiling of Percy Junor Hospital maternity Ward

Projects in communities in close proximity to the Plant

Kendal/Coolshade Projects

◆ J\$4.5M

- ◆ Co-coordinating with JBI to complete construction of the Kendal Post Office by donating cash and building materials.
- ◆ Built the Lloyd French Basic School and re-roofed and expanded the building in 2007.
- ◆ The Football field at Kendal was also built by WINDALCO.
- ◆ Re- roofed and renovated the police station at Kendal after hurricane Ivan. J\$2million
- ◆ Part sponsor the Kendal Football Team yearly to the Division 1 and 2 competition.

Mining in the Manchester Plateau 1990-2004

- ✦ Construction of football fields in Heartease, Richmond, New Hall and Comfort.
- ✦ Construction of all purpose playing court at Heartease. \$
- ✦ Provided chain link fencing for Richmond Primary school.
- ✦ Major contribution towards back to school and other humanitarian assistance.

Content

◆ J\$1.3M

- ◆ Renovated Content Community Centre to facilitate H.E.A.R.T program. Approximately 45 persons benefited each sitting.
- ◆ Relocated Basic School from community centre to a property leased by WINDALCO. Toilet facilities were build on premises to facilitate the relocation.
- ◆ Sponsored Summer Camp in 2004 for approximately 70 children.

◆ J\$1M

- ◆ Renovated Basic school after Hurricane Dean.
- ◆ Football field was built by WINDALCO.
- ◆ Material provided to the Hanbury youth group to re-roof community centre in 2006.

Projects in communities in close proximity to Mining

Blue Mountain/Bellefield

✦ J\$2.3M

- ✦ Construction of all purpose playing court in Heartease and Blue Mountain.
- ✦ Re-roofing and painting of the community centre
- ✦ Building of toilets at Blue Mountain Basic School.
- ✦ Chicken rearing project.
- ✦ Fertilizer project.
- ✦ Built football field at Bellefield High School
- ✦ Built toilet facilities at Bellefield Primary School
- ✦ Assistance towards the library and clinic at Bellefield
- ✦ Regular trucking of water to the Blue Mountain

Sports Development

- ◆ National Sports Development
- ◆ MD's Scholarship for sports
- ◆ High Mountain Road Races



Left:: Deon Hemmings, Jamaica's first female Olympic Gold Medallist

Top: Consultations with the Jamaica Amateur Athletics Association



Press launch for the High Mountain Road Races



Press launch for the MD's Sports Scholarship

Corporate Programme

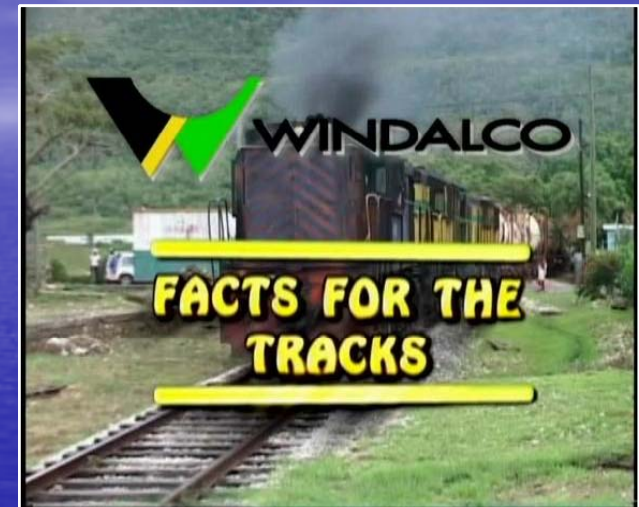
- ◆ Support to Closed to Crime Initiative
- ◆ Renovation of Fountain in Park Crescent (Landmark)
- ◆ Support to hospitals
- ◆ Grants and bursaries programme



Presentation to the Manchester Chamber of Commerce in support of the Closed to Crime Initiative.

Promoting Good Safety, Health & Environment Attitudes

- ✦ Safety, Health and Environment Awareness Week
- ✦ Railway Safety Video – Facts for the Tracks



WINDALCO completes production on its safety video – Facts for the Tracks. The video is aimed at increasing safe behaviours and attitudes around the trains and rail tracks.



Left & Below: Scenes from WINDALCO's Safety, Health & Environment Awareness Week



Summary

- ◆ We are proactive and responsive.
- ◆ We work with communities through a process of continuous dialogue.
- ◆ We implement projects which benefit the community as a whole.
- ◆ We are proud of our record of community involvement and development.

Thank you.