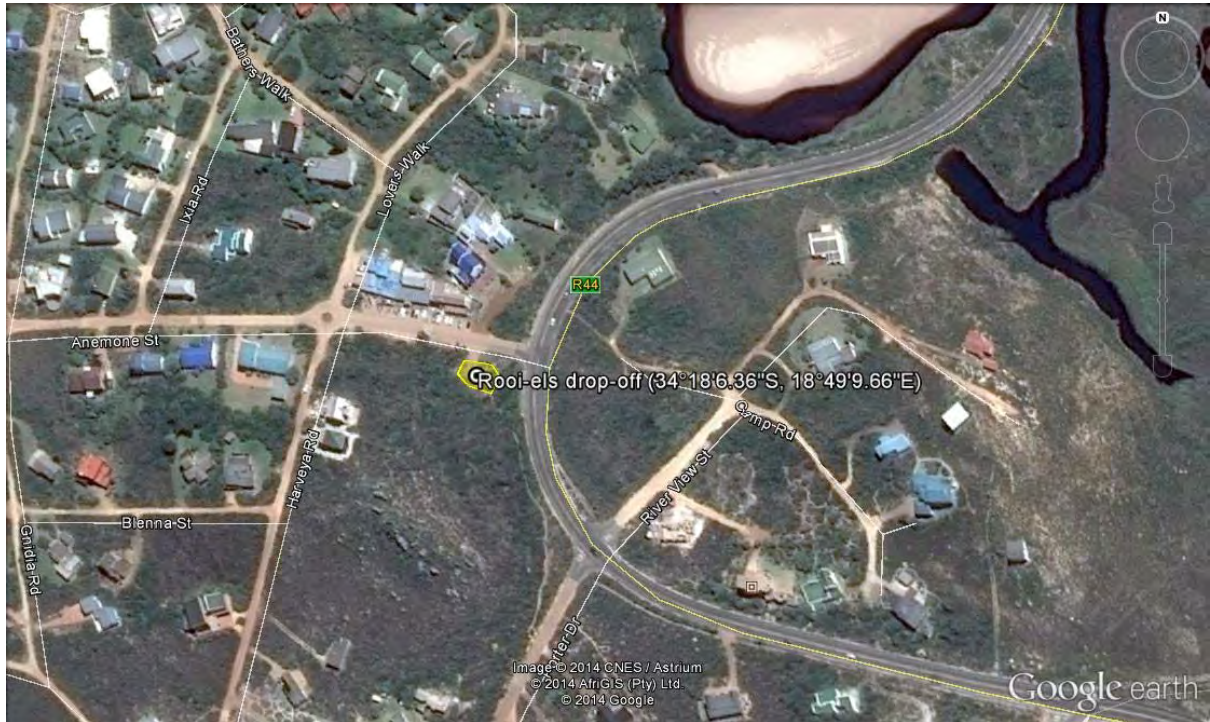


**Rooi-Els**



**Figure 3-15: Rooi-Els Drop-off**

The Rooi-Els public drop-off is located off the R44 as you enter Rooi-Els (34°18'06.36\"S, 18°49'09.66\"E). The facility does not require licensing as the storage capacity is less than 100m<sup>3</sup>. Waste is transported to the Kleinmond Transfer Station.

**Pringle Bay**



**Figure 3-16: Pringle Bay (Hangklip) Drop-off**

The Pringle Bay public drop-off is located off the R44 (34°20'34.02\"S, 18°50'38.10\"E). The facility does not require licensing as the storage capacity is less than 100m<sup>3</sup>. Waste is transported to the Kleinmond Transfer Station.

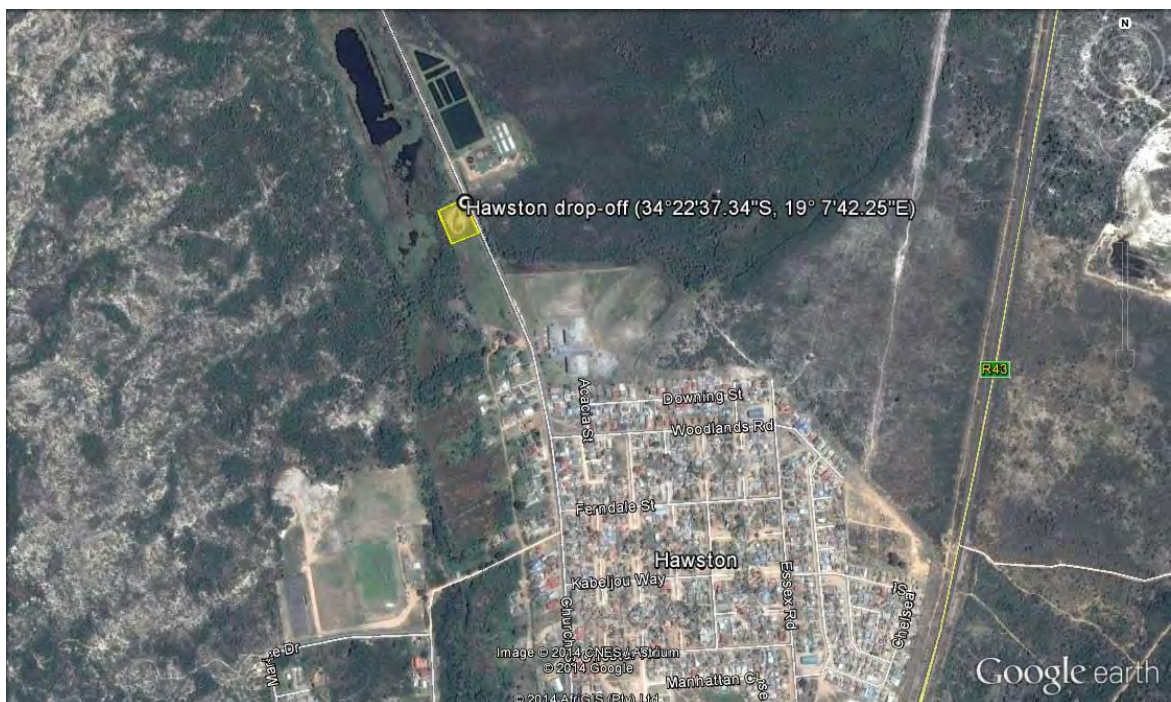
**Betty's Bay**



**Figure 3-17: Betty's Bay Drop-off**

The Betty's Bay public drop-off is located off the R44 (34°21'12.62"S, 18°51'32.54"E). The facility does not require licensing as the storage capacity is less than 100m<sup>3</sup>. Chipped garden waste is transported to the Karwyderskraal landfill for composting and household waste is transported to the Kleinmond Transfer Station. The facility is open to the public Monday to Sunday from 08:00 to 16:00.

**Hawston**



**Figure 3-18: Hawston Drop-off**

The Hawston public drop-off is located to the north of Hawston (34°22'37.34"S, 19°07'42.25"E). The facility does not require licensing as the storage capacity is less than 100m<sup>3</sup>. Waste is transported to the Hermanus Transfer Station.

### Onrus



**Figure 3-19: Onrus Weekend Drop-off**

The Onrus weekend drop-off is located in Onrus (34°24'28.93"S, 19°09'50.43"E). The facility does not require licensing as the storage capacity is less than 100m<sup>3</sup>. Waste is transported to the Hermanus Transfer Station.

**Sandbaai**



**Figure 3-20: Sandbaai Weekend Drop-off**

The Sandbaai weekend drop-off is located in Sandbaai (34°25'18.52"S, 19°11'53.51"E). The facility does not require licensing as the storage capacity is less than 100m<sup>3</sup>. Waste is transported to the Hermanus Transfer Station.

**Voëlklip**



**Figure 3-21: Voëlklip Weekend Drop-off**

The Voëlklip weekend drop-off is located in Voëlklip (34°24'22.10"S, 19°16'42.49"E). The facility does not require licensing as the storage capacity is less than 100m<sup>3</sup>. Waste is transported to the Hermanus Transfer Station.



**Figure 3-22: Voëlklip Drop-off**

The Voëlklip drop-off is located to the east of Voëlklip (34°24'22.10"S, 19°16'42.49"E). The facility does not require licensing as the storage capacity is less than 100m<sup>3</sup>. Waste is transported to the Gansbaai landfill currently and will be transported to the Karwyderskraal landfill from April 2015.

### **Stanford**



**Figure 3-23: Stanford Drop-off**

The Stanford public drop-off is located east of Stanford (34°26'50.28"S, 19°27'21.42"E). The facility does not require licensing as the storage capacity is less than 100m<sup>3</sup>. Separate containers are available for recyclables and household hazardous waste. Waste is transported to the Gansbaai landfill.

## **Pearly Beach**



**Figure 3-24: Pearly Beach Drop-off**

The Pearly Beach public drop-off is located in the north-eastern part of Pearly Beach (34°39'51.69"S, 19°30'14.41"E). The facility does not require licensing as the storage capacity is less than 100m<sup>3</sup>. Waste is transported to the Gansbaai landfill.

### **3.6.5 Disposal Facilities used outside the Overstrand Municipality Boundaries**

The hazardous waste generated in Overstrand Municipality will be transported to the Vissershok Waste Management Facility (VWMF). It has a H:H operating permit from DWAF. The site is situated some 800m west of the N7 at Vissershok and is operated and audited in terms of its permit conditions.

### **3.6.6 Contaminated Land**

There are no known contaminated land or unpermitted landfills prior to ECA 1989 in Overstrand Municipality. All contaminated land is discussed under "3.6.2 Closed Landfills".

### **3.6.7 Informal Salvaging**

Informal salvaging has not been reported as a concern in the Overstrand as the facilities where salvaging can take place are fenced and access controlled. The main "salvagers" are baboons, but baboon-proof bins are available for purchase from the Municipality to limit this nuisance.

### 3.7 COSTS OF EXISTING WASTE MANAGEMENT SYSTEM

#### 3.7.1 Financial Summary of Waste Management Services of Overstrand Municipality

The tables below show the totals for the Capital Budget and the Operating Budget for the solid waste management departments ( of the Overstrand Municipality. Income for the Municipality is derived from service charges related to collection from domestic and business refuse removal as well as sales. The tariffs are also indicated below.

**Table 3-12: Solid Waste Tariffs**

	2014/2015		2013/2014	
	Excl. VAT	Incl. VAT	Excl. VAT	Incl. VAT
<b>Refuse Removal (1 removal per week of 4 bags or 1x240l Bin)</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>
<b>Domestic Waste</b>				
Residential (All registered erven/unit with approved building plan) 1 x removal per week (R/month)	130.18	148.40	122.81	140.00
Residential Indigent (All registered erven/unit with approved building plan) 1 x removal per week (R/month)	130.18	148.40	122.81	140.00
<b>Business Waste</b>				
Commercial/Businesses (Hostels, Old Age Homes, Caravan Sites, Semi-permanent Resorts etc) (R/month)	130.18	148.40	122.81	140.00
Bulk Container 240l (Wheelie bin) (R/month) 1 x per week (if available)	130.18	148.40	122.81	140.00
Bulk Container 240l (Wheelie bin) (R/month) 2 x per week (if available)	260.35	296.80	245.61	280.00
Bulk Container 240l (Wheelie bin) (R/month) 3 x per week CBD (if available)	390.53	445.20	368.42	420.00
Bulk Container 240l (Wheelie bin) (R/month) 4 x per week CBD (if available)	520.70	593.60	491.23	560.00
Bulk Container 240l (Wheelie bin) (R/month) 5 x per week CBD (if available)	650.88	742.00	614.04	700.00
Camphill Route (R/month) (If available)	1022.80	1166.00	964.91	1100.00
Additional Removals per week on Saturday per Bin (R/month) Peak Time per removal	195.26	222.60	184.21	210.00
Additional Removals on request Central Town (CBD) per bin (R/month) Peak Time per removal	260.35	296.80	245.61	280.00
Caravan Sites, Chalets, Semi-permanent & Resorts (R/month) (Uilenkraalsmond Vakansieoord; Franskraal Vakansieoord; Pearly Beach Camp; Michael Fuchs Guesthouse) NO REMOVAL (per unit/site)	41.84	47.70	39.47	45.00
Departmental Consumption (Municipal Consumption per removal site per month)	111.58	127.20	105.26	120.00
Schools (R/month)	130.18	148.40	122.81	140.00
Removal outside service area (per removal per hour) (If available)	976.31	1113.00	921.05	1050.00
Single Quarters & Transit Camps per unit	41.84	47.70	39.47	45.00
Guesthouses, Bed & Breakfast (R/month)	130.18	148.40	122.81	140.00
<b>Self Dumping Transfer Stations &amp; Dumping Sites</b>				
Vehicles >1 & up to 2 Ton per load	149.12	170.00	140.35	160.00
Vehicles >2 & up to 3 Ton per load	223.68	255.00	210.53	240.00
Vehicles >3 & up to 4 Ton per load	298.25	340.00	280.70	320.00
Vehicles >4 & up to 5 Ton per load	371.93	424.00	350.88	400.00

	2014/2015		2013/2014	
	Excl. VAT	Incl. VAT	Excl. VAT	Incl. VAT
<b>Refuse Removal (1 removal per week of 4 bags or 1x240l Bin)</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>
Vehicles >5 & up to 6 Ton per load (no admission to transfer station, only to dumping sites)	446.49	509.00	421.05	480.00
Vehicles >6 & up to 7 Ton per load (no admission to transfer station, only to dumping sites)	521.05	594.00	491.23	560.00
Vehicles >7 & up to 8 Ton per load (no admission to transfer station, only to dumping sites)	585.97	668.00	552.63	630.00
Vehicles >8 & up to 9 Ton per load (no admission to transfer station, only to dumping sites)	660.53	753.00	622.81	710.00
Vehicles >9 & up to 10 Ton per load (no admission to transfer station, only to dumping sites)	735.09	838.00	692.98	790.00
Vehicles >10 Ton per load (no admission to transfer station, only to dumping sites)	883.33	1007.00	833.33	950.00
<b>Basic Fee Refuse Service (Erven without approved building plans)</b>				
All registered erven without building plans (R/month)	65.08	74.20	61.40	70.00
<b>Sundries</b>				
Rental of Bulk Container per day (including disposal)	68.86	78.50	64.91	74.00
Deposit - rental of bulk containers per 4 bins or less	530.00	no VAT	500.00	no VAT
Asbestos Sheet - per unit	49.30	56.20	46.49	53.00
Baboon Resistant 240l Wheelie Bin with lock delivered to homes on programme	771.75	879.80	728.07	830.00

Table 3-13: Solid Waste Budget

	WASTE MANAGEMENT							
	DEPARTMENTS							
	3400 Solid Waste Disposal: B/Bay	3410 Solid Waste Disposal: Hawston	3420 Solid Waste Disposal: Voelklip	3430 Solid Waste Disposal: Stanford	3440 Refuse Disposal: P/Beach (Trfst)	3510 Solid Waste Disposal: Hermanus	3620 Waste Disposal Site: Gansbaai	3640 Overstrand: Solid Waste Disp.
SALARIES	R136 181.00	R115 376.00	R150 139.00	R260 806.00	R268 180.00	R1 369 610.00	R 439 390.00	R -
OPERATIONAL COST	R -	R 2 500.00	R -	R -	R -	R 42 100.00	R -	R -
CONTRACTED SERVICES	R -	R -	R -	R -	R 68 326.00	R 144 500.00	R 54 337.00	R16 115 000.00
INVENTORY	R 7 555.00	R 1 500.00	R 1 400.00	R 12 500.00	R 25 841.00	R 23 180.00	R 251 112.00	R -
DEPRECIATION & AMORTISATION	R 12 534.00	R 40 006.00	R -	R 98 929.00	R 95 814.00	R2 040 130.00	R1 825 923.00	R 534.00
<b>TOTALS</b>	<b>R156 270.00</b>	<b>R159 382.00</b>	<b>R151 539.00</b>	<b>R372 235.00</b>	<b>R 458 161.00</b>	<b>R3 619 520.00</b>	<b>R2 570 762.00</b>	<b>R16 115 534.00</b>

**Note that the detail of the above budget summary has been attached as Annexure 6 and there is no capital budget currently available relating to solid waste management.**



### 3.8 STAFF COMPLIMENT OF EXISTING WASTE MANAGEMENT SYSTEM

The organograms below indicate the staff compliment of the solid waste management departments (Infrastructure & planning and community services).

#### Waste Management Officer:

Chapter 3 of the Waste Act states that:

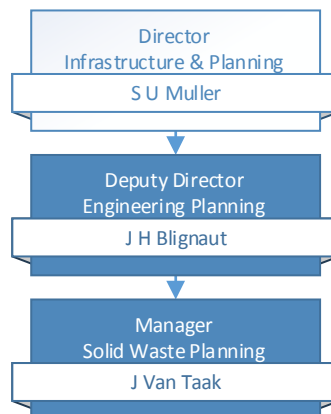
- “10.(3) Each municipality authorised to carry out waste management services by the Municipal Structures Act, 1998 (Act No. 117 of 1998), must designate in writing a waste management officer from its administration to be responsible for co-ordinating matter pertaining to waste management in that municipality.
- (4) A power delegated or a duty assigned to a waste management officer by virtue of subsection (3) may be sub-delegated of further assigned by that officer to another official in the service of the same administration, subject to such limitations or conditions as may be determined by the municipality.
- (5) Waste management officers must co-ordinate their activities with other waste management activities in the manner set out in the national waste management strategy established in terms of section 6 or determined by the Minister by notice in the Gazette.”

The Waste Management Officer for Overstrand Municipality is Mr J van Taak.

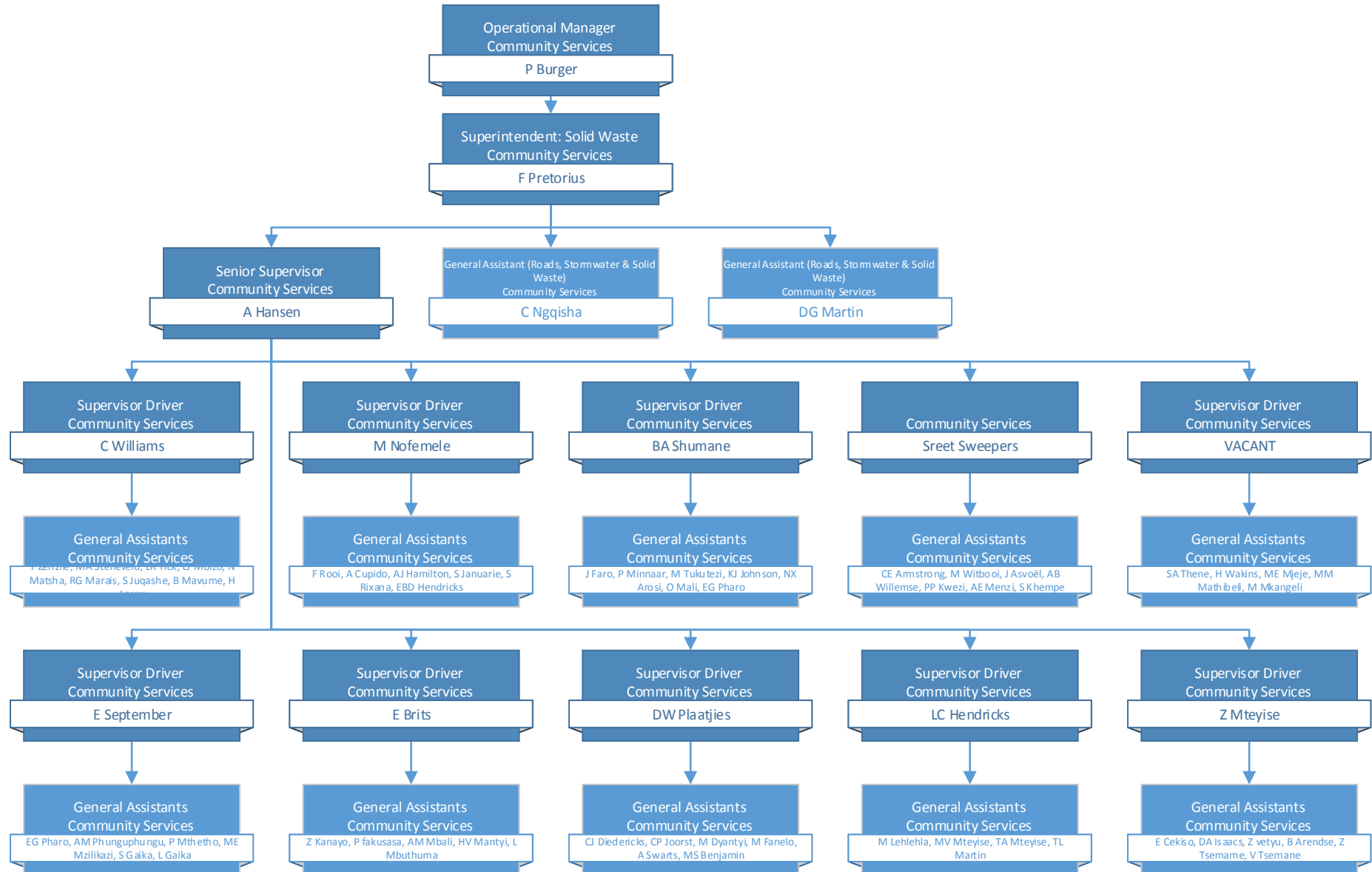
Provision must be made for the continuous training and education of the Overstrand waste management employees. Waste management information sharing/capacity-building events such as the Departmental Waste Forum, Waste Khoro and Wastecon should be attended by waste management employees determined by the Municipality.

The staff compliment is provided in the Organograms below.

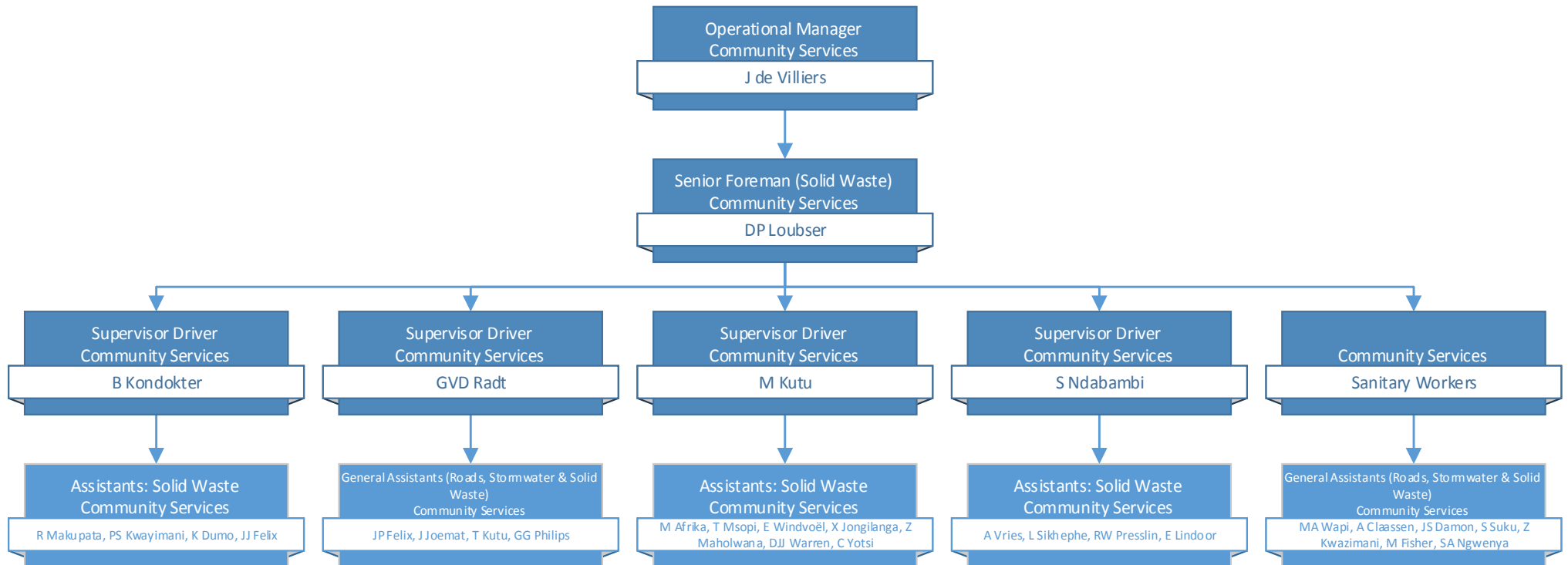
#### OVERSTRAND INFRASTRUCTURE AND PLANNING



HERMANUS & SURROUNDS



GANSBAAI & SURROUNDS



<b>KLEINMOND &amp; SURROUNDS</b>
----------------------------------

<b>KLEINMOND PERSONNEL: STREETS, STORM WATER AND SOLID WASTE</b>					
	D VAN RHODIE		OPERATIONAL MANAGER		
19004	AJ REICHERT		SUPERINTENDENT		
19016	J APLOON	CEM 31789	MACHINE OPERATOR AT TRANSFER STATION		
53032	W HARTNICK	CAM 13541	MACHINE OPERATOR AT TRANSFER STATION		
19052	E OCTOBER		GATE CONTROLLER AT KLEINMOND		
54002	H HULL		TRANSFER STATION KLEINMOND		
53037	L ADONIS		TRANSFER STATION KLEINMOND		
19010	M L MNTUYEDWA		MANS DROP-OFF PRINGLE BAY		
19049	M MAPE		TRANSFER STATION BETTY'S BAY		
53026	S MAKHOLWA		MANS DROP-OFF BETTY'S BAY		
<b>ROOI ELS BLACK AND WHITE BAGS</b>					
19053	A FLORIS	CEM 26897	ROOI ELS	WHITE BAGS	BLACK BAGS
19039	E NOTSHOKOVU				
19028	D MAFENUKA				
<b>PRINGLE BAY WHITE BAGS</b>					
54003	S MADO	CAM 15874	PRINGLE BAY	WHITE BAGS	
19023	A MGOQI				
19041	G SWARTZ				
54047	A BOSMAN				
53048	B COERT				
<b>PRINGLE BAY BLACK BAGS</b>					
21007	D BAARDMAN	CEM 17431	PRINGLE BAY		BLACK BAGS
53045	D MAY				
53044	C HENDRICKS				
53042	S BOOI				
53043	S DYONKILE				
<b>BETTY'S BAY BLACK AND WHITE BAGS HARBOUR AREA</b>					
19047	J THEUNISSEN	CAM 20080	BETTY'S BAY	WHITE BAGS	BLACK BAGS
21025	DEVAN MAKKA				
19011	Z BANGENI				
53035	W J A GRIFFITHS				
19066	RANDALL DUDLEY				
53028	J H HARTOG				
19061	J S ROSSOUW				
<b>BETTY'S BAY BLACK AND WHITE BAGS MOOI UITSIG AREA</b>					
19058	B BOOYSEN	CEM 5372	BETTY'S BAY	WHITE BAGS	BLACK BAGS
53039	M C SOKOYI				
19056	EH MAY				
19033	G CAROLUS				
<b>KLEINMOND GERMAN TOWN AND BETTY'S BAY SUNNY SEAS BLACK BAGS</b>					
19021	D CRONJE	CEM 14080	KLEINMOND		BLACK BAGS
19015	M H GUDU				
19007	J DANIELS				
19030	J NYANGIWE				

<b>KLEINMOND GERMAN TOWN AND BETTY'S BAY SUNNY SEAS WHITE BAGS</b>					
19009	P GALANT	CEM 33776	KLEINMOND	WIT SAKKE	
19006	D SEPTEMBER				
19031	Z MXHOSA				
<b>KLEINMOND ABOVE MAIN ROAD AND EXTENSION THREE BLACK BAGS</b>					
54046	M THOMAS	CEM 11377	KLEINMOND		BLACK BAGS
19065	G BRINKHUIS				
19060	K RAMOSALA				
19012	D NYANGIWE				
19063	V MZIM				
<b>KLEINMOND ABOVE MAIN ROAD AND EXTENSION THREE WHITE BAGS</b>					
19046	R APPEL	CEM 5139	KLEINMOND		
19036	A E ARENDSE				
53047	E.E OCTOBER				
<b>KLEINMOND ABOVE MAIN ROAD AND EXTENSION THREE WHITE BAGS/ BLACK BAGS</b>					
21006	P LITOLI	CEM 33775	KLEINMOND		BLACK BAGS
EPWP	S NDYAMBO				
<b>KLEINMOND BUSINESSES</b>					
19057	BE HOFFMAN	CAM 9879	KLEINMOND	BUSINESSES	
53046	NEO NKETU				
53049	HOMBISILE NCEDANA				
53033	M RASI				
19040	M H JOHNSON				
53041	M SETI				
<b>STREET BINS, LITTER COLLECTION AND STREET SWEEPING</b>					
19062	M MITCHELL	CEM 28619	KLEINMOND	STREET BINS / SWEEP	
53036	JJ PLAATJIES				
19020	B GWENZANI				
EPWP	N MNQODOLO				
EPWP	N XHASHIMA				
EPWP	O GWADISO				
EPWP	N SIYANGA				
<b>ANDREW THEUNISSEN PARKS' PERSONNEL SERVICES BELOW MAIN ROAD / LAGOON AND PALMIET AREAS</b>					
<b>KLEINMOND BELOW MAIN ROAD BLACK BAGS</b>					
19045	J MOJAKI				
17005	M PIETERSEN				
19042	S SIMON				
19055	J AFRIKA				
21022	G OCTOBER				
21028	S MAVAMBO				
21030	A JOLIN				
31033	J ROUX				

<b>KLEINMOND BELOW MAIN ROAD WHITE BAGS</b>					
19044	C MITCHELL				
21008	J JOHANNES				
75003	S ABRAHAMS				
<b>KLEINMOND PALMIET BLACK BAGS</b>					
19048	W KARELSE				
21017	D OLIVIER				
21020	D DE BRUIN				
21026	D KOLI				
21029	N NKUMANDA				
<b>KLEINMOND PALMIET WHITE BAGS</b>					
19043	R DANIELS				
21031	E MATHUNJIWA				
31032	N HARTOGH				
<b>MONDAYS AND FRIDAYS HARBOUR AND SEA BINS AND TOILETS</b>					
17002	J REX				
21015	M SAKHULO				
<b>DAY CAMPS AND LAGOON EVERY DAY TOILETS AND BINS</b>					
21004	O SAMEULS				
21023	B PHIRI				

### 3.9 CURRENT WASTE MANAGEMENT IDENTIFIED GAPS

The following gaps were identified from the status quo of solid waste management in the Overstrand Municipality:

- Public Awareness and Education.
  - The Municipality is very visible in terms of promoting recycling and waste minimisation through billboards, advertising, school visits, etc. This has only been mentioned as a gap as awareness and education is crucial for integrated waste management success and is an on-going endeavour without an end date.
- Lack of information regarding waste generation types and volumes.
  - A new study regarding the waste stream characterisation must be done, preferably when the use of weighbridges are available. Following the proposed installation of weighbridges at the Hermanus transfer station and Kleinmond transfer station, the characterisation study can be done there. As the Gansbaai landfill is equipped with a weighbridge, the study can commence there.
  - The Youth Jobs in Waste Project can be utilised in order to conduct a survey and obtain new health care and hazardous waste quantities generated by the health care sector and industrial sector.
- Collection Fleet – Age, Condition, Aesthetics, Type.
  - Some vehicles are likely operating beyond their effective lifetimes. These vehicles need to be evaluated to ensure that they are still cost effective and efficient. If not, they need to be replaced. Collection vehicles help in creating the public's perception of waste management and need to be aesthetically pleasing.
- Law enforcement.
  - The levels of illegal dumping need to be reduced by stricter law enforcement on the perpetrators.

- Closed and unlicensed disposal sites.
  - A number of closed disposal facilities in the Overstrand require rehabilitation.
- Solid waste management departments Employees
  - Vacant positions in the departments must be filled.

#### Possible negative impacts of identified gaps on health and the environment

- With lack of public awareness and education, the understanding of a sustainable waste management system will be lacking and public littering will increase. With no realisation of the actual impact of waste on the environment, there would be no reason to be environmentally responsible. The environment will be poisoned by uncontrolled waste which will affect the public at large. An uninformed public will also not participate in waste avoidance and recycling efforts, causing pressure on landfill airspace requirements, hence more landfills need to be constructed to the detriment of the environment.
- With lack of information regarding waste generation types and volumes, no control can be exercised over the generators of these wastes and where it is disposed, possibly illegally.
- If the vehicles in the collection fleet are used past their useful lifetimes, they become a financial liability

### **3.10 WASTE MANAGEMENT STRATEGIC OBJECTIVES**

With the Status Quo of waste management as listed in the previous chapters and the current problems that are experienced by waste management, the way forward is to state the strategic objectives of the Municipality and then to develop action plans or implementation instruments how to achieve the strategic objectives.

Overstrand Municipality is committed to a system of waste management that will see the least possible amount of waste going to modern engineered landfills. This will be achieved through the use of education, law enforcement and material recovery. New and emerging technologies, where applicable and affordable, will also play a part in overall waste management.

The Waste Management Strategic Objectives for Overstrand Municipality on which this Plan is based, commits the municipality to:

- Create an atmosphere in which the environment and natural resources of the region are conserved and protected.
- Develop a communication/information/education strategy to help ensure acceptance of 'ownership' of the strategic objectives among members of the public and industry throughout the municipality and to promote co-operative community action.
- Provide a framework to address the municipality's growing problem of waste management in accordance with best prevailing norms, financial capacity and best environmental practice.
- Provide solutions for the three main objectives:
  - The avoidance of waste generation
  - The reduction of waste volumes
  - The safe disposal of waste

#### **3.10.1 Strategic Objectives**

##### **3.10.1.1 General**

To ensure that Waste Management in the Overstrand Municipal Area complies with South African and International environmental standards so that it is beneficial to industrial and agricultural growth and the public's right to a clean and healthy environment.

##### **3.10.1.2 Waste Avoidance**

To promote the minimisation of the generation of waste.

##### **3.10.1.3 Waste Reduction**

To promote the reduction of all waste so that nothing of neither value, nor anything that can decompose, gets disposed.

#### 3.10.1.4 Waste Disposal

To store, dispose or treat all waste that cannot be avoided nor reduced at licensed facilities with regular operational and environmental monitoring and in accordance with regulatory requirements.

#### 3.10.1.5 Definitions

**WASTE AVOIDANCE** is to avoid material entering the waste stream, e.g. when the generator of the material either re-uses it or gives the material to somebody else as product or raw material. Composting at home is regarded as waste avoidance.

**WASTE REDUCTION** is to reduce the quantity of waste that has been discarded by its generator, e.g. when recyclable materials are recovered at the sidewalk or at a transfer station, materials recovery facility or landfill. Composting of garden waste at a composting facility is regarded as reduction.

**WASTE DISPOSAL** is defined as the storage, treatment or disposal of waste at licensed facilities.

#### 3.10.2 Role of Overstrand Municipality

The role of the local authority in waste management is of vital importance. Overstrand Municipality needs to provide a safe, robust, and secure system for the management of wastes generated in its administrative area.

It is essential that this system can respond to changes in socio-economic situation, to changing waste composition and quantities, and to alterations in the public's perception of waste management issues. Overstrand Municipality must adopt, therefore, a combination of options for handling waste, tailored to meet the needs and prevailing circumstances of its particular administrative area. The combinations utilised will undoubtedly vary over time - reflecting the changing needs of local residents and the environment.

The plans formulated by Overstrand Municipality are specific to the area and its resources. They reflect the availability of suitable waste management facilities in the region, as well as local market demand for recovered materials. Special care must be taken to cater for the volatility of markets for recovered materials by ensuring that there are other suitable options to fall back on, if required. It is, therefore, highly desirable to be able to switch between waste management methods - further emphasising the hazards of relying too heavily on a single policy option instead of a combination of policies.

The Integrated Waste Management Plan of Overstrand Municipality is a requirement of the Waste Act and this plan will be carried out through the upcoming years. This plan takes into account the Municipality's legal obligations regarding waste avoidance, recovery, disposal and general management.



#### 4. OVERSTRAND MUNICIPALITY'S IWMP IMPLEMENTATION ACTIONS, SCHEDULE AND COST ESTIMATES

##### 4.1 IWMP GOAL 1: PUBLIC AWARENESS AND EDUCATION

Goal 1: Awareness & Education						
Objectives/Targets	Actions/Cost Estimates					
	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019 AND ON
Educate, strengthen capacity and raise awareness in integrated waste management. The public will be informed and continually made aware of the impacts of waste on the environment. Municipal staff will receive training and attend forums.	Continue waste education as currently done and make use of the Youth Jobs In Waste project. It is planned that nine individuals will be working in waste awareness and education for the duration of the project.					
	Costs to be determined.					
	Overstrand Municipality Solid Waste employees to attend education seminars and waste forums. Capacity training and education conducted within the Municipality where needed.					
	Costs dependent on number of forums attended as well as costs related to internal training provided by Overstrand Municipality.					

## 4.2 IMWP GOAL 2: IMPROVE WASTE INFORMATION MANAGEMENT

Goal 2: Improve Waste Information Management						
Objectives/Targets	Actions/Cost Estimates					
	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019 AND ON
Ensure the reporting of all waste management facilities to IPWIS. Waste quantification systems to be in place. Registration of hazardous waste generators (industry & medical) and service providers (e.g. transporters).	Registering of waste generators, transporters and recyclers and reporting to the Municipality.					
	Provision has been made for this in the integrated waste management by-laws.					
		Conduct the Waste Characterisation Study				
		Conducted through the Youth Jobs In Waste Project				
	Install a weighbridge at Hermanus transfer station	Install weighbridge at Kleinmond transfer station	Continual recording of weighbridge readings and reporting to the Waste Information System.			
	Costs not from capital budget: Paid for by Greenest Town prize money	R500 000.00				

## 4.3 IMWP GOAL 3: EFFECTIVE SOLID WASTE SERVICE DELIVERY

Goal 3: Effective solid waste service delivery						
Objectives/Targets	Actions/Cost Estimates					
	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019 AND ON
Ensure that waste services are provided in an effective and environmentally responsible manner to all residents of the Overstrand Municipality.	Collection Service Review: The Overstrand Municipality must ensure that all residents receive an affordable waste service at an acceptable level. Current service levels are good and it needs to be ensured that this remains the case. Waste collection planning must be reviewed in order to provide services to new developments. The Town Engineers must liaise with the town planning department to stay up to date with new areas that require or will require service. The complaints registry and service requests must be reviewed by the Waste Management Officer at least weekly to ensure that these are properly addressed.					
	Costs determined by the review.					
	Collection Vehicles Review: The older Municipal collection vehicles currently in the Municipal fleet aged above 7 to 8 years, must be assessed in terms of running cost and effectivity. Where vehicles are operating beyond their effective economic lifetimes or are not the most efficient vehicles for their functions, they must be replaced. It must also be ensured that each vehicle's function is thoroughly assessed in order to replace the old vehicles with the most efficient and cost-effective ones. The Waste Management Officer will be responsible.					
	The review will determine the vehicles which require replacement and provision can be made in the capital budget.					
	Vacant positions need to be filled. In order to provide an effective service, key vacant positions in the solid waste management departments need to be filled.					
	The number of and type of position will determine the additional costs to the Municipality. Competent employees need to be appointed and training provided as necessary.					

## 4.4 IMWP GOAL 4: PROMOTE AND ENSURE WASTE MINIMISATION

Goal 4: Promote and Ensure Waste Minimisation						
Objectives/Targets	Actions/Cost Estimates					
	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019 AND ON
Maximise waste minimisation in the Overstrand Municipality. The aim is to consistently divert high percentages of waste from landfill.				Expand the source separation service where feasible. Part of the collection service review of Goal 3.		
	Current diversion operations yield good waste diversion and includes recycling and garden waste composting. Continue with this standard of diversion and improve ad the budget allows.					

## 4.5 IMWP GOAL 5: IMPROVE REGULATORY COMPLIANCE

Goal 5: Improve Regulatory Compliance						
Objectives/Targets	Actions/Cost Estimates					
	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019 AND ON
<p>Ensure the licensing of all waste management facilities that require licensing. Rehabilitate all closed landfills in Overstrand. Ensure auditing of waste management facilities and compliance with license conditions.</p>	Enforce by-laws and review as is necessary alongside new national and provincial legislation.					
						Acquire closure license for the Gansbaai landfill.
						Not applicable to this IWMP revision. Estimated requirement for 2030.
		Rehabilitate the Onrus, Hermanus, Hawston, Fisherman's Haven, Voëlklip, Stanford and Pearly Beach landfills. Note that the Pearly Beach rehabilitation will be completed under the construction of the new dams at the sewerage works.				
	<p>*Please note that the rehabilitation cost estimates indicated below include professional fees and construction monitoring. The estimate for each site was determined for the end of the 2014 financial year. The costs indicated below have NOT been escalated due to the year of commencement of each rehabilitation is not yet known. However, it is indicated in the issued closure licenses that rehabilitation for each site must start within 5 years from the issue of the license, indicating that rehabilitation should start for each site before 2019. These costs must be redetermined annually. In addition to the rehabilitation costs below, post-closure audits must be conducted once per year and water monitoring twice per year. The annual cost is estimated as R35000.00 per site, which includes water monitoring.</p>					
	<p>Onrus: R7 152 827; Hermanus: R18 431 235; Hawston: R4 052 778; Fisherman's Haven: R5 904 258; Voëlklip: R9 440 861; Stanford: R4 228 013.</p>					
	Conduct annual internal and external audits for waste management facilities. External audit cost estimates indicated below (all facilities that require audits). Costs to fix non-compliant items will be determined by the audit findings.					
	R60 000.00	R63 600.00	R67 416.00	R71 460.96	R75 748.62	