

Appendix C-4: Survey Sheet of Pump Station (KSA)

- (i) Greenwich**
 - (ii) Nanse pen**
 - (iii) Darling Street**
 - (iv) Red Hills Road**
 - (v) Glendale**
 - (vi) Seaview Gardens**
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Survey Sheet of Pump Station

Survey Date: 31-Aug-09 **Surveyor:** K.Henry, A.Acosta, O.Samuel

Items	Specification	
Name of Pump Station	Greenwich Town Pump Station	
Construction Year / Month	year : _____ month :	
Location (name of street / avenue)	Spanish Town Road	
Design capacity	m3/min	
Amount of electricity consumption	kWh/day	
Inlet Sewer	Diameter of inlet pipe	by Gravity / Pressure
	Material of pipe	Reinforced Concrete / <u>Steel</u> / Cast Iron / PVC / GRP / PE(HDPE)
	Invert level of inlet pipe	m MSL
Pump Unit	Number of units units in service	
	Units out of service	
	Type of pump	Self Priming Centrifugal Pump
	Manufacturer of pump / Model	Gorman Rupp
	Bore diameter of pump unit	
	Design capacity per unit (m3/min)	
	Design head of pump (m)	
Back up generator	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Generator for Screens.	
Pump Operation	Operation Hour	NO PUMPS
	Control Method	<input type="checkbox"/> by Unit / <input type="checkbox"/> by ξ
	Mode of control	<input type="checkbox"/> Automatic level switch / <input type="checkbox"/> Other
	On - Off level 1st pump start level	m MSL
	2nd pump start level	m MSL
	3rd pump start level	m MSL
Pump stop level	m MSL	
Maintenance Record	Regular Maintenance / Inspection	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		(If yes, how frequently: Daily)
	Repair / replacement of pump unit	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No NO PUMPS, only channels
		(If yes, in which year: _____)
	Replacement of consumable parts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	(If yes, how frequently: Monthly)	

NO PUMPS.

Present Issue

The preliminary screens are broken, so most of the debris continues into the channels.

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The General overview of the abandoned treatment plant facilities at the greenwich plant now pumping station



The above picture depicts the inlet point where influent from New port west to the newly installed soapberry channel



The above picture depicts the water channel installed which leads to the inlet pipes of the soapberry



The above pictures display the flow meters and the inlet to the 700mm pipe line used at the Greenwich pumping station

Survey Sheet of Pump Station

Survey Date: 31-Aug-09

Surveyor: K.Henry, A.Acosta, O.Samuel

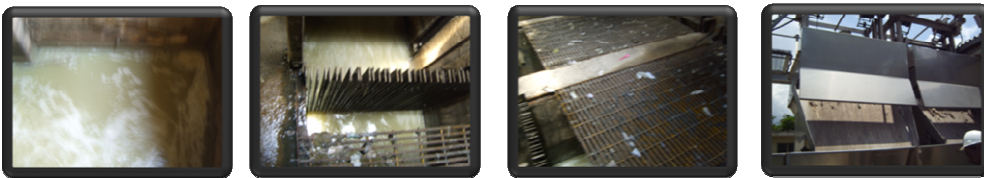
Items		Specification
Name of Pump Station		Nanse Pen Pump Station
Construction Year / Month		year : month :
Location (name of street / avenue)		Spanish Town Road/Nanse Pen Drive
Design capacity		m ³ /min
Amount of electricity consumption		kWh/day
Inlet Sewer	Diameter of inlet pipe	762 mm by Gravity / Pressure
	Material of pipe	Reinforced Concrete / Steel / Cast Iron / PVC / GRP / PE(HDPE)
	Invert level of inlet pipe	m MSL
Pump Unit	Number of units units in service 3	Three
	0 Units out of service	Three
	Type of pump	Wet/Dry Submersible Pump
	Manufacturer of pump / Model	Grundfos
	Bore diameter of pump unit	
	Design capacity per unit (m ³ /min)	
	Design head of pump (m)	
Back up generator	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Pump Operation	Operation Hour	24 hrs
	Control Method	<input checked="" type="checkbox"/> by Unit / <input type="checkbox"/> by Speed
	Mode of control	<input checked="" type="checkbox"/> Automatic level switch / <input type="checkbox"/> Other method
	On - Off level 1st pump start level	m MSL
	2nd pump start level	m MSL
	3rd pump start level	m MSL
Pump stop level	m MSL	
Maintenance Record	Regular Maintenance / Inspection	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		(If yes, how frequently: Daily)
	Repair / replacement of pump unit	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		(If yes, in which year:
Replacement of consumable parts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	(If yes, how frequently: Pump only 18 months old)	
Present Issue		



The general over view the facility at the Nanse Pen



The inlet point at the facility of the Nanse Pen



The Screens at the inlet point at the Nanse Pen Pumping station



The wet wellll at the facility and the route it take to the outlet point



The above images showing the pumps & the 14" outlet pipe which channels to the soapberry

Survey Sheet of Pump Station

Survey Date: 31-Aug-09

Surveyor: K.Henry, A.Acosta, O.Samuels

Items		Specification	
Name of Pump Station		Darling Street Pump Station	
Construction Year / Month		year :	month :
Location (name of street / avenue)		Darling Street Pump Station	
Design capacity		m ³ /min	
Amount of electricity consumption		kWh/day	
Inlet Sewer	Diameter of inlet pipe	254 mm	by Gravity / Pressure
	Material of pipe	Reinforced Concrete / Steel / Cast Iron / PVC / GRP / PE(HDPE)	
	Invert level of inlet pipe	m MSL	
Pump Unit	Number of units units in service 2	Two	
	0 Units out of service	Two	
	Type of pump	Self Priming Centrifugal Pump	
	Manufacturer of pump / Model	Gorman Rupp	
	Bore diameter of pump unit		
	Design capacity per unit (m ³ /min)		
	Design head of pump (m)		
	Back up generator	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Not in Service)
Pump Operation	Operation Hour	24 hrs	
	Control Method	<input checked="" type="checkbox"/> by Unit /	<input type="checkbox"/> by Speed
	Mode of control	<input checked="" type="checkbox"/> Automatic level switch /	<input type="checkbox"/> Other method
	On - Off level	1st pump start level	m MSL
		2nd pump start level	m MSL
		3rd pump start level	m MSL
	Pump stop level	m MSL	
Maintenance Record	Regular Maintenance / Inspection	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		(If yes, how frequently: Daily)	
	Repair / replacement of pump unit	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		(If yes, in which year:	
	Replacement of consumable parts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	(If yes, how frequently: Monthly)		
Present Issue			

Photographs

General view of PS (2~3 shots)

Pump unit (general, front view, side view, tag)

Control panel (general view of control room, front view on panel)

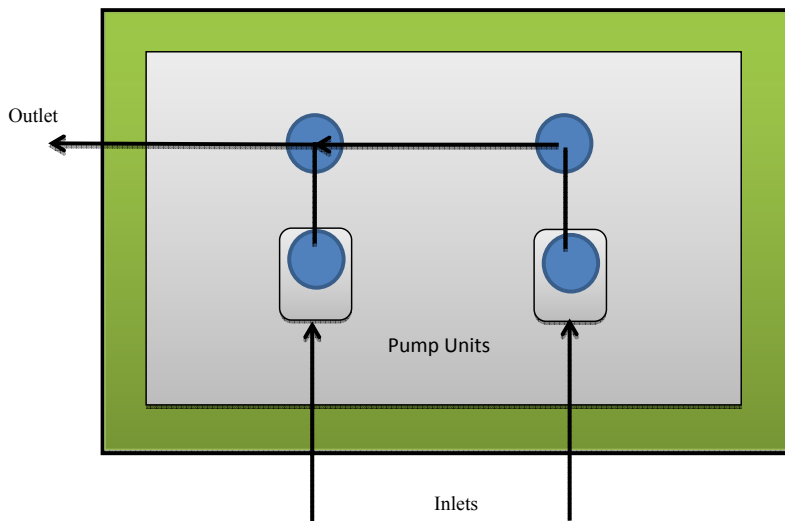
Other (generator etc)



The general over view of the Darling St. Pumping Station



The pumping unit, wet well and the automatic level switch at the Darling St. facility



Survey Sheet of Pump Station

Survey Date: 31-Aug-09 **Surveyor:** K.Henry, A.Acosta, O.Samuel

Items	Specification	
Name of Pump Station	Red Hills Road Pump Station	
Construction Year / Month	year : _____ month :	
Location (name of street / avenue)	Red Hills Road	
Design capacity	m ³ /min	
Amount of electricity consumption	kWh/day	
Inlet Sewer	Diameter of inlet pipe	254 mm by Gravity / Pressure
	Material of pipe	Reinforced Concrete / Steel / Cast Iron / PVC / GRP / PE(HDPE)
	Invert level of inlet pipe	m MSL
Pump Unit	Number of units units in service 1	One
	1 Units out of service	One
	Type of pump	Self Priming Centrifugal Pump
	Manufacturer of pump / Model	Gorman Rupp
	Bore diameter of pump unit	
	Design capacity per unit (m ³ /min)	
	Design head of pump (m)	
Back up generator	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Not in Service)	
Pump Operation	Operation Hour	24 hrs
	Control Method	<input checked="" type="checkbox"/> by Unit / <input type="checkbox"/> by Speed
	Mode of control	<input checked="" type="checkbox"/> Automatic level switch / <input type="checkbox"/> Other method
	On - Off level 1st pump start level	m MSL
	2nd pump start level	m MSL
	3rd pump start level	m MSL
Pump stop level	m MSL	
Maintenance Record	Regular Maintenance / Inspection	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		(If yes, how frequently: Daily)
	Repair / replacement of pump unit	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		(If yes, in which year: _____)
	Replacement of consumable parts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	(If yes, how frequently: Monthly)	

Present Issue

There is an anaerobic sulfur odor that rises from the wet well and leaves a terrible stench in the site.
During power surges, the pump fails to return to power and in turn the stench remains stagnant in the compound.



The above picture depicts the overall view of the much smaller Red Hills Rd. pumping station



The above picture depicts the general piping network at the Red Hills Rd pumping station



The above picture depicts the general condition of the back up generator inside the building housing them

Survey Sheet of Pump Station

Survey Date: 31-Aug-09 Surveyor: K.Henry, A.Acosta, O.Samuel

Items		Specification	
Name of Pump Station		Glendale Pump Station	
Construction Year / Month		year :	month :
Location (name of street / avenue)		Glendale Drive	
Design capacity		m ³ /min	
Amount of electricity consumption		kWh/day	
Inlet Sewer	Diameter of inlet pipe	101.6 mm	by Gravity / Pressure
	Material of pipe	Reinforced Concrete / Steel / Cast Iron / PVC / GRP / PE(HDPE)	
	Invert level of inlet pipe	m MSL	
Pump Unit	Number of units units in service 2	Two	
	0 Units out of service	Zero	
	Type of pump	Self Priming Centrifugal Pump	
	Manufacturer of pump / Model	Gorman Rupp	
	Bore diameter of pump unit		
	Design capacity per unit (m ³ /min)		
	Design head of pump (m)		
	Back up generator	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Not in Service)
Pump Operation	Operation Hour	24 hrs	
	Control Method	<input checked="" type="checkbox"/> by Unit / <input type="checkbox"/> by Speed	
	Mode of control	<input checked="" type="checkbox"/> Automatic level switch / <input type="checkbox"/> Other method	
	On - Off level 1st pump start level	m MSL	
	2nd pump start level	m MSL	
	3rd pump start level	m MSL	
	Pump stop level	m MSL	
Maintenance Record	Regular Maintenance / Inspection	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		(If yes, how frequently: Daily)	
	Repair / replacement of pump unit	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		(If yes, in which year:)	
	Replacement of consumable parts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		(If yes, how frequently: Monthly)	

Present Issue

The present issue that this site faces is the security fences being in disrepair.

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The above picture gives the general overview of the building which houses the pump units and the generator



The Above picture displays the back up generator at the facility which is currently out of service



The above picture displays the Piping network and the pumping units at the Glendale Pumping station

Survey Sheet of Pump Station

Survey Date: 31-Aug-09 **Surveyor:** K.Henry, A.Acosta, O.Samuel

Items	Specification	
Name of Pump Station	Seaview Gardens Pump Station	
Construction Year / Month	year : _____ month :	
Location (name of street / avenue)	East Road	
Design capacity	m ³ /min	
Amount of electricity consumption	kWh/day	
Inlet Sewer	Diameter of inlet pipe	254 mm by Gravity / Pressure
	Material of pipe	Reinforced Concrete / Steel / Cast Iron / PVC / GRP / PE(HDPE)
	Invert level of inlet pipe	m MSL
Pump Unit	Number of units units in service 3	Three
	1 Units out of service	One
	Type of pump	Self Priming Centrifugal Pump
	Manufacturer of pump / Model	Gorman Rupp
	Bore diameter of pump unit	
	Design capacity per unit (m ³ /min)	
	Design head of pump (m)	
Back up generator	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Not in Service)	
Pump Operation	Operation Hour	24 hrs
	Control Method	<input checked="" type="checkbox"/> by Unit / <input type="checkbox"/> by Speed
	Mode of control	<input checked="" type="checkbox"/> Automatic level switch / <input type="checkbox"/> Other method
	On - Off level 1st pump start level	m MSL
	2nd pump start level	m MSL
	3rd pump start level	m MSL
Pump stop level	m MSL	
Maintenance Record	Regular Maintenance / Inspection	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		(If yes, how frequently: Daily)
	Repair / replacement of pump unit	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		(If yes, in which year: _____)
	Replacement of consumable parts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	(If yes, how frequently: Monthly)	
Present Issue		
<p>The current issue that this pump station faces is the fact that one of the pumps are currently undergoing seal problem</p>		

Photographs

General view of PS (2~3 shots)

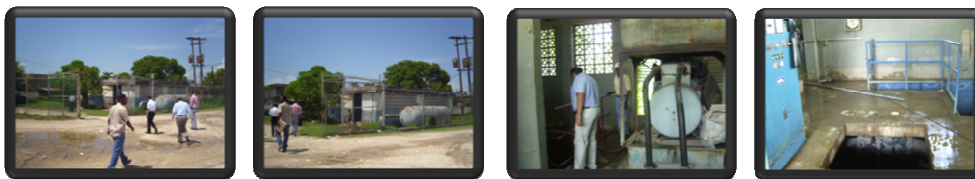
Pump unit (general, front view, side view, tag)

Control panel (general view of control room, front view on panel)

Other (generator etc)



The above pictures depicts the 700mm Fibre glass main line from Greenwich to Seaview Pump Station



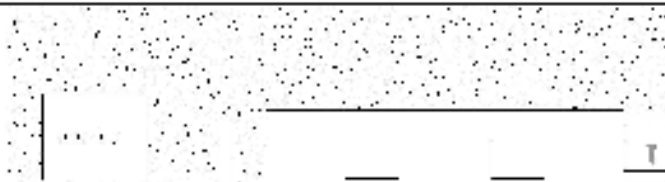
The above pictures display the general overview of the Seaview Pump Station and the main level



The above pictures display the interior of the lower level of the Seaview Pump

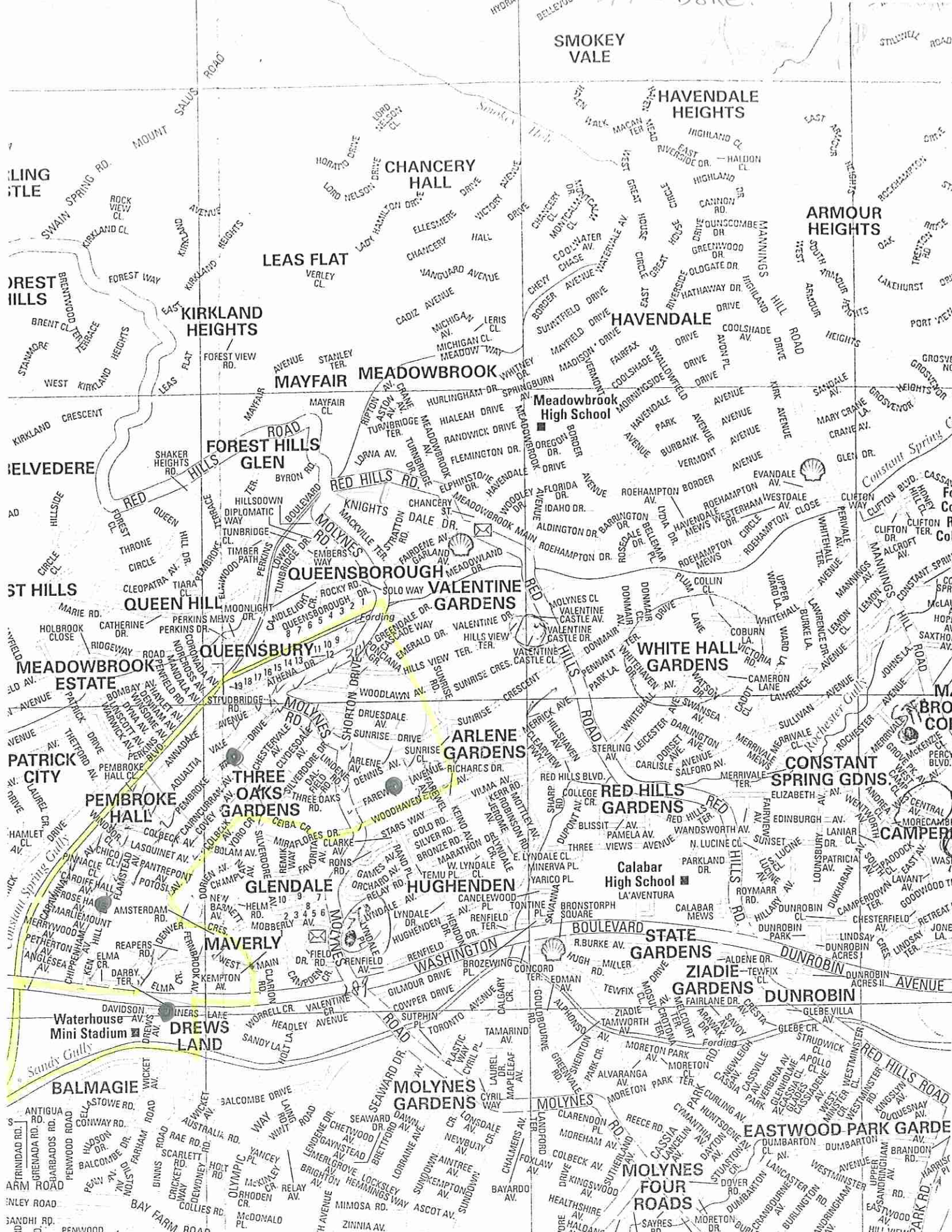


The above pictures display the pipe line that transports the effluent from Nanshe Pen and the Seaview Pumping Station



Appendix C-5: Survey Sheet of Septic tank (KSA)

- (i) Pembroke Hall 4 samples**
 - (ii) Havendale 7 samples**
 - (iii) Birdsucker 3 samples**
 - (iv) Hope Pastures 7 samples**
-



SMOKEY VALE

HAVENDALE HEIGHTS

CHANCERY HALL

LEAS FLAT

KIRKLAND HEIGHTS

MAYFAIR MEADOWBROOK

HAVENDALE

ARMOUR HEIGHTS

FOREST HILLS

Meadowbrook High School

RED HILLS

VALENTINE GARDENS

WHITE HALL GARDENS

QUEENSBOROUGH

ARLENE GARDENS

RED HILLS GARDENS

CONSTANT SPRING GDNS

PEMBROKE HALL

THREE OAKS GARDENS

HUGHENDEN

Calabar High School

ZIADIE GARDENS

MAVERLY

WASHINGTON

BOULEVARD STATE GARDENS

DUNROBIN

BALMAGIE

MOLYNES GARDENS

EASTWOOD PARK GARDE

MOLYNES FOUR ROADS

Survey Sheet of Septic Tank

Survey Date: 2009/2/9

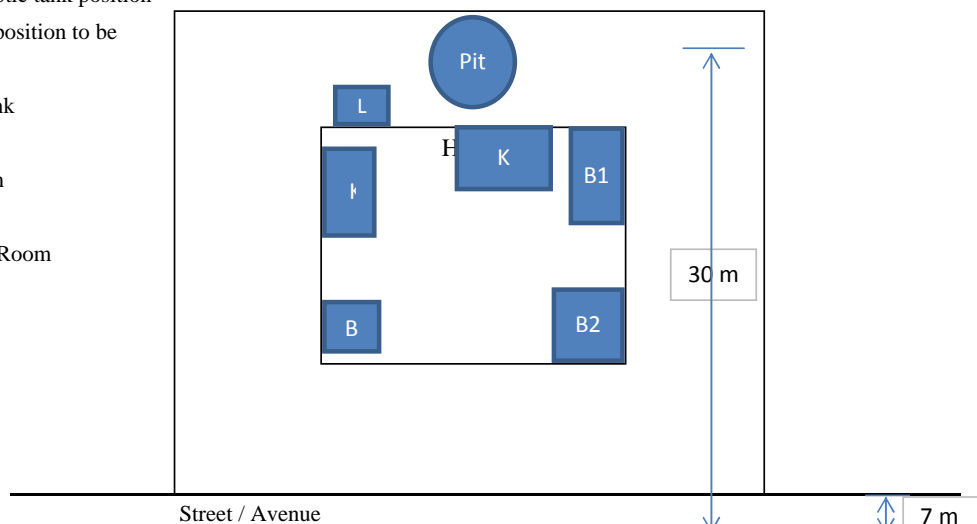
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		10 Farewell Avenue			
House Information	Number of inhabitants	Adult: 3	persons	Children: 3	persons
	Occupation of household head	Retired			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	None
	<input type="checkbox"/> Number of Bathroom	One	Two	Three	
Water Use	Average consumption of piped water	28	m ³ /month		
	Average expenditure for piped water	3000	J\$/month		
	<input type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: 2 gallons/week os per week / month)			
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every	year	Never	
	Cost of sludge removal	J\$/time			
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input checked="" type="checkbox"/> Willingness to connect to sewer	Yes	No	How much?	JMD/month
		If Yes, what is major reason			
		If No, what is major reason			
		The extra cost that would be associated with implementation.			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



Survey Sheet of Septic Tank

Survey Date: 2009/2/9

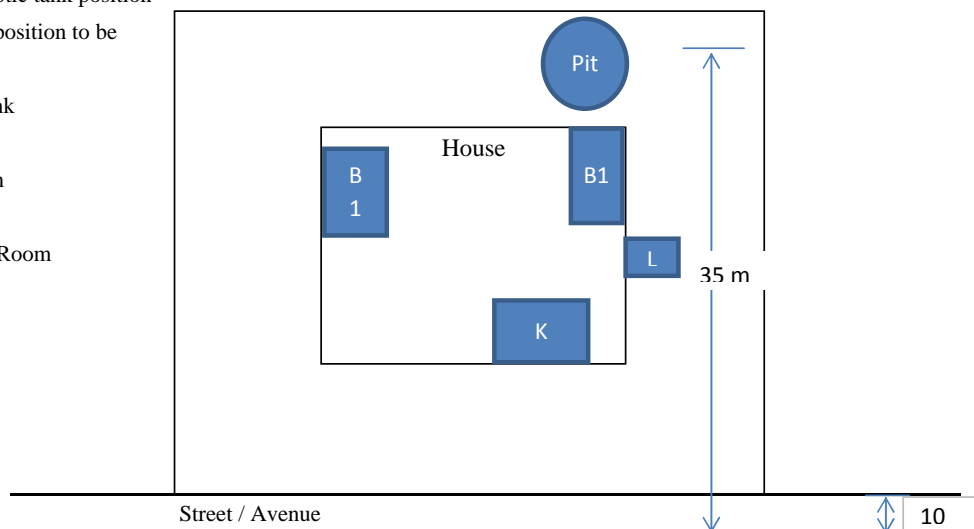
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		22 Pembroke Hall Dr.			
House Information	Number of inhabitants	Adult: 3	persons	Children: 0	persons
	Occupation of household head	Mechanic			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	None
	<input type="checkbox"/> Number of Bathroom	One	Two	Three	
Water Use	Average consumption of piped water	18	m ³ /month		
	Average expenditure for piped water	1500	J\$/month		
	<input type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: 2 gallons/week os per week / month)			
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every One (1) year			
	Cost of sludge removal	7,000	J\$/time		
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input type="checkbox"/> Willingness to connect to sewer	Yes	No	How much?	700 JMD/month
		If Yes, what is major reason			
		The recurring cost associated with removal, would be relinquished.			
		If No, what is major reason			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



Survey Sheet of Septic Tank

Survey Date: 2009/2/9

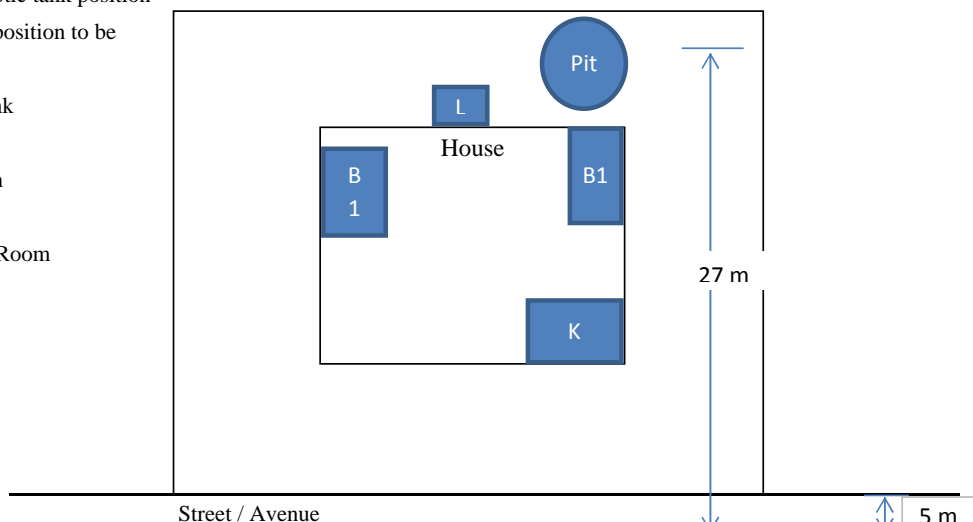
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		52 Davidson Spinner Lane			
House Information	Number of inhabitants	Adult: 1	persons	Children: 0	persons
	Occupation of household head	Labourer			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	None
	<input type="checkbox"/> Number of Bathroom	One	Two	Three	
Water Use	Average consumption of piped water	18	m3/month		
	Average expenditure for piped water	1500	J\$/month		
	<input checked="" type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: 2 gallons/week		os per week / month)	
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every	year	Never	
	Cost of sludge removal	J\$/time			
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input checked="" type="checkbox"/> Willingness to connect to sewer	Yes	No	How much?	JMD/month
		If Yes, what is major reason			
		If No, what is major reason			
		The recurring cost that will be added to the monthly bills is the major deterrent.			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



Survey Sheet of Septic Tank

Survey Date: 2009/2/9

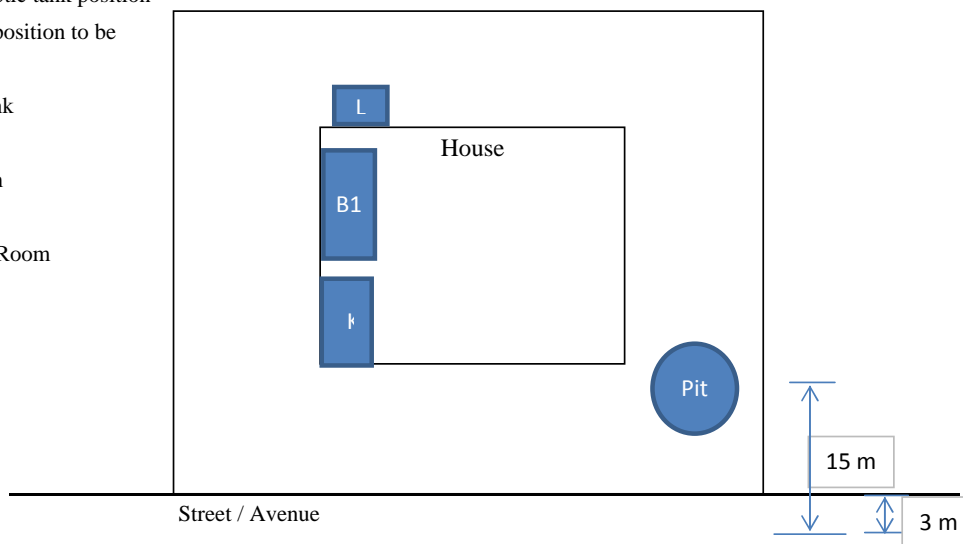
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		143 Ken Hill Drive			
House Information	Number of inhabitants	Adult: 4	persons	Children: 2	persons
	Occupation of household head	Retired			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	None
	<input type="checkbox"/> Number of Bathroom	One	Two	Three	
Water Use	Average consumption of piped water	33	m ³ /month		
	Average expenditure for piped water	3500	J\$/month		
	<input type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: 5 gallons/week os per week / month)			
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every Two (2) year			
	Cost of sludge removal	2,000	J\$/time		
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input type="checkbox"/> Willingness to connect to sewer	Yes	No	How much?	1000 JMD/month
		If Yes, what is major reason			
		Avoiding the inconvenience of cesspool truck coming to residence to remove sludge.			
		Reducing the contamination in the ground water table.			
		If No, what is major reason			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



*Preparation Survey for
Kingston Sewerage Development Project*

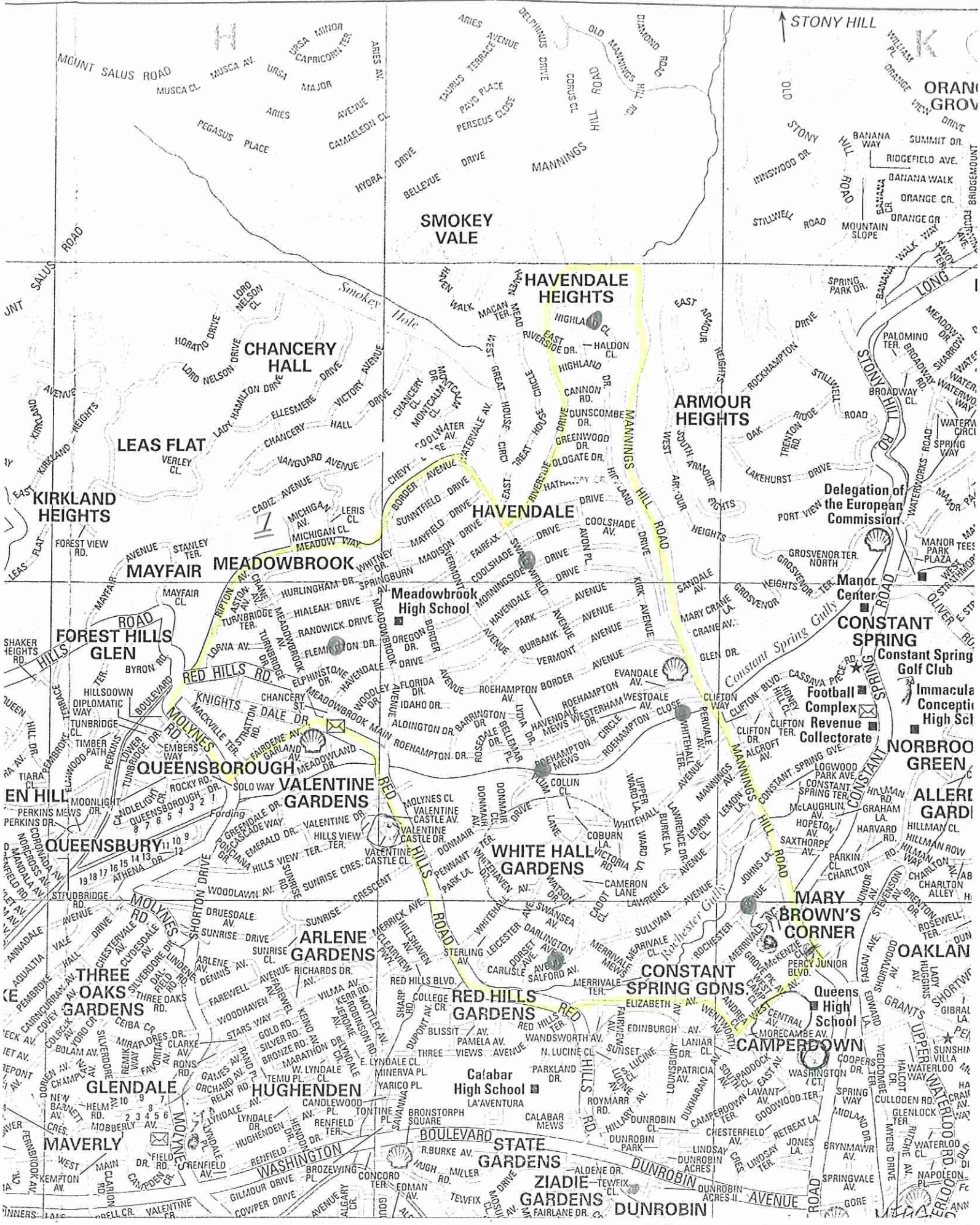
Photographs

General view of septic tank



View of open Soak Away Pit

FOR CONTINUATION OF MAP NORTHWARDS SEE INSET MAP TO THE RIGHT



Survey Sheet of Septic Tank

Survey Date: 2009/2/9

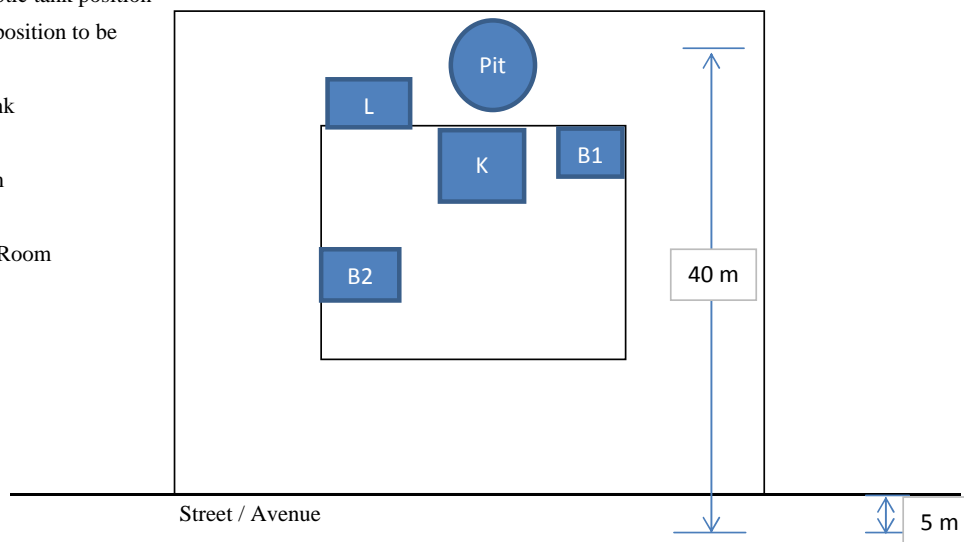
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		1 Lydia Drive			
House Information	Number of inhabitants	Adult: 2	persons	Children: 0	persons
	Occupation of household head	Retired			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	None
	<input type="checkbox"/> Number of Bathroom	One	Two	Three	
Water Use	Average consumption of piped water	14	m ³ /month		
	Average expenditure for piped water	1300	J\$/month		
	<input type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: 5 gallons/week os per week / month)			
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every	year	Never in 25 years.	
	Cost of sludge removal	J\$/time			
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input type="checkbox"/> Willingness to connect to sewer	Yes	No	How much?	500 JMD/month
		If Yes, what is major reason			
		The removal of the awful smell that is associated with the pit.			
		If No, what is major reason			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



Survey Sheet of Septic Tank

Survey Date: 2009/3/9

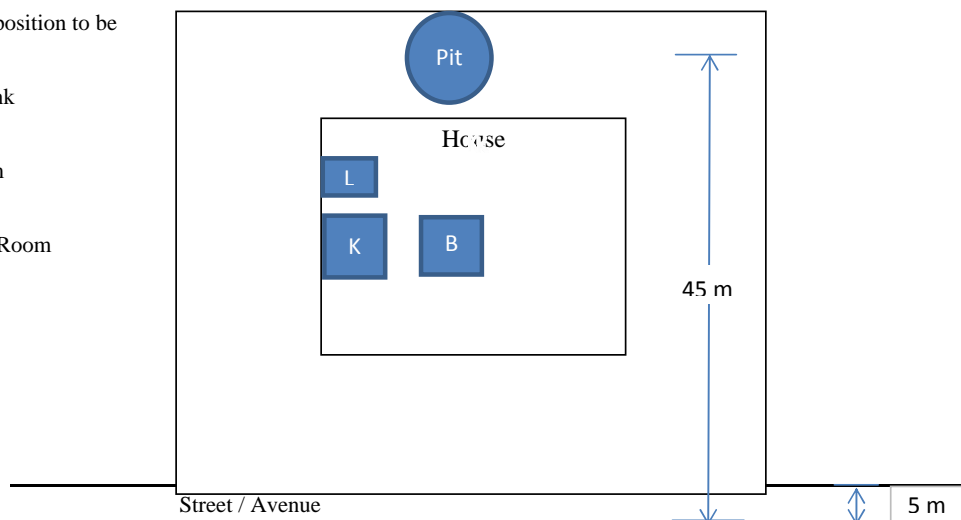
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		6 Carlisle Drive			
House Information	Number of inhabitants	Adult: 2	persons	Children: 1	persons
	Occupation of household head	Freight Worker			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	None
	<input type="checkbox"/> Number of Bathroom	One	Two	Three	
Water Use	Average consumption of piped water	26	m3/month		
	Average expenditure for piped water	4000	J\$/month		
	<input type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: 5 gallons/week os per week / month)			
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every	year	Not in 2 years.	
	Cost of sludge removal	J\$/time			
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input checked="" type="checkbox"/> Willingness to connect to sewer	Yes	No	How much?	JMD/month
		If Yes, what is major reason			
		If No, what is major reason			
		The additional costs that are incurred by joining the system.			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



Survey Sheet of Septic Tank

Survey Date: 2009/2/9

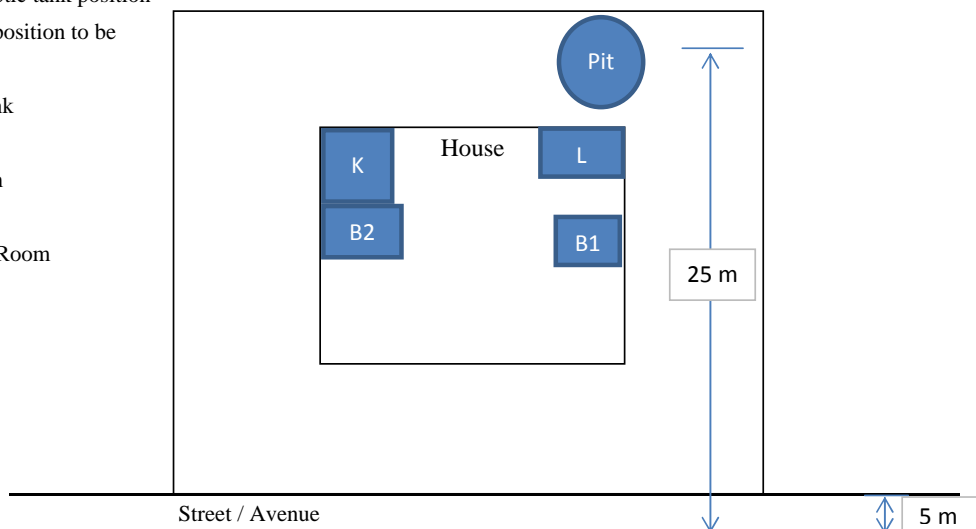
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		9 Roehampton Close			
House Information	Number of inhabitants	Adult: 5	persons	Children: 0	persons
	Occupation of household head	General Worker			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	None
	<input type="checkbox"/> Number of Bathroom	One	Two	Three	
Water Use	Average consumption of piped water	58	m3/month		
	Average expenditure for piped water	10000	JAS/month		
	<input checked="" type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: _____ nos per week / month)			
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every Five (5) year			
	Cost of sludge removal	4,000	JAS/time		
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input type="checkbox"/> Willingness to connect to sewer	Yes	No	How much?	500 JMD/month
		If Yes, what is major reason			
		The beneficial effect that it has on the environment when the sludge is no longer entering the ground.			
		If No, what is major reason			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



Survey Sheet of Septic Tank

Survey Date: 2009/2/9

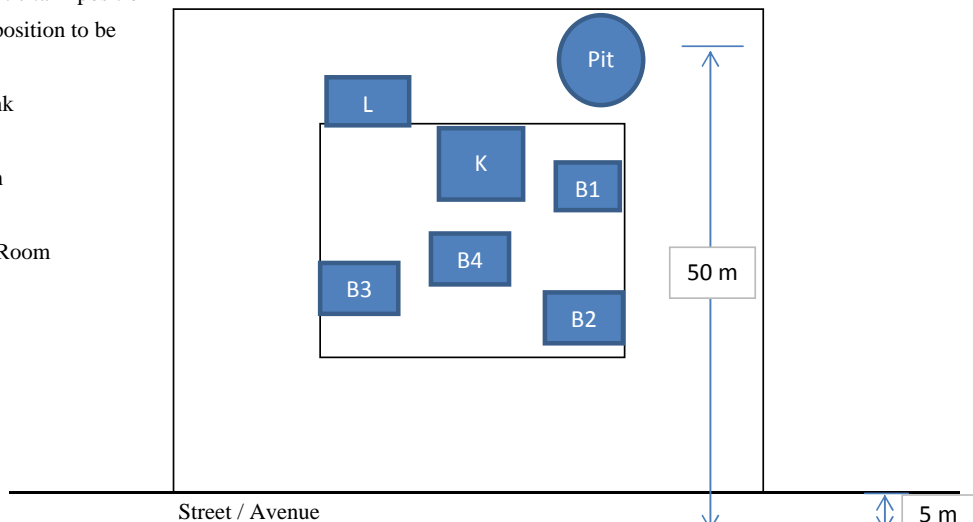
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		14 Highland Close			
House Information	Number of inhabitants	Adult: 3	persons	Children: 2	persons
	Occupation of household head	Housewife			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	
	<input type="checkbox"/> Number of Bathroom	One	Two	Three	Four
Water Use	Average consumption of piped water	23	m3/month		
	Average expenditure for piped water	2500	J\$/month		
	<input checked="" type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: nos per week / month)			
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every Five (5)		year	
	Cost of sludge removal	5,000	J\$/time		
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input type="checkbox"/> Willingness to connect to sewer	Yes	No	How much?	500 JMD/month
		If Yes, what is major reason			
		The savings that is made when connected to the system as opposed to paying for frequent sludge removal by the trucks.			
		If No, what is major reason			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



Survey Sheet of Septic Tank

Survey Date: 2009/3/9

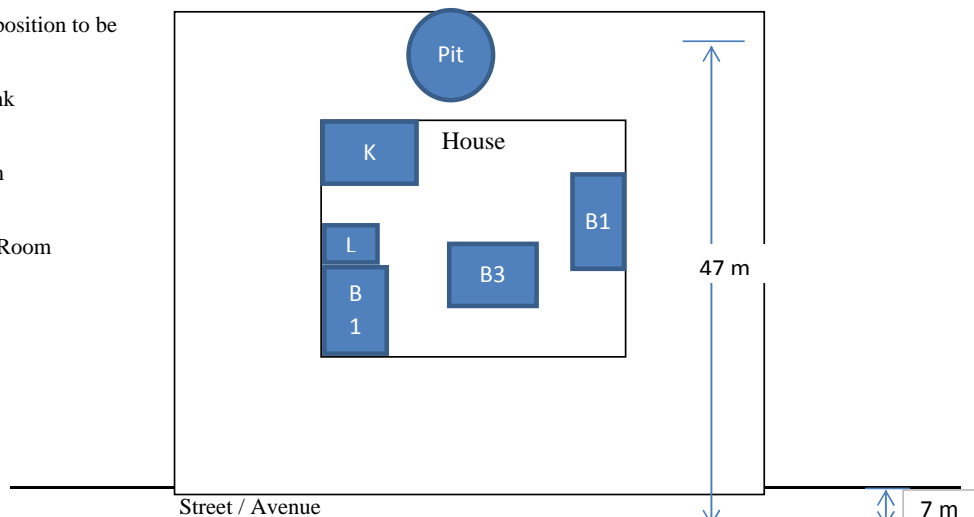
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		18 Rochester Avenue			
House Information	Number of inhabitants	Adult: 5	persons	Children: 0	persons
	Occupation of household head	Tailor			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	
	<input checked="" type="checkbox"/> Number of Bathroom	One	Two	Three	
Water Use	Average consumption of piped water	35	m ³ /month		
	Average expenditure for piped water	3000	J\$/month		
	<input type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: 2 gallons/week os per week / month)			
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every	year	Never	
	Cost of sludge removal	J\$/time			
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input checked="" type="checkbox"/> Willingness to connect to sewer	Yes	No	How much?	JMD/month
		If Yes, what is major reason			
		If No, what is major reason			
		The recurring cost that will be added to the monthly bills is the major deterrent.			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



Survey Sheet of Septic Tank

Survey Date: 2009/3/9

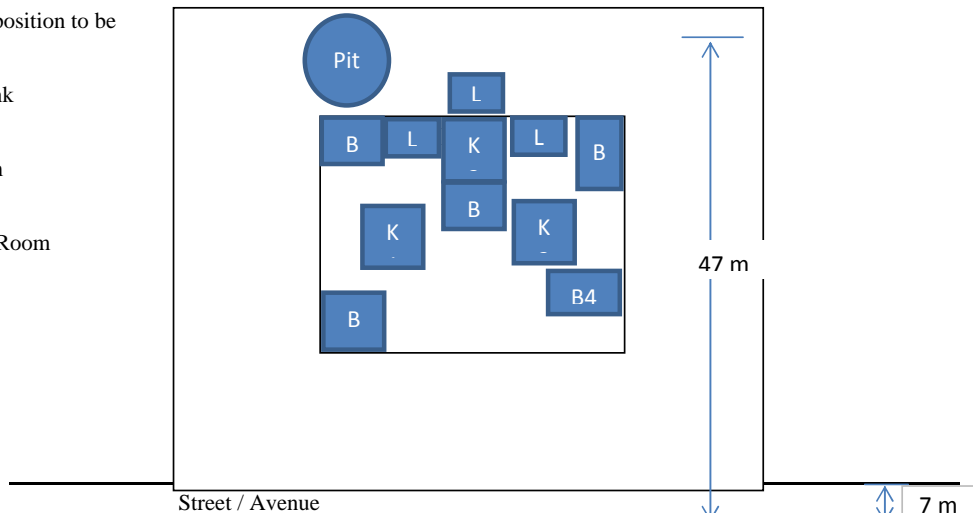
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		26 Flemington Drive			
House Information	Number of inhabitants	Adult: 7	persons	Children: 5	persons
	Occupation of household head	Contractor			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	None
	<input type="checkbox"/> Number of Bathroom	One	Two	Three	Five
Water Use	Average consumption of piped water	95	m3/month		
	Average expenditure for piped water	13500	J\$/month		
	<input checked="" type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: 2 gallons/week os per week / month)			
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every Thirty-Two (32) year			
	Cost of sludge removal	7,500	J\$/time		
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input checked="" type="checkbox"/> Willingness to connect to sewer	Yes	No	How much?	JMD/month
		If Yes, what is major reason			
		If No, what is major reason			
		The recurring cost that will be added to the monthly bills is the major deterrent.			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



Survey Sheet of Septic Tank

Survey Date: 2009/3/9

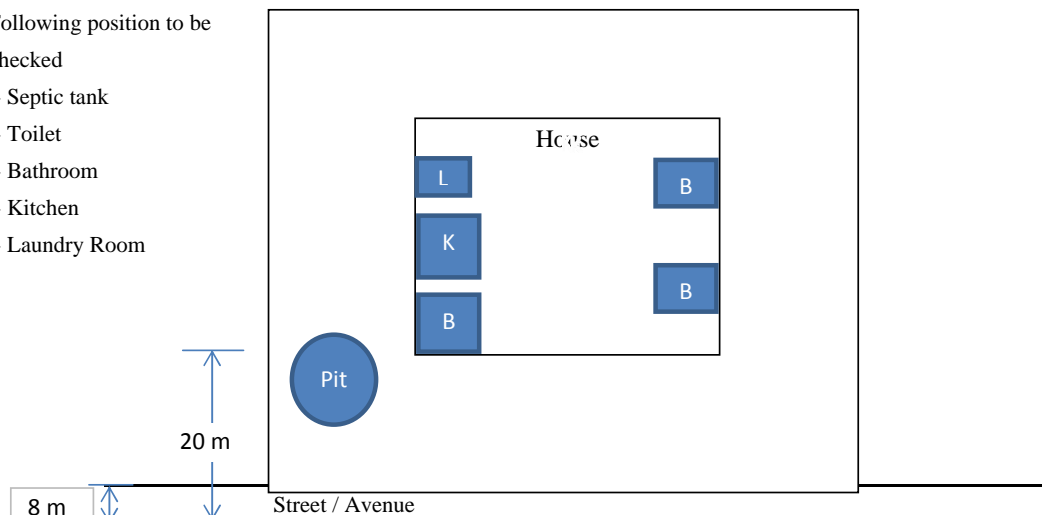
Surveyor: K.Henry, O.Samuels

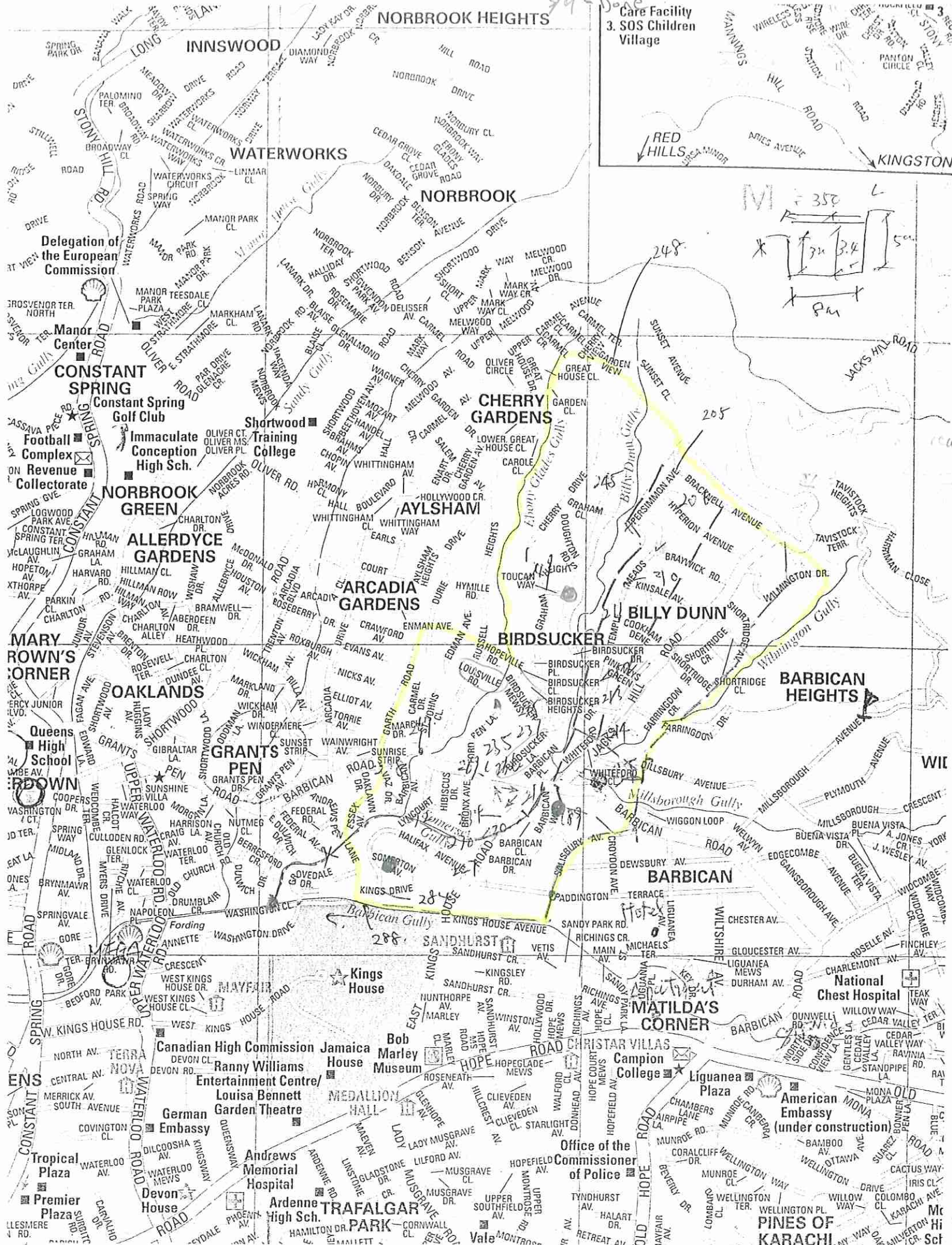
Items		Specification			
Parish		St. Andrew			
Address		40 Morningside Drive			
House Information	Number of inhabitants	Adult: 2	persons	Children: 0	persons
	Occupation of household head	Engineer			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	None
	<input checked="" type="checkbox"/> Number of Bathroom	One	Two	Three	
Water Use	Average consumption of piped water	12	m3/month		
	Average expenditure for piped water	4500	J\$/month		
	<input checked="" type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: nos per week / month)			
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every	year	Never since 1979	
	Cost of sludge removal	3,500	J\$/time		
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input type="checkbox"/> Willingness to connect to sewer	Yes	No	How much?	700 JMD/month
		If Yes, what is major reason			
		The benefit that it gives to the environment is the major reason.			
		If No, what is major reason			

Sketch of septic tank position

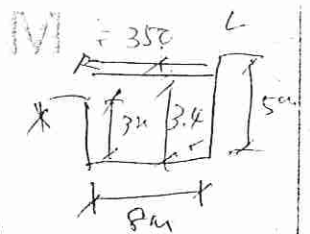
Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room





Care Facility
3. SOS Children
Village



39

Dore

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Survey Sheet of Septic Tank

Survey Date: 2009/3/9

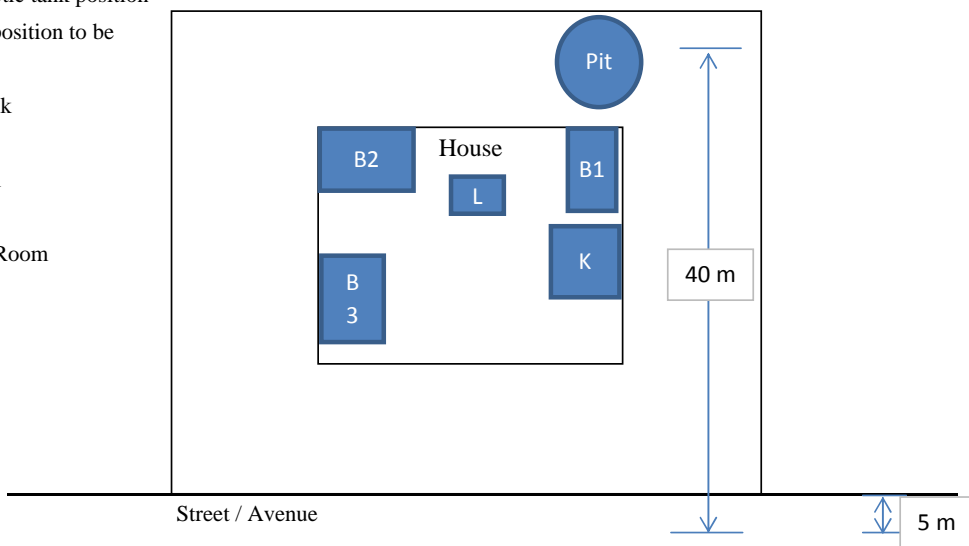
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		1 Somerton Avenue			
House Information	Number of inhabitants	Adult: 3	persons	Children: 2	persons
	Occupation of household head	Film-maker			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	None
	<input checked="" type="checkbox"/> Number of Bathroom	One	Two	Three	
Water Use	Average consumption of piped water	41	m3/month		
	Average expenditure for piped water	4000	J\$/month		
	<input type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: 8 gallons/week os per week / month)			
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every One (1) year			
	Cost of sludge removal	3,000	J\$/time		
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input type="checkbox"/> Willingness to sonnect to sewer	Yes	No	How much?	500 JMD/month
		If Yes, what is major reason			
		The savings that would be made from reducing the amount of sludge removal.			
		If No, what is major reason			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



Survey Sheet of Septic Tank

Survey Date: 2009/3/9

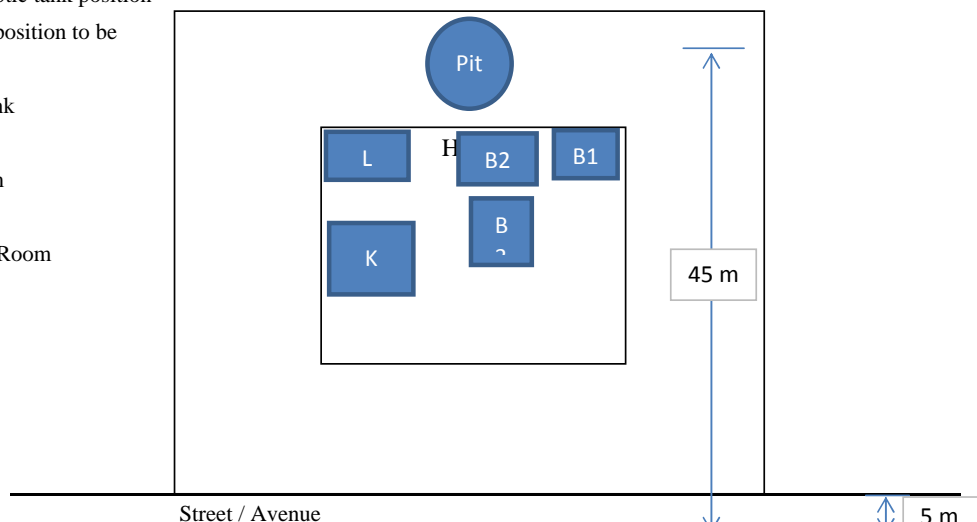
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		8 Braywick Road			
House Information	Number of inhabitants	Adult: 3	persons	Children: 0	persons
	Occupation of household head	Artist			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	
	<input type="checkbox"/> Number of Bathroom	One	Two	Three	Four
Water Use	Average consumption of piped water	25	m3/month		
	Average expenditure for piped water	2000	J\$/month		
	<input type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: 5 Gallon/week		os per week / month)	
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every	year	Never	
	Cost of sludge removal	J\$/time			
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input checked="" type="checkbox"/> Willingness to connect to sewer	Yes	No	How much?	JMD/month
		If Yes, what is major reason			
		The cost of implementation is the only deterrent.			
		If No, what is major reason			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



Survey Sheet of Septic Tank

Survey Date: 2009/2/9

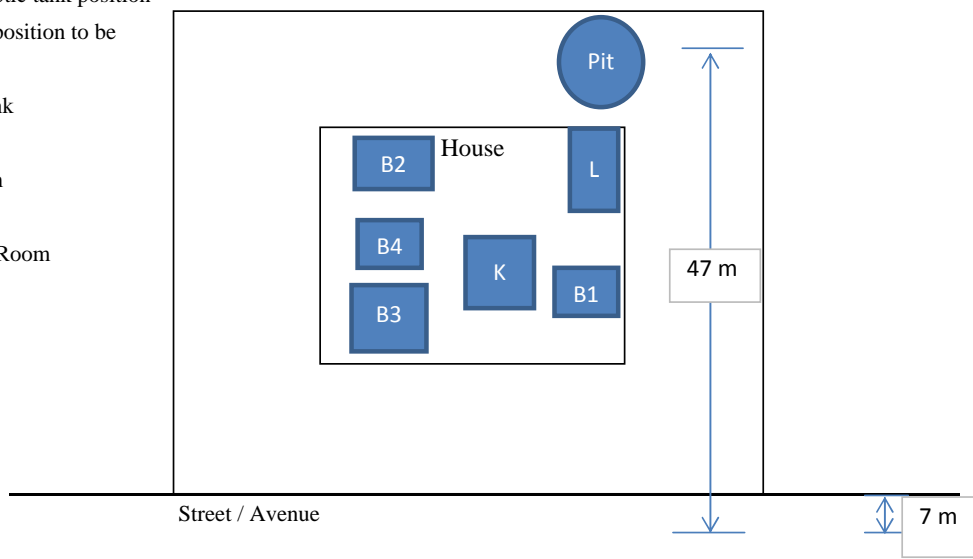
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		11 Toucan Way			
House Information	Number of inhabitants	Adult: 2	persons	Children: 3	persons
	Occupation of household head	Businessman			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	
	<input type="checkbox"/> Number of Bathroom	One	Two	Three	Four
Water Use	Average consumption of piped water	65	m3/month		
	Average expenditure for piped water	3000	J\$/month		
	<input type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: 10 gallons/week		os per week / month)	
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every Four (4)		year	
	Cost of sludge removal	4,000	J\$/time		
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input type="checkbox"/> Willingness to connect to sewer	Yes	No	How much? 500	JMD/month
		If Yes, what is major reason			
		The convenience of not having to remove sludge by way of trucks.			
		If No, what is major reason			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



Survey Sheet of Septic Tank

Survey Date: 2009/3/9

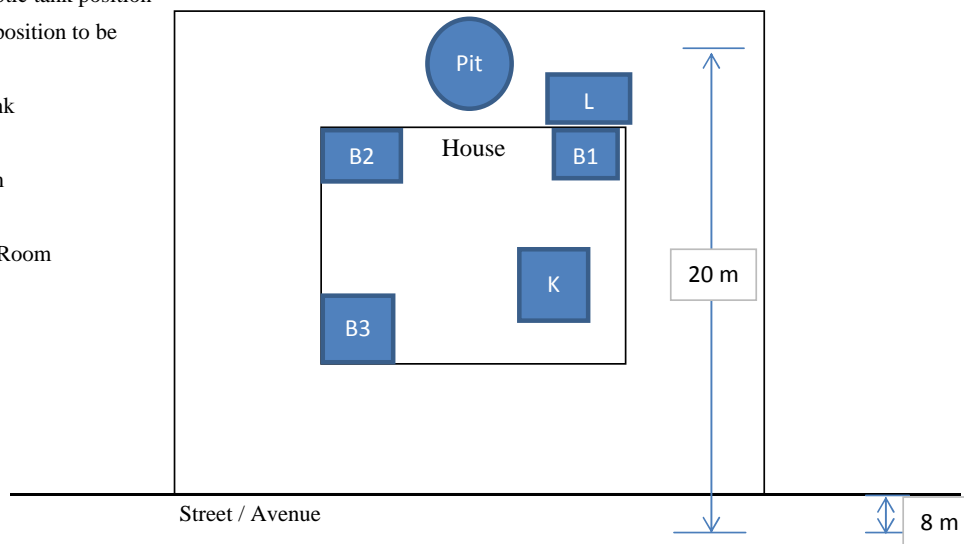
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		12 Barbican Way			
House Information	Number of inhabitants	Adult: 2	persons	Children:	persons
	Occupation of household head	Retired			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	None
	<input checked="" type="checkbox"/> Number of Bathroom	One	Two	Three	
Water Use	Average consumption of piped water	16	m3/month		
	Average expenditure for piped water	1000	J\$/month		
	<input checked="" type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: nos per week / month)			
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every	year	Never in 11 years	
	Cost of sludge removal	J\$/time			
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input type="checkbox"/> Willingness to connect to sewer	Yes	No	How much?	500 JMD/month
		If Yes, what is major reason			
		The convenience of not having to remove sludge by way of trucks.			
		If No, what is major reason			

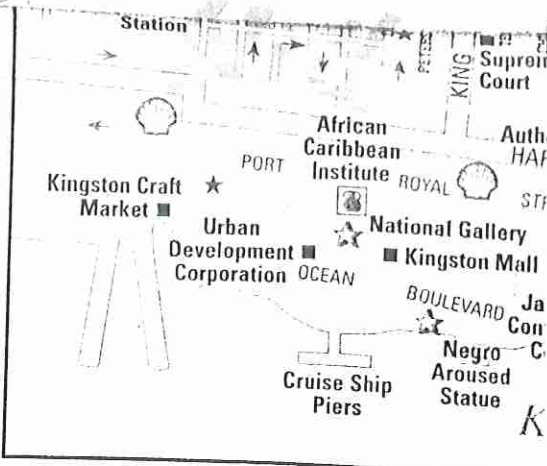
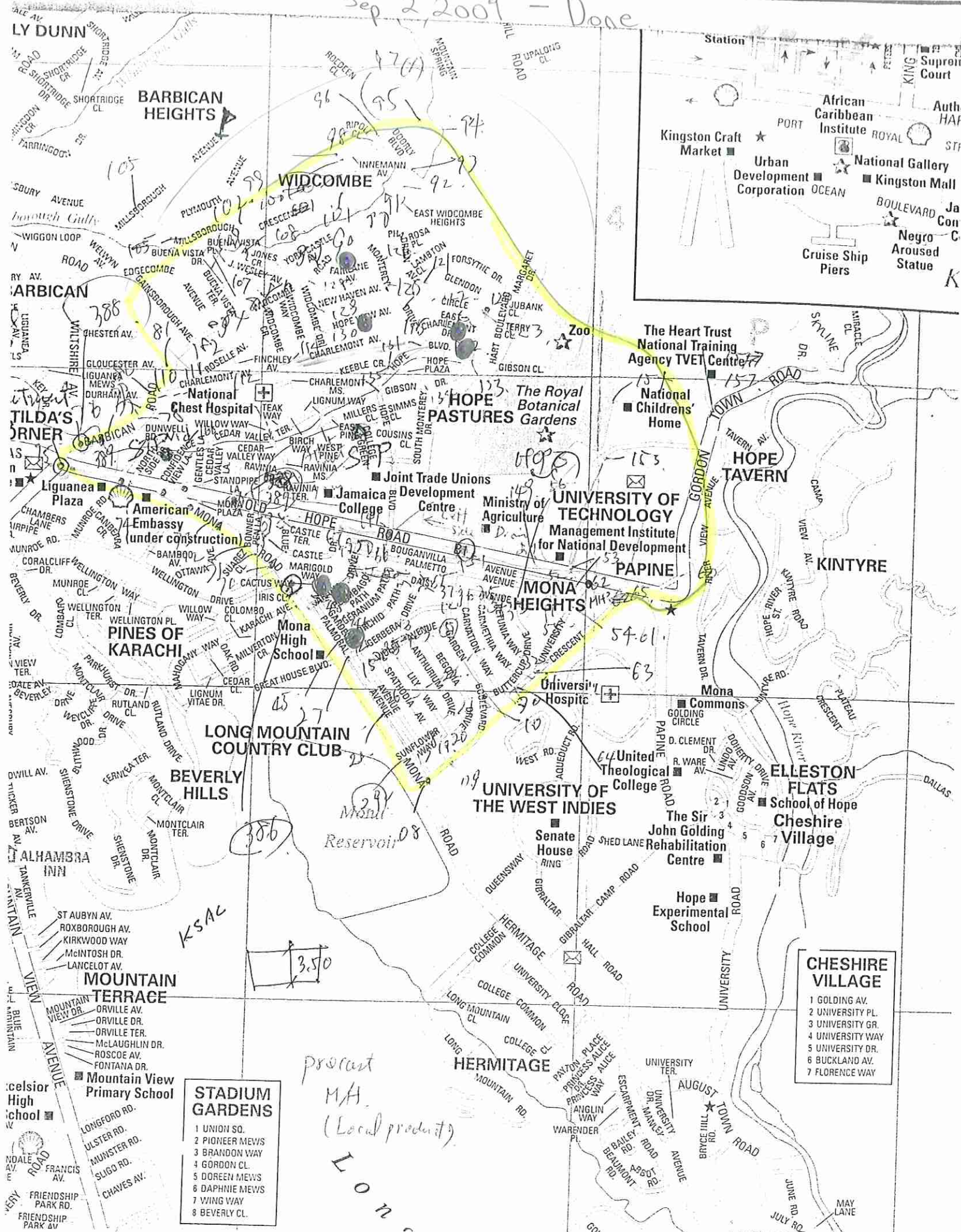
Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



Sep 2, 2009 - Done



- STADIUM GARDENS**
- 1 UNION SQ.
 - 2 PIONEER MEWS
 - 3 BRANDON WAY
 - 4 GORDON CL.
 - 5 DOREEN MEWS
 - 6 DAPHNIE MEWS
 - 7 WING WAY
 - 8 BEVERLY CL.

- CHESHIRE VILLAGE**
- 1 GOLDING AV.
 - 2 UNIVERSITY PL.
 - 3 UNIVERSITY GR.
 - 4 UNIVERSITY WAY
 - 5 UNIVERSITY DR.
 - 6 BUCKLAND AV.
 - 7 FLORENCE WAY

MOUNTAIN VIEW PRIMARY SCHOOL

LONGFORD RD.
ULSTER RD.
MUNSTER RD.
SLIGO RD.
CHAVES AV.

procat
MA.
(Local product)
Lon

CELSIOR HIGH SCHOOL

FRIENDSHIP PARK RD.
FRIENDSHIP PARK AV.

Survey Sheet of Septic Tank

Survey Date: 2009/2/9

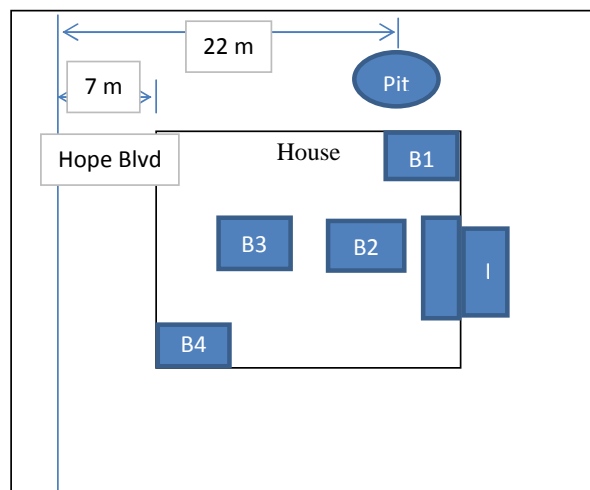
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		6 Hope Blvd.			
House Information <input type="checkbox"/> <input type="checkbox"/>	Number of inhabitants	Adult: 3	persons	Children:	persons
	Occupation of household head	Administrator			
	Number of Restroom	One	Two	Three	None
	Number of Bathroom	One	Two	Three	Four
Water Use <input checked="" type="checkbox"/>	Average consumption of piped water	40	m3/month		
	Average expenditure for piped water	4000	JAS/month		
	Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: nos per week / month)			
Toilet <input checked="" type="checkbox"/>	Type of toilet	Flush Toilet	Pit latrine	Other type	
	Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every 5 year			
	Cost of sludge removal	10,000	JAS/time		
Willingness to sewer connection <input type="checkbox"/>	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	Willingness to connect to sewer	Yes	No		
		If Yes, what is major reason			
		The benefit of not having to pay for sludge removal.			
		If No, what is major reason			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



Street / Avenue

*Preparation Survey for
Kingston Sewerage Development Project*

Photographs

General view of septic tank



View of Closed Soak-Away Pit

Survey Sheet of Septic Tank

Survey Date: 2009/2/9

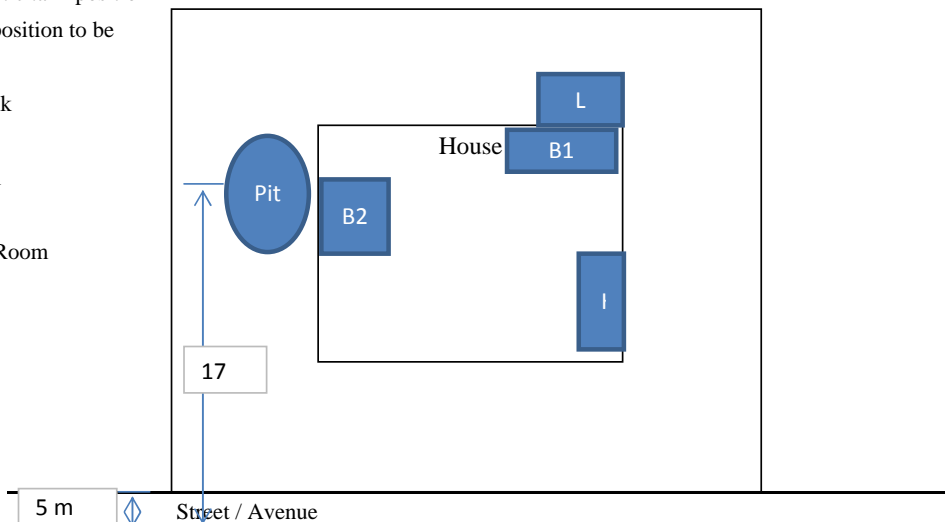
Surveyor: K.Henry, O.Samuels

Items		Specification	
Parish		St. Andrew	
Address		9 Cactus Way	
House Information	Number of inhabitants	Adult: 2 persons	Children: 3 persons
	Occupation of household head	Businessman	
	<input type="checkbox"/> Number of Restroom	One	Two Three
	<input type="checkbox"/> Number of Bathroom	One	Two Three
Water Use	Average consumption of piped water	31	m3/month
	Average expenditure for piped water	3000	J\$/month
	<input checked="" type="checkbox"/> Purchase of bottled water for potable use	Yes	No
		(If yes, how many number: nos per week / month)	
Toilet	Type of toilet	Flush Toilet	Pit latrine Other type
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No
	Frequency of sludge removal	Once every	year Never in 12 years.
	Cost of sludge removal	J\$/time	
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.	
	<input type="checkbox"/> Willingness to connect to sewer	Yes	No
		If Yes, what is major reason	
		If No, what is major reason	
		There is currently no cost incurred to remove sludge, in over 12 years.	

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



*Preparation Survey for
Kingston Sewerage Development Project*

Photographs

General view of septic tank



General View of Open Pit

Survey Sheet of Septic Tank

Survey Date: 2009/2/9

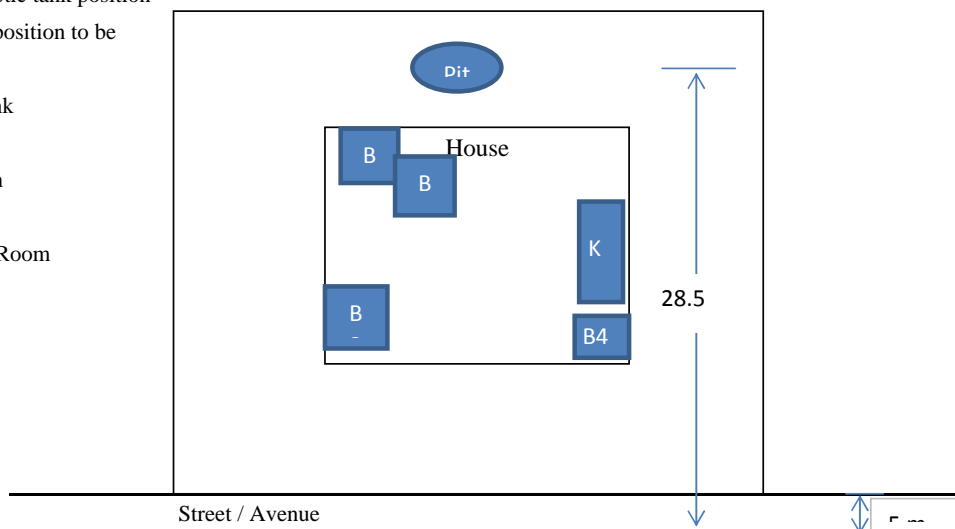
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		11 Fairlane Avenue			
House Information	Number of inhabitants	Adult: 3	persons	Children: 2	persons
	Occupation of household head	Businessman			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	None
	<input type="checkbox"/> Number of Bathroom	One	Two	Three	Four
Water Use	Average consumption of piped water	29	m3/month		
	Average expenditure for piped water	3000	J\$/month		
	<input type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: 5 gallons/week os per week / month)			
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every	year	Never in 25 years.	
	Cost of sludge removal	J\$/time			
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input checked="" type="checkbox"/> Willingness to connect to sewer	Yes	No	How much?	JMD/month
		If Yes, what is major reason			
		If No, what is major reason			
		The additional costs that would be associated with implementation.			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



*Preparation Survey for
Kingston Sewerage Development Project*

Photographs

General view of septic tank



Distant view of the Soak-away pit.

Survey Sheet of Septic Tank

Survey Date: 2009/2/9

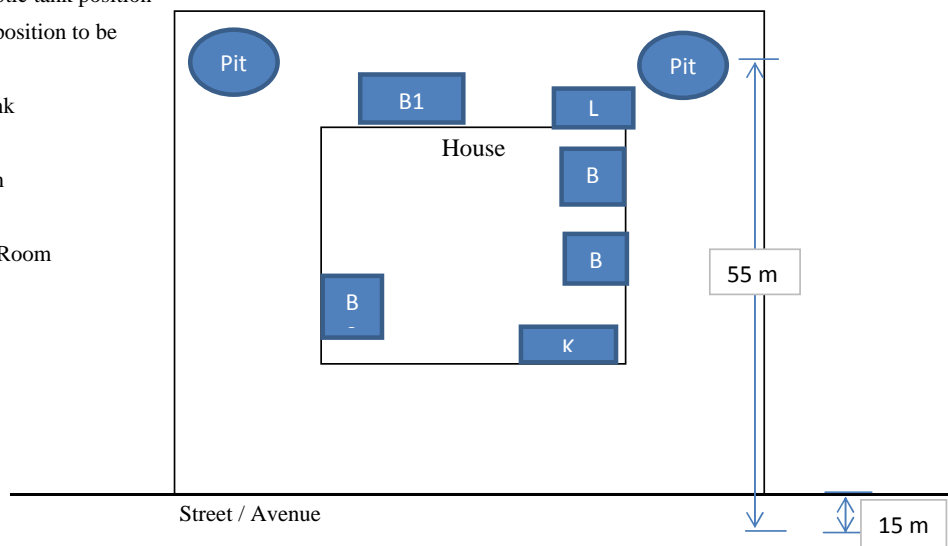
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		15 Charlemont Drive			
House Information	Number of inhabitants	Adult: 3	persons	Children:	persons
	Occupation of household head	Retired			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	None
	<input type="checkbox"/> Number of Bathroom	One	Two	Three	Four
Water Use	Average consumption of piped water	19	m3/month		
	Average expenditure for piped water	1600	J\$/month		
	<input checked="" type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: nos per week / month)			
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once	year	Never since 1975.	
	Cost of sludge removal	0	J\$/time		
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input checked="" type="checkbox"/> Willingness to connect to sewer	Yes	No		
		If Yes, what is major reason			
		If No, what is major reason			
		The cost of connection is the biggest deterrent.			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



*Preparation Survey for
Kingston Sewerage Development Project*

Photographs

General view of septic tank



View of Grease trap

Survey Sheet of Septic Tank

Survey Date: 2009/2/9

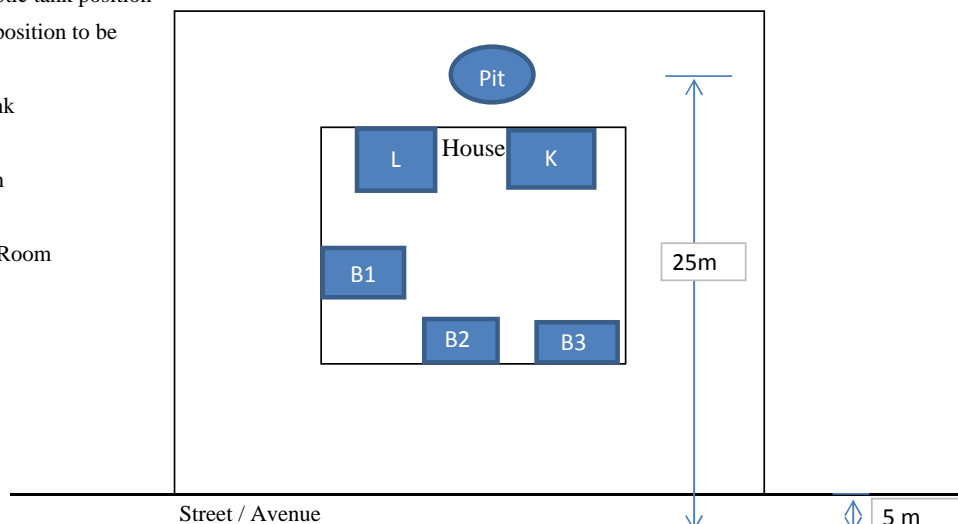
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		27 Hope View Avenue			
House Information <input type="checkbox"/> <input checked="" type="checkbox"/>	Number of inhabitants	Adult: 2	persons	Children:	persons
	Occupation of household head	Executive Director			
	Number of Restroom	One	Two	Three	None
	Number of Bathroom	One	Two	Three	
Water Use <input checked="" type="checkbox"/>	Average consumption of piped water	17	m3/month		
	Average expenditure for piped water	1500	J\$/month		
	Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: nos per week / month)			
Toilet <input checked="" type="checkbox"/>	Type of toilet	Flush Toilet	Pit latrine	Other type	
	Use of septic tank	Yes	No		
	Frequency of sludge removal	Once	year	Never in 8 years.	
	Cost of sludge removal	J\$/time			
Willingness to sewer connection <input checked="" type="checkbox"/>	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	Willingness to connect to sewer	Yes	No		
		If Yes, what is major reason			
		If No, what is major reason			
		The cost of implementation is the biggest deterrent.			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



*Preparation Survey for
Kingston Sewerage Development Project*

Photographs

General view of septic tank



View of Closed Soak-Away Pit

Survey Sheet of Septic Tank

Survey Date: 2009/2/9

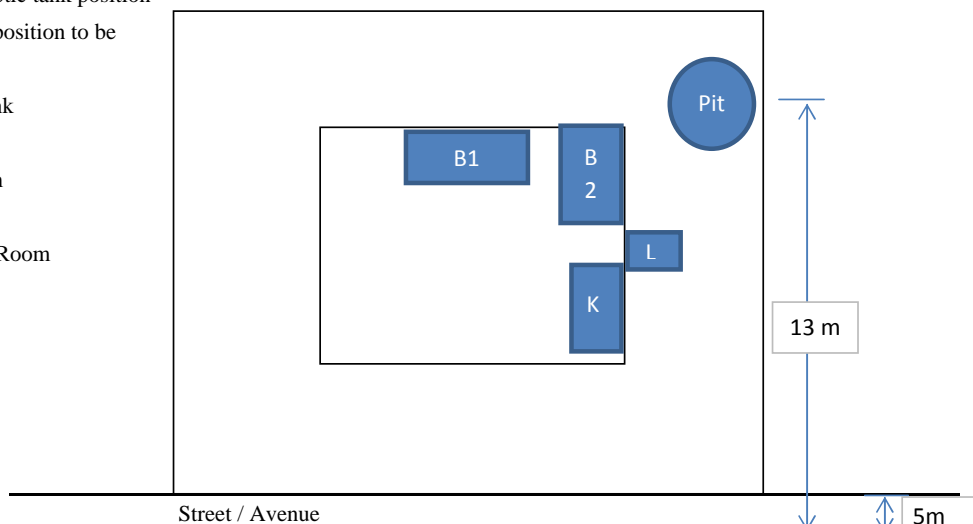
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		29 Gardenia Avenue			
House Information <input type="checkbox"/> <input checked="" type="checkbox"/>	Number of inhabitants	Adult: 3	persons	Children: 2	persons
	Occupation of household head	Attorney			
	Number of Restroom	One	Two	Three	None
	Number of Bathroom	One	Two	Three	
Water Use <input type="checkbox"/>	Average consumption of piped water	39	m3/month		
	Average expenditure for piped water	4000	JAS/month		
	Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: 5 gallons/week		os per week / month)	
Toilet <input checked="" type="checkbox"/>	Type of toilet	Flush Toilet	Pit latrine	Other type	
	Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every Two (2)		year	
	Cost of sludge removal	7,500	JAS/time		
Willingness to sewer connection <input type="checkbox"/>	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	Willingness to connect to sewer	Yes	No	How much? 1000	JMD/month
		If Yes, what is major reason			
		Avoiding the inconvenience of cesspool truck coming to residence to remove sludge.			
		If No, what is major reason			

Sketch of septic tank position

Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



*Preparation Survey for
Kingston Sewerage Development Project*

Photographs

General view of septic tank



Pictures displaying the new septic tank being constructed and the outlet pipe from the bathroom

Survey Sheet of Septic Tank

Survey Date: 2009/2/9

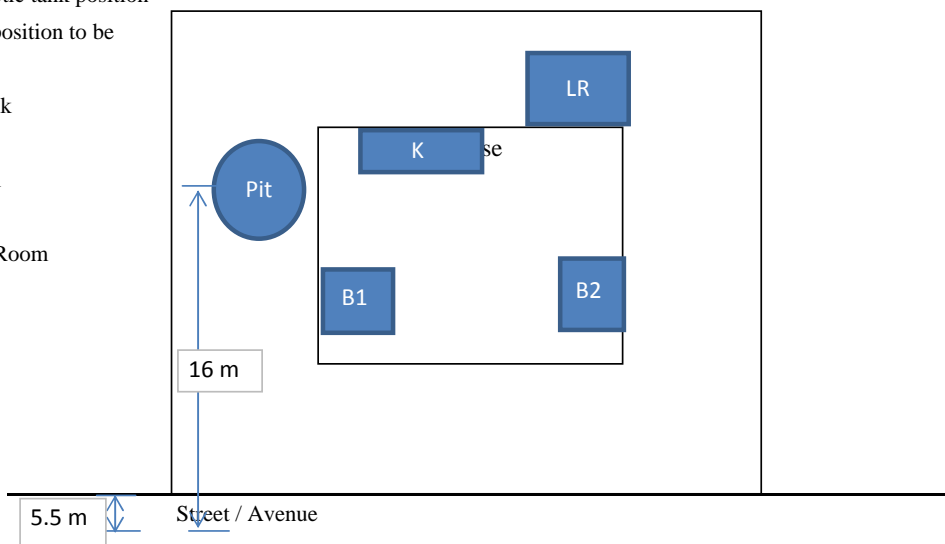
Surveyor: K.Henry, O.Samuels

Items		Specification			
Parish		St. Andrew			
Address		Aralia Drive/Cactus Way			
House Information	Number of inhabitants	Adult: 3	persons	Children: 3	persons
	Occupation of household head	Students			
	<input type="checkbox"/> Number of Restroom	One	Two	Three	None
	<input type="checkbox"/> Number of Bathroom	One	Two	Three	
Water Use	Average consumption of piped water	39	m3/month		
	Average expenditure for piped water	4000	JAS/month		
	<input checked="" type="checkbox"/> Purchase of bottled water for potable use	Yes	No		
		(If yes, how many number: 10 gallons/week os per week / month)			
Toilet	Type of toilet	Flush Toilet	Pit latrine	Other type	
	<input checked="" type="checkbox"/> Use of septic tank	Yes	No		
	Frequency of sludge removal	Once every Three (3)		year	
	Cost of sludge removal	10,000	JAS/time		
Willingness to sewer connection	Condition after sewer connection	You have to install house sewer collectors by your expense and pay sewerage charge permanently. But you will be free from maintenance of septic tank, offensive odor from toilet. Sanitary environment in/around your house will be improved after connection to public sewerage system.			
	<input type="checkbox"/> Willingness to connect to sewer	Yes	No	How much? 1000	JMD/month
		If Yes, what is major reason			
		The smell that is associated with the sewage would be eradicated.			
		If No, what is major reason			

Sketch of septic tank position

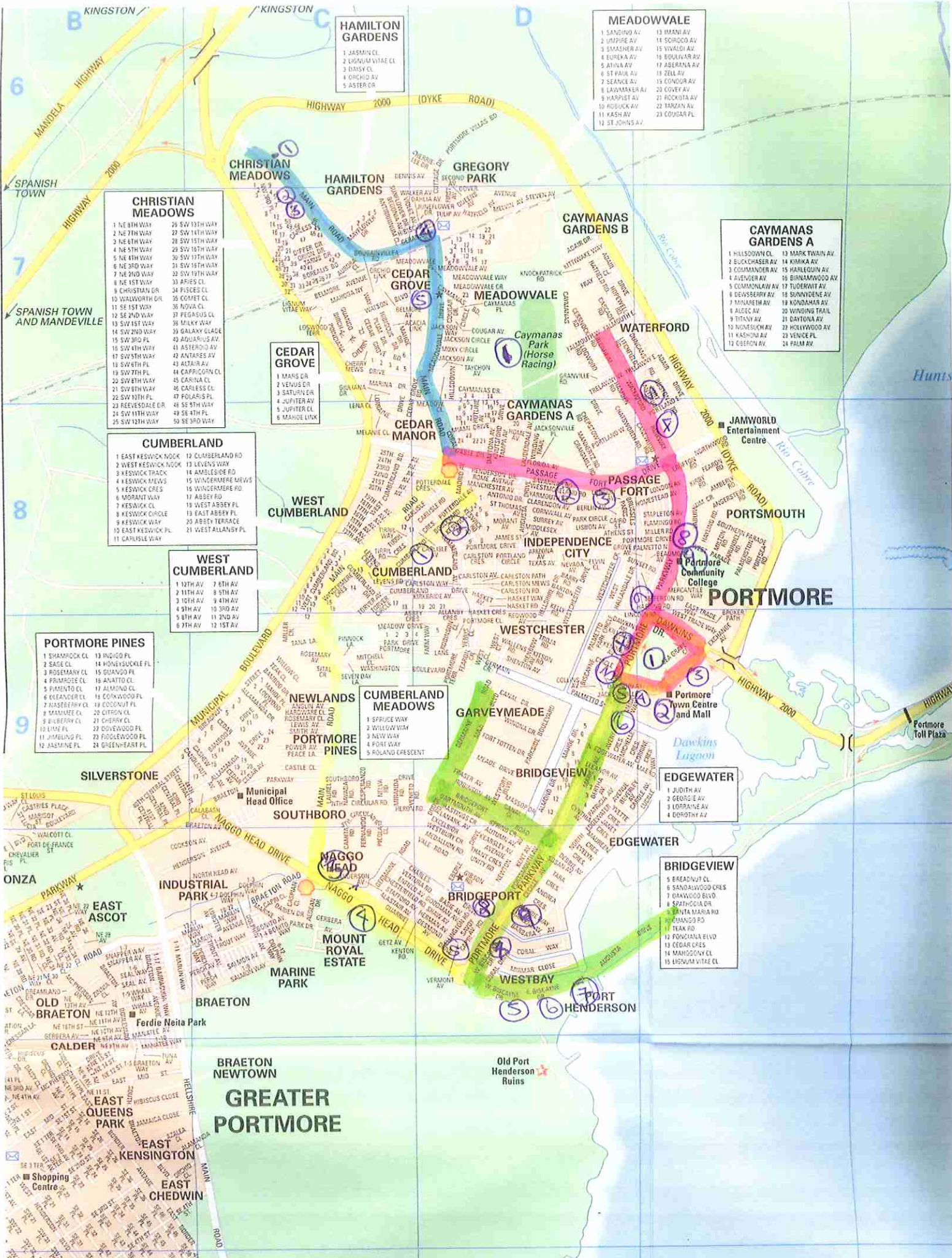
Following position to be checked

- Septic tank
- Toilet
- Bathroom
- Kitchen
- Laundry Room



Appendix C-6: Survey Sheet of Commercial / Industrial / Institutional Sewerage Flows

- (i) Portmore area 778 samples**
 - (ii) KSA 117 samples**
-



- HAMILTON GARDENS**
- 1 JASMINE CL
 - 2 LISIANDIA VITAE CL
 - 3 DIANEY CL
 - 4 ORCHID DR
 - 5 ASTER DR

- MEADOWVALE**
- | | |
|----------------|----------------|
| 1 SANDING AV | 13 IRMAN AV |
| 2 JAFFRE AV | 14 SONGOD AV |
| 3 SMASHER AV | 15 WALVALDI AV |
| 4 EUREKA AV | 16 BUDUWAR AV |
| 5 ATHVA AV | 17 ABERNATH AV |
| 6 ST PAUL AV | 18 ZELL AV |
| 7 SEANCE AV | 19 COVOUR AV |
| 8 LAUNAKER AV | 20 COFFEY AV |
| 9 HOSPIT AV | 21 ROCKHOTA AV |
| 10 ROBUCK AV | 22 TARKAN AV |
| 11 KASH AV | 23 COUSAR PL |
| 12 ST JOHNS AV | |

- CHRISTIAN MEADOWS**
- | | |
|------------------|-----------------|
| 1 NE 8TH WAY | 26 SW 10TH WAY |
| 2 NE 7TH WAY | 27 SW 11TH WAY |
| 3 NE 6TH WAY | 28 SW 12TH WAY |
| 4 NE 5TH WAY | 29 SW 13TH WAY |
| 5 NE 4TH WAY | 30 SW 14TH WAY |
| 6 NE 3RD WAY | 31 SW 15TH WAY |
| 7 NE 2ND WAY | 32 SW 16TH WAY |
| 8 NE 1ST WAY | 33 ARIES CL |
| 9 CHRISTIAN DR | 34 PISCES CL |
| 10 WALWORTH DR | 35 COMET CL |
| 11 SE 1ST WAY | 36 NOVA CL |
| 12 SE 2ND WAY | 37 PEGASUS CL |
| 13 SW 1ST WAY | 38 MILKY WAY |
| 14 SW 2ND WAY | 39 GALAXY GLADE |
| 15 SW 3RD PL | 40 ADRIANUS AV |
| 16 SW 4TH WAY | 41 ASTER DR |
| 17 SW 5TH WAY | 42 ANTARES AV |
| 18 SW 6TH PL | 43 AIDAR AV |
| 19 SW 7TH PL | 44 CAPRICORN CL |
| 20 SW 8TH WAY | 45 CARINA CL |
| 21 SW 9TH WAY | 46 CARLESS CL |
| 22 SW 10TH PL | 47 FOLARIS PL |
| 23 REEVESDALE DR | 48 SE 5TH WAY |
| 24 SW 11TH WAY | 49 SE 4TH PL |
| 25 SW 12TH WAY | 50 SE 3RD WAY |

- CAYMANAS GARDENS A**
- | | |
|-----------------|------------------|
| 1 HILLSDOWN CL | 13 MARK TWAIN AV |
| 2 BUCKCHASER AV | 14 KIMKA AV |
| 3 CUMMANNER AV | 15 HARLEQUIN AV |
| 4 AVEGER AV | 16 BIRNAMWOOD AV |
| 5 CUMMINSWAY AV | 17 TUBERVIT AV |
| 6 DEANSPERRY AV | 18 SUNNYDENE AV |
| 7 MONARETH AV | 19 KONDANAR AV |
| 8 ALDCE AV | 20 WINDING TRAIL |
| 9 TITANY AV | 21 DAYTONA AV |
| 10 NOLANWAY AV | 22 HILLWOOD AV |
| 11 KASHIN AV | 23 VENICE PL |
| 12 GIBSON AV | 24 PALM AV |

- CEDAR GROVE**
- 1 MANS DR
 - 2 VENUS DR
 - 3 SATURN DR
 - 4 JUPITER DR
 - 5 JUPITER LL
 - 6 MAHOE LINK

- CUMBERLAND**
- | | |
|---------------------|--------------------|
| 1 EAST KESWICK NOOK | 12 CUMBERLAND RD |
| 2 WEST KESWICK NOOK | 13 LEVENS WAY |
| 3 KESWICK TRACK | 14 ALEXSDEE RD |
| 4 KESWICK MEWS | 15 WINDERMERE MEWS |
| 5 WINDERMERE CR | 16 WINDERMERE RD |
| 6 MORANT WAY | 17 ABBEY RD |
| 7 KESWICK CL | 18 WEST ABBEY PL |
| 8 KESWICK CIRCLE | 19 EAST ABBEY PL |
| 9 KESWICK WAY | 20 ABBEY TERRACE |
| 10 EAST KESWICK PL | 21 WEST ALLANSY PL |
| 11 CARLSWE WAY | |

- WEST CUMBERLAND**
- | | |
|-----------|-----------|
| 1 12TH AV | 7 6TH AV |
| 2 11TH AV | 8 5TH AV |
| 3 10TH AV | 9 4TH AV |
| 4 9TH AV | 10 3RD AV |
| 5 8TH AV | 11 2ND AV |
| 6 7TH AV | 12 1ST AV |

- PORTMORE PINES**
- | | |
|----------------|-------------------|
| 1 SHAMROCK CL | 13 INDIGO PL |
| 2 SAGE CL | 14 HONEYBUCKLE PL |
| 3 ROSEMARY CL | 15 GUANZO PL |
| 4 PRIMROSE CL | 16 AHATTO CL |
| 5 PINKBLOSS CL | 17 ALMONDO CL |
| 6 CLEANDER CL | 18 COXWOOD PL |
| 7 NARABERRY CL | 19 COCONUT PL |
| 8 MAMALOE CL | 20 CITRUS CL |
| 9 BILBERRY CL | 21 CHERRY CL |
| 10 LIVE PL | 22 DOVEWOOD PL |
| 11 JIMELING PL | 23 RIGGWOOD PL |
| 12 JASMINE PL | 24 GREENHEART PL |

- CUMBERLAND MEADOWS**
- 1 SPRUCE WAY
 - 2 WILLOW WAY
 - 3 NEW WAY
 - 4 FORT WAY
 - 5 ROLAND CRESCENT

- EDGEWATER**
- 1 JUDITH AV
 - 2 GEORGE AV
 - 3 LORRAINE AV
 - 4 DOROTHY AV

- BRIDGEVIEW**
- 5 BREADNUT CL
 - 6 SANDALWOOD CRES
 - 7 BARKWOOD BLVD
 - 8 SPATHIA DR
 - 9 SANTA MARIA RD
 - 10 GUANZO RD
 - 11 TEAK RD
 - 12 PONGIATA ELVD
 - 13 CEDAR CRES
 - 14 MANOJIVY CL
 - 15 LISIANDIA VITAE CL

GREATER PORTMORE

Shopping Centre

Old Port Henderson Ruins

Survey Sheet of Commercial/Industrial/Institutional Sewerage Flows

Survey Date: 09/09/2009

Surveyor: Mr. O. Samuels, Mr. K. Henry

Study Area:	Portmore		Sewerage Flows		
Name	Location	Industrial	Institutional	Commercial	
Christain Pen Health Centre	Gergory Park	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Christian Pen Plaza	Gergory Park	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Oaklaoma Grocery	Gergory Park	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
TWR	Gergory Park	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
NSL Lumber	Gergory Park	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Unipet Gas Station	Gergory Park	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Mel Rose Farm Outlet	Gergory Park	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cedar Crest Plaza	Gergory Park	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Synergy Plaza	Gergory Park	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
New Testement School of Excellence	Gergory Park	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Shell Gas Station	Passage Fort	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Caymanas Track	Passage Fort	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Passage Fort health Centre	Passage Fort	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Survey Sheet of Commercial/Industrial/Institutional Sewerage Flows

Survey Date: 09/09/2009

Surveyor: Mr. O. Samuels, Mr. K. Henry

Study Area:	Portmore		Sewerage Flows		
Name	Location	Industrial	Institutional	Commercial	
Hughes Pharmacy	Passage Fort	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Carlton Plaza	Passage Fort	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
K& M Wholesale	Passage Fort	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Western Mart	Passage Fort	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Waterford Police station	Waterford	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Waterford Fire station	Waterford	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Waterford Branch Library	Waterford	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Parts Plus	Waterford	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-Kad Auto Parts	Waterford	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Hi-Tech Medical Centre	Waterford	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Child Care	Waterford	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Caymanas Track	Waterford	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Passage Fort health Centre	Waterford	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Survey Sheet of Commercial/Industrial/Institutional Sewerage Flows

Survey Date: 09/09/2009

Surveyor: Mr. O. Samuels, Mr. K. Henry

Study Area:	Portmore		Sewerage Flows		
Name	Location	Industrial	Institutional	Commercial	
St. John's College	Waterford	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Southboro Primary	Waterford	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Good Value Wholesale	Waterford	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Orridge Pharmacy	Waterford	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Heart School	Edge Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PCC	Edge Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
LGR Electrical	Edge Water	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Portmore Town Centre	Edge Water	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Portmore Mall	Edge Water	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Palms Plaza	Edge Water	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
NCB	Edge Water	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Churches Credit Union	Edge Water	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Buger King	Edge Water	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Survey Sheet of Commercial/Industrial/Institutional Sewerage Flows

Survey Date: 09/09/2009

Surveyor: Mr. O. Samuels, Mr. K. Henry

Study Area:	Portmore		Sewerage Flows		
Name	Location	Industrial	Institutional	Commercial	
Mc Castle	EdgeWater	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Captain Bakery	EdgeWater	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
McMaster Centre	EdgeWater	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Tastee's	EdgeWater	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sangster's Book Shop	EdgeWater	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Courts	EdgeWater	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
PetCom Gas Station	EdgeWater	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Mega Mart	EdgeWater	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Portmore Day Care Centre	Westport	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Portmore Youth development Centre	Westport	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Bright Spark Learning Centre	Westport	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Portmore Medical Centre	Westport	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cumberland Meat Centre	Cumberland	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Survey Sheet of Commercial/Industrial/Institutional Sewerage Flows

Survey Date: 09/09/2009

Surveyor: Mr. O. Samuels, Mr. K. Henry

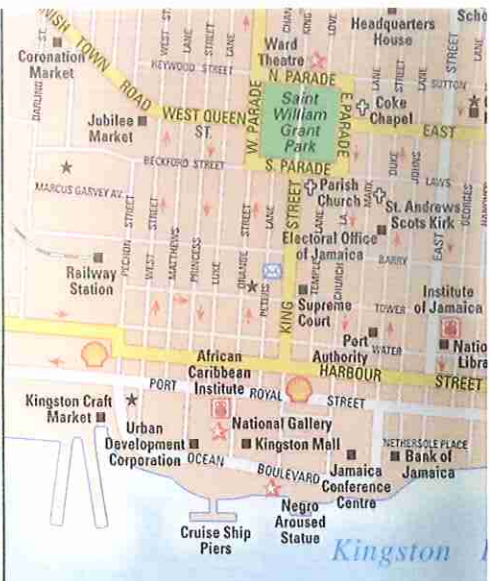
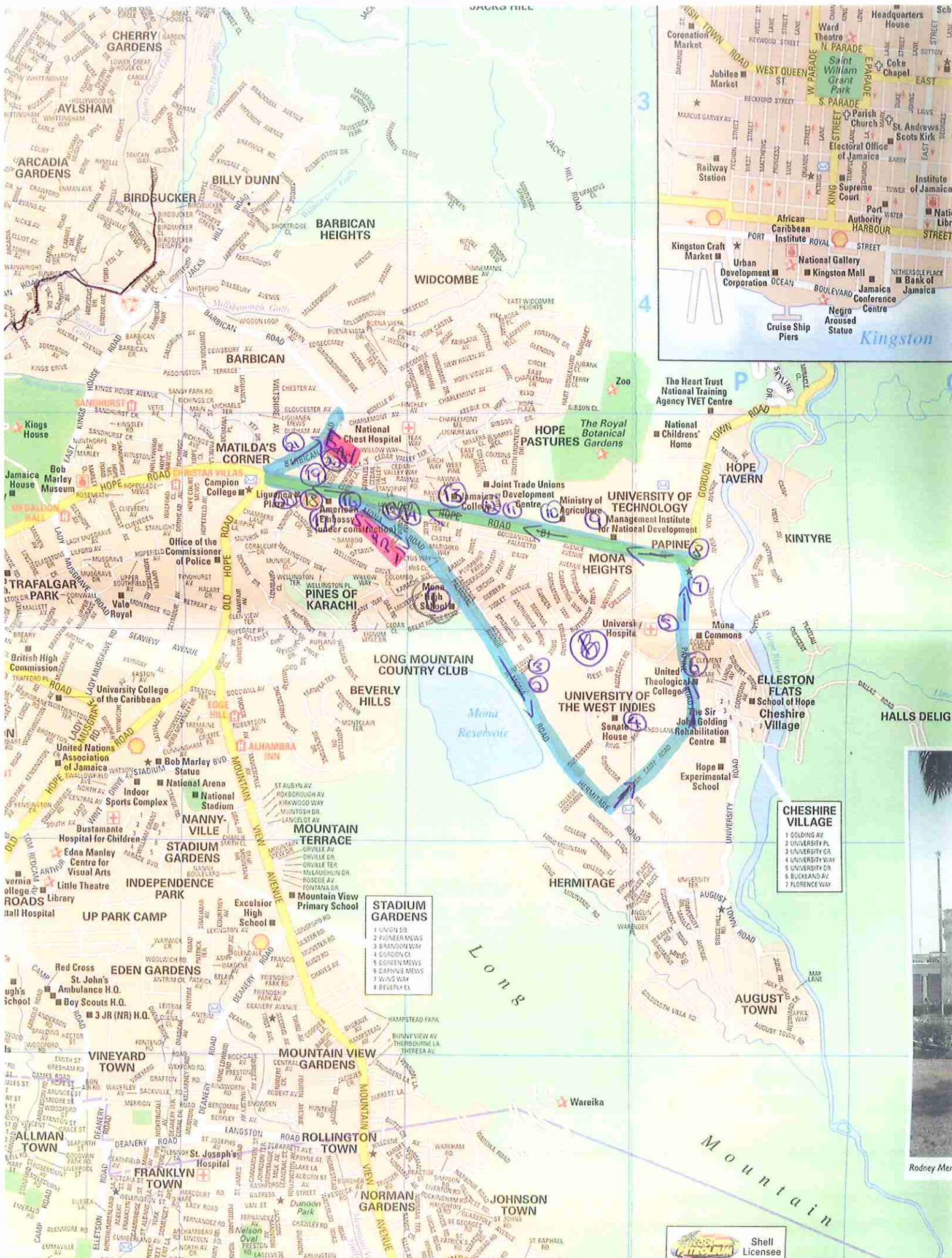
Study Area:	Portmore		Sewerage Flows		
Name	Location	Industrial	Institutional	Commercial	
Green's Grocery	Cumberland	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Westchester Basic School	Cumberland	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PGA Prep	Cumberland	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Smart Kids Basic	Cumberland	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Portmore Central Plaza	Naggo Head	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pearl Medical Centre	Naggo Head	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E-services	Naggo Head	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Portmore Lions Civic Centre	Naggo Head	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Hair Care Institution	Naggo Head	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Kings Medical Centre	Bridgeport	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Bridge port High Shool	Bridgeport	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Portmore Misionary Prep	Bridgeport	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Kenz Plaza	Bridgeport	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Survey Sheet of Commercial/Industrial/Institutional Sewerage Flows

Survey Date: 09/09/2009

Surveyor: Mr. O. Samuels, Mr. K. Henry

Study Area:	Portmore		Sewerage Flows		
Name	Location	Industrial	Institutional	Commercial	
Genius Pharmacy	Bridgeport	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Port henderson Plaza	Port Henderson	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Rapid True Value	Port Henderson	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
PetCom	Port Henderson	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
New City Plaza	Port Henderson	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Portmore Lube Centre	Port Henderson	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C & M Block Factory	Port Henderson	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Good News Plaza	Port Henderson	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Tyre Ware House	Port Henderson	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Shell Gas Station	Port Henderson	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Hill Side Plaza	Port Henderson	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

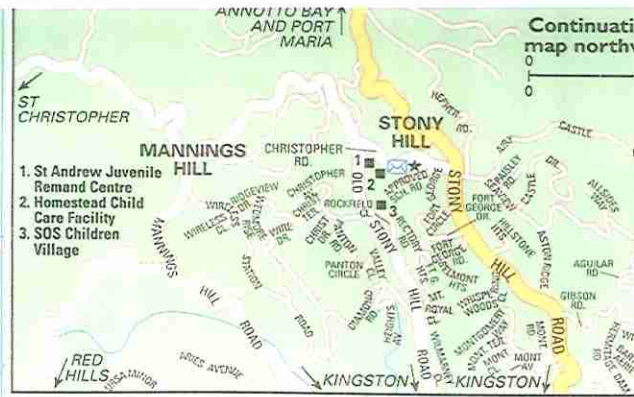


- STADIUM GARDENS**
- 1 UNION SQ
 - 2 PIONEER MEWS
 - 3 BRANDON WAY
 - 4 GORDON CL
 - 5 GREEN MEWS
 - 6 CAPTIVE MEWS
 - 7 WIND WAY
 - 8 BEVERLY CL

- CHESHIRE VILLAGE**
- 1 GOLDING AV
 - 2 UNIVERSITY PL
 - 3 UNIVERSITY CR
 - 4 UNIVERSITY WAY
 - 5 UNIVERSITY DR
 - 6 BUCKLAND AV
 - 7 FLORENCE WAY

Rodney Merr





1. St Andrew Juvenile Remand Centre
2. Homestead Child Care Facility
3. SOS Children Village

Continuation map north

0 1 2

STONY HILL

KINGSTON

KINGSTON

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KINGSTON

Survey Sheet of Commercial/Industrial/Institutional Sewerage Flows

Survey Date: 09/09/2009

Surveyor: Mr. O. Samuels, Mr. K. Henry

Study Area:	KSA.....1	Sewerage Flows		
Name	Location	Industrial	Institutional	Commercial
Mona High School	Mona	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Total Gas Station	Mona	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mona Driving School	Mona	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
University of the West Indies	Mona	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
University of the West Indies Hospital	Mona	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
St. Micheal Theology School	Mona	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Papine Plaza	Papine	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Supermarket	Papine	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Papine Comercial Complex	Papine	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
University Of Technology	Hope Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ministry of Agriculture	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SRC	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mona Prep. School	Hope Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Survey Sheet of Commercial/Industrial/Institutional Sewerage Flows

Survey Date: 09/09/2009

Surveyor: Mr. O. Samuels, Mr. K. Henry

Study Area:	KSA.....1	Sewerage Flows		
Name	Location	Industrial	Institutional	Commercial
Shady Grove Basic	Hope Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
JPS Substation	Hope Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RBC (Royal Botanical Gardens)	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rural Planning	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Jamaica College	Hope Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chinese Benevolent Association	Hope Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
KFC	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Watts New	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ShoppErs Fair Super Market	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Waterfalls Night Club	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
American Embassy	Hope Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liguane Laundromat	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
North Side Plaza	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Survey Sheet of Commercial/Industrial/Institutional Sewerage Flows

Survey Date: 09/09/2009

Surveyor: Mr. O. Samuels, Mr. K. Henry

Study Area:	KSA.....1	Sewerage Flows		
Name	Location	Industrial	Institutional	Commercial
Shell Gas Station	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
FCB (First Caribbean Bank)	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SCOTIA BANK	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Liguanea Plaza	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Soveriegn Centre	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Courts Shopping Centre	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Burger King	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Orchid Village	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sandhusrt Basic School	Barbican	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Texaco	Barbican	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HILO Super Market	Barbican	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Meat Mart	Barbican	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Barbican Centre	Barbican	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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Study Area:	KSA.....1	Sewerage Flows		
Name	Location	Industrial	Institutional	Commercial
Irea Hardware	Barbican	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
AZ Mart	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bell's Pharmacy	Hope Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Texaco	Mannings Hill Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Isreal Used Car dealers & Services	Mannings Hill Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rockwell Trucking Services	Mannings Hill Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bakery	Mannings Hill Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Quest Prep School	Mannings Hill Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mannings Hill Plaza	Mannings Hill Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mannings Hill Pharmacy	Mannings Hill Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Whitehall Park Centre	Mannings Hill Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Midway mall	Mannings Hill Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Havendale Basic School	Mannings Hill Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Study Area:	KSA.....1		Sewerage Flows		
Name	Location	Industrial	Institutional	Commercial	
Super Value	Mannings Hill Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Shell Gas Station	Mannings Hill Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Family Pride Mall	Mannings Hill Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
City Island Seafood	Mannings Hill Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Price rite Super Market	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Post office	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Shell Gas Station	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Total Gas Station	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Meadow Vale Basic School	Redhills Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Meadow Brook Church of Christ Basic	Redhills Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Meadow Brook High School	Redhills Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Bakers delight	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Meadow Brook Pharmacy	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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Study Area:	KSA.....1		Sewerage Flows		
Name	Location	Industrial	Institutional	Commercial	
Price Mart	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Red Hills Road Plaza	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Family Pride Mall	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Jack & Jill Wholesale	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Roberts Wholesale	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Whilby's Hardware	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Red Hills Pub	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Turn Table Plaza	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
St. Richards Primary School	Redhills Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
KFC	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sunrise Plaza	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Nu-Look Dry Cleaners	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sunrise Supermarket	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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Study Area:	KSA.....1	Sewerage Flows		
Name	Location	Industrial	Institutional	Commercial
Access Medical	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sudines Hardware	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Merrick Highway Plaza	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Red Hills Mall	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lloyds Hardware	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Real Deal Wholesale	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Patrice salon	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bowlers Garage	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
St. Patricks Plaza	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Main Plaza	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Duco Mix	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Debco Cleaners	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Big Taste Food	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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Study Area:	KSA.....1		Sewerage Flows		
Name	Location	Industrial	Institutional	Commercial	
Galaxy Leisure Tour	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3 View Pharmacy	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3 View Texaco	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Burger King	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Lees Food Fair	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
petes Complex	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
lee Mason Funeral Home	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Logic one Cable Company	Redhills Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Dina's Truck Parts and Serv	Whitehall	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Norma's Resturant	Whitehall	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Swallow Field Allage School	Whitehall	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Bowings Tailoring	Whitehall	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Lushan Beauty Salon	Washinton Blvd	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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Study Area:	KSA.....1		Sewerage Flows		
Name	Location	Industrial	Institutional	Commercial	
Total Gas Station	Washington Blvd	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Boulevard Super Center	Washington Blvd	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Diary Industry	Washington Blvd	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
JPSCo. Ltd	Washington Blvd	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pembroke Hall High	Washington Blvd	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Total Hardware	Washington Blvd	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pembroke Hall Plaza	Washington Blvd	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pembroke Hall Community Centre	Washington Blvd	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
New Dawn Learning Centre	Washington Blvd	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pembroke Hall Square Plaza	Washington Blvd	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Hughen Plaza	Washington Blvd	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Hughenden Park Plaza	Washington Blvd	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pete's Bakery	Washington Blvd	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	