

### **GAUTENG INFRASTRUCTURE**

NEWS

Stakeholder News and Information

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## **Skills partnership with Gauteng TVET Colleges strengthens**

By Alfred Nhlapo

he new skills partnership between Gauteng TVET Colleges and the Department of Infrastructure Development took centre stage on Thursday the 29th of March when MEC Jacob Mamabolo hosted senior officials from the National Department of Higher Education and Training and the University of Johannesburg. He was accompanied by senior officials from DHET and the University of Johannesburg.

The main aim is to produce skilled citizens for the province so as to help reduce the high levels of unemployment. It is envisaged that the resultant training programmes will produce much needed artisans for the Gauteng economy. Unemployed youth and people who have been retrenched by the employment sector constitute a large part of target group. The Institutions of Higher Learning have been brought on board to enrich and further develop the occupational expertise that the department imparts to its artisans and trainees. The programme will be implemented in phases.

MEC Mamabolo said the partnership is a ground-breaking innovation that will help set benchmarks for the various trades. He said the initiative needed decisiveness because of the complexities of developing a unique solution for addressing a historical problem of people who have been structurally excluded and underdeveloped in regards to skills. The current unemployment levels were of great concern.

"As government, we see the TVET College sector as a strategic creator of the mass skills needed by the various industries that are related to our work. The vocational workplace across both the public and the private sectors has a huge role to play in creating a home for artisans. The people we will train must take their rightful place in various industries while also creating jobs as entrepreneurs. This partnership must therefore present industry with the best quality artisans in the relevant sectors.

He said the initiative was about different stakeholders bringing their resources together to provide unemployed people with an opportunity to gain practical and fully accredited training. The trainees are being exposed to the world of work contained in the portfolio of our department. A strong working relationship with the construction sector and the TVET Colleges also presents unlimited opportunities.

Speaking on behalf of DHET the DG Mr Gwebinkundla Qonde said the Minister of Higher Education and Training had also made an undertaking to prioritise the enrichment of the TVET College curriculum as a strategic intervention to the needs of the economy. "The need for technical cannot be overemphasized. If you have got technical skills you can live and survive anywhere in the world. Employers also need to understand that the development

of skills is essential for their own sustainability and survival", said Mr Qonde. Another DHET delegate said the use of existing spaces in both the TVET Colleges and GDID was an untapped resource for opportunities to create community colleges that serve as centres of excellence in the development of skills. Further partnership engagement would be held in due course.

Pictures by: Tshisikhawe Thangavhuelelo



### GDID presents programmes for People with Disabilities to Portfolio Committee





By Morati Sethabela

he empowerment of People with Disabilities (PwDs) was the main issue on the table at the Johannesburg City Hall on Friday the 16th March 2018 when senior officials from the Department of Infrastructure Development (DID) made a presentation to the Gauteng Infrastructure Portfolio Committee. The department reported on progress made in procuring goods and services from enterprises owned by PWDs as well as in recruiting this target group to join the workforce of the organisation.

The GDID team was led by the Deputy Director General Corporate Services Ms Masabata Mutlaneng. She was accompanied by the Acting Chief Director Human Resource Management Mr Wesley Jacobs. Various stakeholder structures were also present. The Portfolio Committee was led by Chairperson Ms Lindiwe Lasindwa. Also in attendance was the Provincial Champion on Issues relating to People with Disabilities Mr Zain Bulbulia who is located in the Office of the Premier.

Speaking at the meeting, Ms Mutlaneng reaffirmed the commitment of Gauteng Provincial Government to the improvement of the quality of life of People with Disabilities through the creation of greater access to job opportunities. She said the department had already met the 2% target of employment in this regard and was now working at meeting the newly revised target of 3% that has since been set by the provincial government.

And, presenting on progress made on the recruitment of people with disabilities Mr Jacobs added that the department now had 54 employees with disabilities, which is two percent (2%) of its staff complement. He said this was an improvement compared to the 2016/17 financial year whereby the department had been sitting at 1.3%, that is thirty eight (38) employees

"The Human Resources Management team embarked on a drive to headhunt People with Disabilities to fill the identified vacant positions. Through this process, seventeen (17) employees with disabilities of which sixteen (16) were admin clerks and one a Boiler Assistant were appointed between Dec 2017 and March 2018. "The Department is now working to reach

the revised provincial recruitment target of 3%. The Department's 3% of total establishment is equals to 83 employees with disabilities. The Department has a strategy in place to appoint the remaining twenty nine (29) People with Disabilities (PwDs) by September 2018", said Jacobs

The Department had established partnerships to source CV's of eligible people to participate on the Department Skills Programmes. The Department was also empowering PwDs through bursaries, learnerships and internships. The Provincial Champion for issues on People with Disabilities welcomed the progress made and said a lot more still had to be achieved in this regard.

Pictures by: Tebogo Mokati



#### Vandalism of Olievenhoutbosch Clinic condemned

By Morati Sethabela and Theo Nkonki

he vandalism of the Olievenhoutbosch Community Centre and Clinic that took place during a protest by some unidentified members of the community has been strongly condemned by Infrastructure Development MEC Jacob Mamabolo. The damage was apparently so extensive it rendered the facilities not operational with the services having to be put on hold.

It is reported that a group of protesters burnt down a guard-house, damaged a gate and also stole computers. Windows and doors were also broken. The protesters had later blockaded the R55 road with burning tyres.

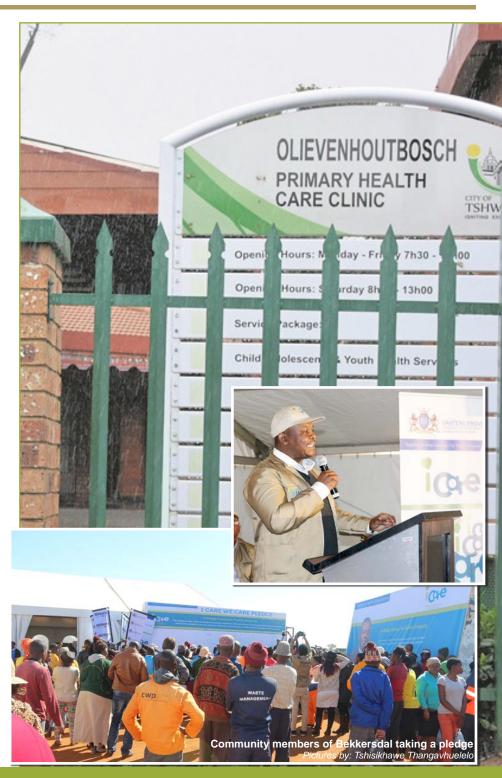
"This act of vandalism has a serious ripple effect for the community of Olievenhoutbosch. It is absolutely senseless and backward that people would destroy a clinic because they demand something else. A clinic like this one is an important facility for the community especially for children and the elderly. It is most unfortunate that there are still people in our communities who have no regard for facilities such as this clinic which is now not available to everyone", Mamabolo said.

He added that this was the most barbaric act and those behind it had robbed the Olievenhoutbosch community of the right to public health.

"Whilst we understand the public's right to peaceful protests, the torching and vandalism of public buildings is a crime. It is illegal, unacceptable and has to stop immediately", Mamabolo reiterated.

Through the iCare We Care campaign DID has been leading the charge for communities to start appreciating the importance of public infrastructure, the common heritage of society. Launched in Bekkersdal in Gauteng's Western Development Corridor on the 13th of July 2016, campaign continues to raise awareness and change how communities relate with public property such as clinics, schools, libraries and community centres among others.

The Gauteng Provincial government is also in partnership with the Moral Regeneration Movement in mobilising communities to protect and preserve public infrastructure such as clinics, libraries, schools and hospitals, among others.





Mr. Jacob Mamabolo

MEC for the Department of Infrastructure Development

I/We pledge to take a firm stand against burning,vandalism,littering and any form of destruction of public property.

I/We further pledge to care for, preserve and protect public property as the common heritage of all the people.

#### Department celebrates International Women's Day

By Tebogo Mokati

he 8th of March 2018 saw the department commemorate International Women's Day and paying homage to women's contribution to the development of society. The event was hosted at Emoyeni Conference Centre in Parktown, Johannesburg. The event was themed "Press for Progress". It was the first exclusive gathering of women who are senior managers, and was chaired by the Deputy Director General Corporate Services Ms Masabata Mutlaneng. The HOD Mr Bethuel Netshiswinzhe was the host.

International Women's Day is celebrated across the globe in honour of women of all races for their contribution and achievements in their different sphere of influence.

In her opening address the Deputy Director General commended the great initiative of celebrating women. "Today marks the beginning of a new dawn for women in this office, for the first time in the history of this department we as women have come together to have a conversation on issues affecting us on daily basis in our respective spaces", said Ms Mutlaneng.

She said more of such events should be hosted whereby women openly speak about their professional development and also assert their role of women in the technical fields that have historically been the preserve of menfolk in the different industries and sectors.

A point was made that women are sometimes looked down upon for the fact that they are women. They have to work extra hard to prove that they are capable just like their male counterparts. The women were encouraged to voice their concerns and also make suggestions on how to bring meaningful transformation and equality in the workplace.

The Chief Director Legal Services Ms Cornelia Noxaka said women needed to have a conversation on equality in the presence of their male counterparts in order to ensure that they are in integral part of the transformation of the workplace and society as a whole.

The Chief Director Human Resource Management Ms Maggie Thakhuli said it was not enough to have women in leadership. "We need to encourage women occupying senior position to transfer skills, knowledge as well as to mentor and groom the junior staff members take over. This will lay a foundation for the next layer of leadership in the organisation", she added.

The ladies also requested that the department consider issues ranging from 'Take the Girl Child to Work' Campaign, the establishment of form women's forums, and the provision of more training and bursaries for women in the technical fields, amongst others. The Head of department Mr Bethuel Netshiswinzhe thanked women for the valuable role and suggestions.

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"Allow me to say that I feel honoured to be part of a team that is made up of strong and professional women who have shown great strength in this male dominate environment such as ours. Over the years of my working life I have also learnt that women are better leaders due to their listening skills, accessibility, caring for others for other people, willingness to motivate others, and the attention to their own personal growth. It has been proven that the

girl child is more open to reading than the boy child", said Netshiswinzhe.

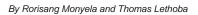
He also encouraged women to fight against injustice and social ills. "I call on women to work together to confront all forms of women abuse in the workplace".

Pictures by: Tshisikhawe Thangavhuelelo

## State of the Province community feedback held at Joburg City Hall

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he delivery and maintenance of new and old public infrastructure is just as important for Gauteng communities as is equitable access to opportunities in government programmes. The provincial government is also committed to the reclaim and conversion of hijacked buildings into livable precincts that will improve the quality of life of residents. The province is also encouraging entrepreneurs to take the initiative and create new solutions to the economic challenges faced by the City Region instead of only looking up to government bodies.

These were some of the issues raised during the Post State of the Province feedback meeting convened by the Department of Infrastructure Development on the 07th of March 2018. The MEC Jacob Mamabolo was interacting with people from communities underlying the Johannesburg Inner City about the work done since the beginning of 2017 to date.

The meeting was attended by leaders of various stakeholder organisations and ward councillors, as well as hundreds of community members, young and old. The participation of military veterans in the programmes of the department was also raised as a high priority, given the broad skills set that they possess as well as the role they have played in bringing about the democratic the country now enjoys. It was said that the communities should play an active role amending the plans and projects of the provincial government for the year ahead.

The province was also working on a strategy to turn around the state of more than twenty (20) abandoned government buildings so that they should not become a home for criminal elements. Work was reportedly underway to attract potential investors to projects such as the Kopanong Government Precinct with the view to create jobs for communities, especially women, youth people with disabilities.







"We are going to convert these buildings into affordable Accommodation to the inner city and we will not allow space for corruption. These opportunities should benefit you the people of the inner city," says MEC Mamabolo.

"Through the Kopanong Precinct we will not only be enhancing how the city looks, but we will also contribute to the reduction of crime and other social ills. We will implement this programme as of next year", said MEC Mamabolo.

Other issues raised members of the community included such as tenders not being awarded to small companies, the eviction of tenants from social housing establishments, lack of access to funding for small businesses, as well as selling of substance abuse. These would be referred to the relevant authorities for attention and resolution.





Pictures by: Lindo Mnguni

### The Central Corridor hosts MEC MMC Intergovernmental Forum

By Alfred Nhlapo

he first Infrastructure Development MEC-MEC Intergovernmental Forum of the year was held at the Phelindaba Council Chamber of the City of Johannesburg, in the Central Development Corridor of Gauteng, on Thursday the 22nd of March 2018. The meeting was attended by councillors and senior officials from the various municipalities in the province.

The lawmakers of the Gauteng City Region discussed issues ranging from the negative impact of climate change, to the challenge of ageing infrastructure as measured in terms of the infrastructure backlog maintenance versus the new infrastructure build programme. The incorporation of water storage capabilities into the work of the department was also raised in view of the scarcity of clean drinking water against the current drought.

The Emfuleni MMC for Infrastructure Planning and Development Ms Khethiwe Ntombela said the reduction of the decision to appoint service providers who need to implement projects to mere costs as based mainly on financial expertise had had a very negative impact on the quality of works.

"The approach needs to take into account the technical expertise as a precursor to financial consideration. Otherwise, the current approach leads to the appointment of contractors who offer the lowest price with no capacity to



implement the projects". The implementation of local content requirements for infrastructure projects was also in contention. The meeting heard that the municipalities seem to apply different systems in respect of the thirty percent (30%) local content requirement. This was a matter that needed harmonisation across the board in order to lessen its potential for strife in the communities.

The forum also condemned the conduct of people who use violence to demand participation on projects undertaken by the province and the municipalities. As much as government remains committed to the empowerment of communities, the principals said the law must take its course in case of transgressions and the perpetrators should be brought to book. A joint roadshow would soon go to the different parts of the province.

MEC Mamabolo said he had also found the recent SALGA energy gathering to have been very useful and relevant to the work of the forum. A provincial Green Infrastructure Summit would also be convened.





Pictures by: Tshisikhawe Thangavhuelelo

**MEC's Page: Window to Infrastructure** 

## Time for efficient infrastructure delivery is now and not later

ear Stakeholder, the new financial year 2018/2019 is now upon us. And, as government we are vividly aware of the high levels of expectation this period brings in respect of our project performance. In the same vein, we also reaffirm our commitment to deliver quality community infrastructure in a timely manner, and within the allocated resources, across the Gauteng City Region.

We are aware of the negative impact of not meeting the needs of our clients. That is why, over that last few months of the preceding financial year, we have been working tirelessly with Team DID in identifying and eliminating the activities that have historically contributed to project delays and unnecessary wastage. I believe that we are now in a position to confidently commit to efficient delivery across the business value chain of the department.

To this end, I am glad to inform you that our department has just completed the process of contracting with the Premier of the Province as well as all our client departments for the new financial year. The service level agreements are now in place, thereby setting a solid foundation for transparency and accountability for the work we will be undertaking going forward.

We have also cleaned the project pipeline so that when we go on construction there are no work stoppages. We would like to see our project portfolio contributing positively towards the growth and development of enterprises that do business with government. Through the work we have done cleaning the project pipeline, we have plugged the holes so that our service providers should be paid on time.

Furthermore, we have given Provincial Treasury a number of premium projects that we are committing to implement in the 2018/19 financial year with no delays and no wastage. We will soon launch this project pipeline in a manner that enables all our stakeholders and the community at large to hold us to account for each and every project, and throughout the different implementation stages.

I believe that the steps we have taken will also make it possible for us to intervene in a speedy and strategic manner to unforeseen challenges that might affect our project portfolio. This includes addressing issues such as the beneficiation of communities, especially the Women, Youth, People with Disabilities, and Military Veterans. The economy of this province deserves a state of the art social infrastructure that will help create job opportunities and skills for the many young people who remain on the periphery of the economy. As DID we want to lend a hand to make this not just a dream, but a living reality. The time for efficient infrastructure delivery is now and not later.



# Gauteng's contribution towards reduction of CO2 emissions



By Ngcebo Nsimbini

 ossil fuels have been used for years in order to produce energy for various applications. Coal has been in the forefront as a main source of fuel in different sectors with the country.

As we all know the importance of reducing the country's carbon footprint, the Gauteng Department of Infrastructure Development decided to lead the need for change in the way we use and produce energy. Coal has a high carbon emission as compared to other sources of fuel and is used widely is South Africa by energy producers, mines and metal industries.

GDID has developed a Green Building Policy that guides the department on ways to reduce its carbon footprint. The department therefore decided to replace all coal boilers in health facilities that are due for replacement because of their life span and its operational safety as per regulation of vessels under pressure.

Currently there are 20 facilities that are retrofitted with dual fired boilers in order to create an energy mix between coal, light fuel oil (LFO) and gas. The facilities vary in sizes which then results in different energy requirements per institution.

The below table illustrates the following:

Table 1 - Energy used monthly by gas boilers in different facilities,

Table 2 - CO2 that could have been produced through coal,

Table 3 - CO2 that could have been emitted by coal boilers,

Table 4 - CO2 savings that could have been emitted to the environment.

It can be seen from the table below that there is an estimate of 2000 tCO2e saved monthly by all retrofitted boilers as from April 2017 and a total of 5811 tCO2e saved to date. This could be translated to an average of 24000 tCO2e savings annually.

It can also observed that there are different types of gases used in these facilities. These gases are natural gas and liquefied petroleum gas (LPG). These gases have different carbon emission values as per the below table

	Table 1			Table 2	Table 2			Table 3				Table 4		
	Energy used		Co2 produced (tons)			Co2 that would have been			Co2 saved (tons)					
Institution	April	May	June (estimated)	/April	May	June (estimated)		April	May	June (estimated)		April	May	June (estimated)
Carletonville	1170.19	1678.04	1424.12	66	94	80		111	159	135		45	65	55
Sterkfontein	2814.52	2944.72	2879.62	158	165	162		266	279	272		108	113	111
ODI	0	0	00		00			0	00			00		0
Johan Heyns	0	180.78	90.39	01	05	5		0	17	9		07		3
Tambo Memorial	9361.53	13721.97	11541.75	525	770	647		886	1298	1092		360	528	444
Heidelberg	18.23	0	9.12	10		1		20		1		10		0
TMI	1930.09	1684.66	1807.38	108	95	101		183	159	171		74	65	70
South rand	1866.97	3478.69	2672.83	105	195	150		177	329	253		72	134	103
Rahima Moosa	2096.13	1926.77	2011.45	118	108	113		198	182	190		81	74	77
Helen Joseph	1201.61	5342.4	3272.01	67	300	184		114	505	310		46	206	126
Edenvale	5212.43	3718.41	4465.42	292	209	251		493	352	422		201	143	172
Sebokeng	0	0	0	00		0		00		00			0	0
Weskoppies	2242	2166	2204	141	137	139		212	205	208		71	68	69
Kopanong	3400	3600	3500	191	202	196		322	341	331		131	139	135
Tembisa	2000	3800	2900	191	202	196		186	359	274		77	146	112
Dr Yusuf Dadoo	2000	2200	2100	112	123	118		189	208	199		77	85	81
Discoveries	1000	1200	1100	56	67	62		95	114	104		39	46	42
Leratong	0	0	2000	00		126		00		189		00		63
Jubilee	0	0	1000	00		63		00		95		00		32
Steve Biko	8360	7468	7914	469	419	444		791	706	749		322	288	305
	CO2	CO2												
		emmision									Total	1,704	2,107	2,000
	(KG/GJ)	(To/GJ)									Iotai	1,704	2,107	2,000
Natural Gas	56.10	.0561											- 05-	
LPG		0.0631								Total	CO2 S	AVINGS	5,811	tons
Coal		0.0946												
https://www.voll	<u> ker-quasch</u>	ning.de/da	atserv/CO2-	<u>spez/index_</u>	<u>e.pnp</u>									

## AquaTrip Water Saving Technology helps Five Sedibeng schools

By Livhuwani Muluvhu

t is generally considered good practice to save. This includes anything from 'saving the last dance for me' to saving time and energy. Savings are at the utmost essence when it comes to saving water, not only because water is life but because South Africa currently experiences a drought and water leakages cost the country around R7 billion per annum

GDID has the service of new water saving technology called AquaTrip which is installed as pilot projects in five (5) educational institutions identified to be on high water bills across the Gauteng Province in an effort to save water. These schools are:

- Madiba Secondary at Mogale City Local municipality
- Olievenhoutbosch Secondary at City of Tshwane municipality
- Kamohelo Primary at Merafong City local municipality
- Emmanuel Primary at Emfuleni local municipality
- Kgomoco Primary at Emfuleni local municipality

The AquaTrip technology is a water detection system, permanently installed on a water line and it monitors the flow of water during specific set times. In the event that the technology detects a leak, it will either shut the water off, if appropriate, or notify the system manager and stop water wastage. The technology has the ability to distinguish between normal usage and leaks. AquaTrip does not alter consumption patterns – it only eliminates water wastage.

#### Before and after Aquatrip installation:

- Reduced water consumption on average by more than 48% across all 5 schools
- Savings range from 37% reduction at Madiba Comprehensive to 64% reduction at Olievenhoutbosch Secondary
- To date, the five schools saved a cumulative R260 075.00 and 13.6 million litres of water in 6 months.



One of the schools where the AquaTrip was installed



AquaTrip unit installed on the main line at Olievenhoutbosch Secondary School



AquaTrip meter and datalog installed in the various five schools



#### 30-Days Supplier payment update: MARCH 2018

By Philemon Motshwaedi

s we reach the end of the financial year and as we look forward to the new one, the team responsible for managing the MEC's 30-Day Supplier-Invoice payment project takes this opportunity to thank all the role-players for their support, cooperation, patience and general assistance in making sure that we fast-track the process of dealing with the backlog as per the MEC's directive.

We want to thank all the suppliers and officials for seeing to it that all necessary and requisite document processes are followed and adhered to in resolving all the outstanding payments. We could not have covered these huge milestones without your support.



Description	Number	%	Amount	%
Number of open/outstanding queries	31	9%	3 429 061.91	1%
Number of queries resolved	319	91%	230 914 834.94	99%
Total number of queries lodged/amount	350	100%	234 343 896.85	100%

#### **Aging Analysis of Open Queries**

Description	Total	0-30 Days	31-60 Days	61-90 Days	91+ Days
Total amount of open queries as at 16/03/2018	3 429 061.91			67 602.00	3 361 459.91
Number of open queries as at 16/03/2018	31			2	29
% by amount of outstanding queries	100%	0%	0%	2%	98%

UNESOLVED				RESOLVED					
Week Ending	Number	%	Amount	%	Number	%	Amount	%	
2018/03/16	33	10%	7 115 139.29	3%	314	90%	199 494 827.56	97%	
2018/03/16	31	9%	7 429 061.91	1%	319	91%	230 914 834.94	99%	





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### Infrastructure Update: the pulse of Engineering and Construction



Compiled by Alfred Nhlapo



#### Industry not taking advantage of mobile technology

The use of mobile technology as a platform for the exchange and storage of project information for construction and engineering professionals remains an area with great potential that the industry leaders are, unfortunately, not yet taking advantage of. Writing on BizCommunity Matthew Kibby reports that although mobile devices such as tablets and smartphones have data transmission capabilities which make the make it possible for contractors and project managers to take photographs of sites, and also send text messages and e-mails these yet have not been integrated into the systems of organisations. Lack of adaptability to new technologies and a general lack of trust of new innovations seem to be the main reasons cited for the slow progress, in this regard. However, professionals remain unfazed by this lack trust as they continue to use mobile technology due to the benefits it brings to their workspaces. – *Editorial Comment and Moneyweb* 



#### SME Conditions Survey goes fractionally higher

The most recent Construction Industry Development Board (CIDB) SME Business Conditions Survey indicates that the Building Confidence of Gauteng industry players has marginally improved in the first quarter of 2018 compared to the same period during the 2017. In the same vein, the national Civil Engineering Confidence has also reportedly improved by the same margin as the Build Confidence, namely one point. Lastly, increases in profitability and activities have seemingly not had a positive or negative impact on the Civil Contractor Confidence, which has remained largely unchanged. — *Editorial Comment and Construction World*.



#### **Gauteng Premier establishes War Room for Water Saving**

Gauteng Premier David Makhura has moved swiftly to stem the tide of water scarcity and established an intergovernmental Water War Room with immediate effect. The announcement was made in late March amid concerns that the behaviour of residents in respect water might compromise the province if steps to manage the scarce resource and also educate the public are taken early enough. The Premier said the Gauteng might face its own Day Zero if interventions are not made. A team of technical experts and public representatives will manage the war room as the province takes a lead on this critical matter. – *Editorial Comment* 

