

JETCLEAN AMERICA

HIGH PRESSURE WATER JETTING
EXPLOSION-PROOF VIDEO-INSPECTION
NO DIG POINT REPAIRS
VACUUM TRUCK SERVICES

OFFICES IN FLORIDA & CAROLINAS
TEL: 800-226-8013
FAX 813-926-4616

JOHNSTON COUNTY LANDFILL 2009 LEACHATE COLLECTION SYSTEM MAINTENANCE

Work Conducted:

July 2009

By Jetclean America

800-226-8013

JETCLEAN AMERICA

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VIDEO PIPELINE INSPECTION
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REPORT

DATE : 8/10/2009
TO : Rick Proctor – Johnston County Solid Waste
FROM : Ralph Calistri (jetcleanamerica@tampabay.rr.com)
SUBJECT : Johnston County Landfill – 2009 LCS Maintenance

Jetclean America completed the high-pressure water-jetting and explosion-proof video-inspection of the existing leachate collection system piping on 7/9/2009. Please find the attached jetting log, CCTV survey listing, pipe graphic reports, and DVD inspection footage for your reference.

High-pressure Water-jetting:

As the below jetting log indicates, the existing leachate collection piping was jetcleaned as far as possible utilizing a high-pressure water-jetting nozzle. The areas of the system that were accessed were clean and blockage free upon completion.

JOHNSTON COUNTY LANDFILL 2009 LEACHATE COLLECTION SYSTEM JETTING LOG JETTING PERFORMED BY JETCLEAN AMERICA JULY 2009

<u>LOCATION</u>	<u>ACHIEVED DISTANCE (ft)</u>
C-D Cell Cleanout 1	945'
C-D Cell Cleanout 2	217'
C-D Cell Cleanout 3	278'
C-D Cell Cleanout 4	410'
C-D Cell Cleanout 5	355'
C-D Cell Cleanout 6	577'
C-D Cell Cleanout 7	625'
Phase 4 - Cell 1 – 1 North	175'
Phase 4 - Cell 1 - 2 North	455'
Phase 4 - Cell 1 - 3 North	246'
Phase 4 - Cell 1 - 1 South	690'
Phase 4 – Cell 1 – 2 South	415'
Phase 4 – Cell 1 – 3 South	410'
Phase 4 – Cell 2 – 1 North	275'
Phase 4 – Cell 2 – 2 North	425'
Phase 5 - 1	600'
Phase 5 - 2	600'
Phase 5 – 3	400'

Phase 5 – 4	175'
Phase 5 – 5	285'
Phase 5 – 6	325'
Phase 5 – 7	275'
Main Header	900'
Sump LC-1	53'
Sump LC-2	52'
Sump LD-1	53'
Sump LD-2	50'
Sump LD-3	51'

Explosion-proof Video-inspection:

After jetcleaning was completed, the above piping was video-inspected as far as was possible utilizing explosion-proof video-inspection equipment (see attached survey list, pipe graphic reports, and DVD's for more detailed information). Other than some minor pipe sags that caused the pipes to hold water in some areas (common in this type of installation), no specific defects were identified. In any cases where the full length of the surveyed pipe is not inspected, the fact that the high-pressure jetting nozzle was not restricted in any way would support the contention that the leachate collection system is in good working order.

Please call us with questions or concerns.

Regards,



Ralph Calistri – Jetclean America

CCTV Surveys List for Johnston County

Number of surveys in this list is 21 as of Monday, July 13, 2009

Unit of measure: ft

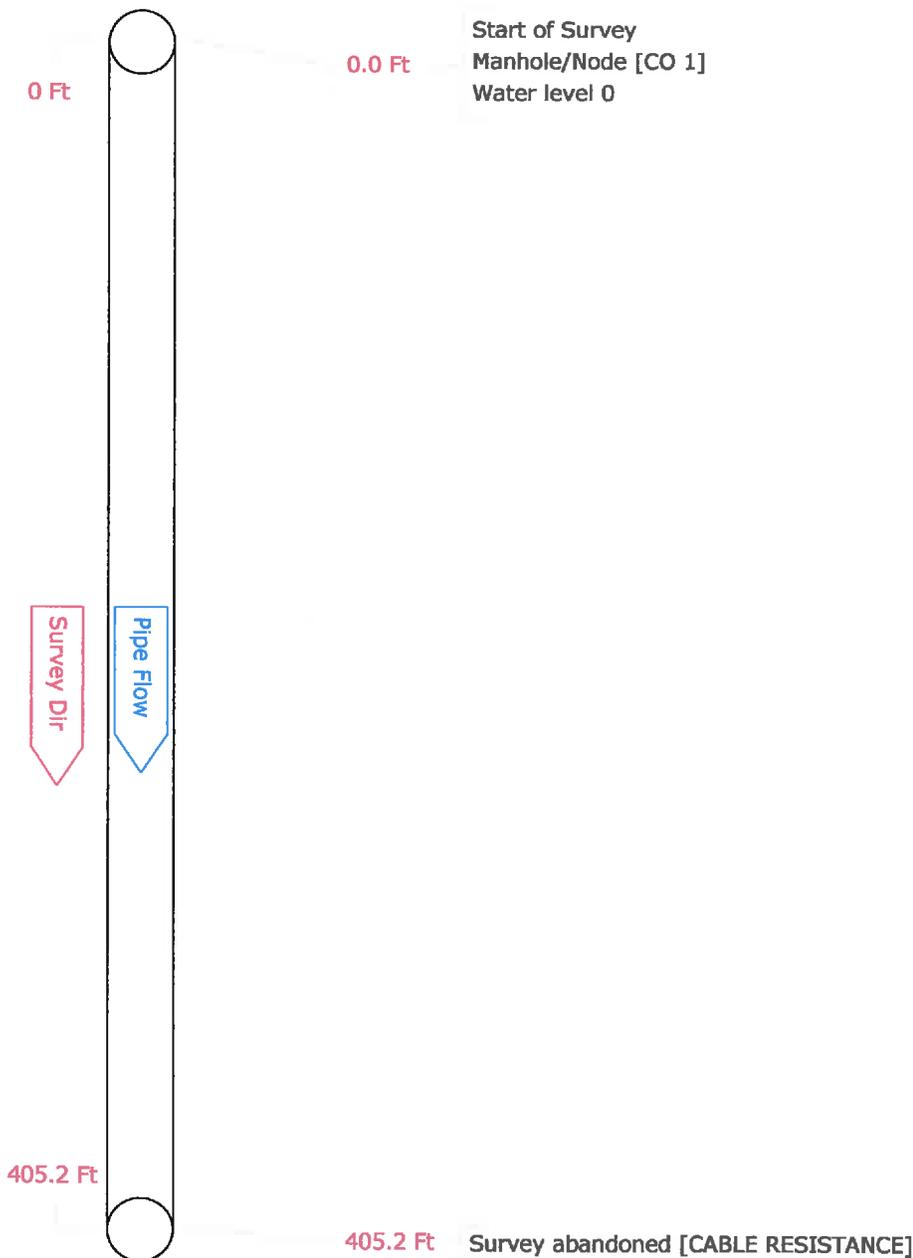
Setup Date	Street	Start MH	Finish MH	Dir	Size inch	Pre Clean	Vid Cassette	Scheduled Length	Surveyed Length
1	7/7/2009	Johnston County Landfill	CO 1 C-D	D	6	Y	1		405.2
2	7/7/2009	Johnston County Landfill	CO 2 C-D	D	6	Y	1		216.3
3	7/7/2009	Johnston County Landfill	CO 3 C-D	D	6	Y	1		277.9
4	7/7/2009	Johnston County Landfill	CO 4 C-D	D	6	Y	1		391.0
5	7/7/2009	Johnston County Landfill	CO 5 C-D	D	6	Y	1		355.7
6	7/7/2009	Johnston County Landfill	CO 6 C-D	D	6	Y	1		433.4
7	7/7/2009	Johnston County Landfill	CO 7 C-D	D	6	Y	1		311.3
8	7/7/2009	Johnston County Landfill	CO 1 NORTH	U	6	Y	1		173.1
9	7/7/2009	Johnston County Landfill	CO 2 NORTH	U	6	Y	1		274.4
10	7/7/2009	Johnston County Landfill	CO 3 NORTH	D	6	Y	1		248.5
11	7/7/2009	Johnston County Landfill	CO 1 SOUTH	D	6	Y	1		273.3
12	7/7/2009	Johnston County Landfill	CO 3 SOUTH	D	6	Y	1		316.4
13	7/7/2009	Johnston County Landfill	CO 3 SOUTH	D	6	Y	1		253.0
14	7/7/2009	Johnston County Landfill	CO 1 SE	D	6	Y	1		333.0
15	7/7/2009	Johnston County Landfill	CO 2 EAST	D	6	Y	1		285.5
16	7/7/2009	Johnston County Landfill	CO 3 EAST	D	6	Y	1		306.0
17	7/7/2009	Johnston County Landfill	CO 4 SW	D	6	Y	1		236.6
18	7/7/2009	Johnston County Landfill	MAIN HEADER	D	6	Y	1		338.3
19	7/7/2009	Johnston County Landfill	CO 5 WEST	D	6	Y	1		71.1
20	7/7/2009	Johnston County Landfill	CO 6 WEST	D	6	Y	1		70.5
21	7/7/2009	Johnston County Landfill	CO 7 WEST	D	6	Y	1		75.5

Total Scheduled Length 0.0

Total Length Surveyed 5,646.0

Pipe Graphic Report of PLR CO 1 C-D X for Johnston County

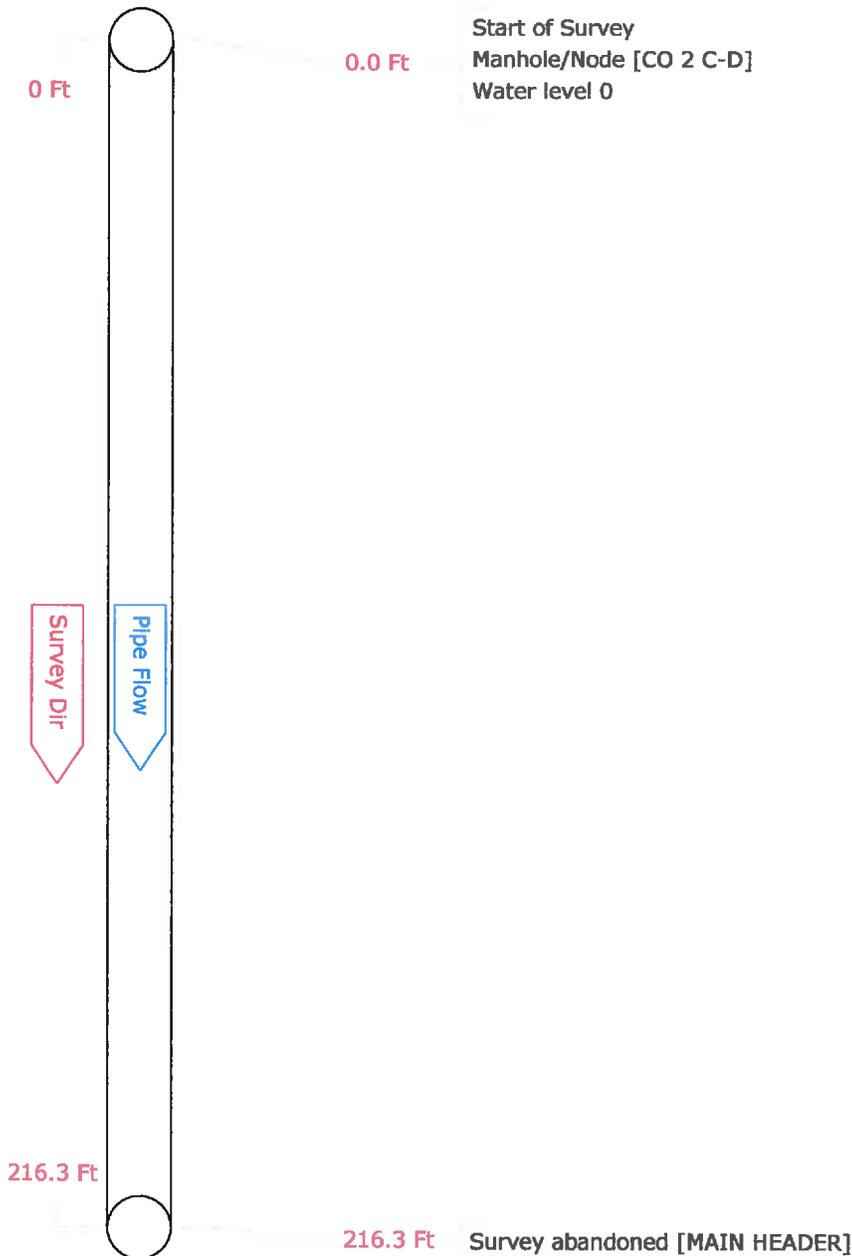
Work Order	Contract	Video 1	Setup 1
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface			
Survey purpose	Random survey of pipes and things	Weather	Dry
Pipe Use LEACHATE	Schedule length Ft	From CO 1 C-D	Depth Ft
Shape Circular	Size 6 by ins	To CO 1A C-D	Depth Ft
Material hdpe	Joint spacing Ft	Direction	Downstream
Lining	Year laid	Pre-clean Y	Last cleaned 7/7/2009
General note			
Location note C-D Landfill			



Pipe Graphic Report of PLR CO 2 C-D X

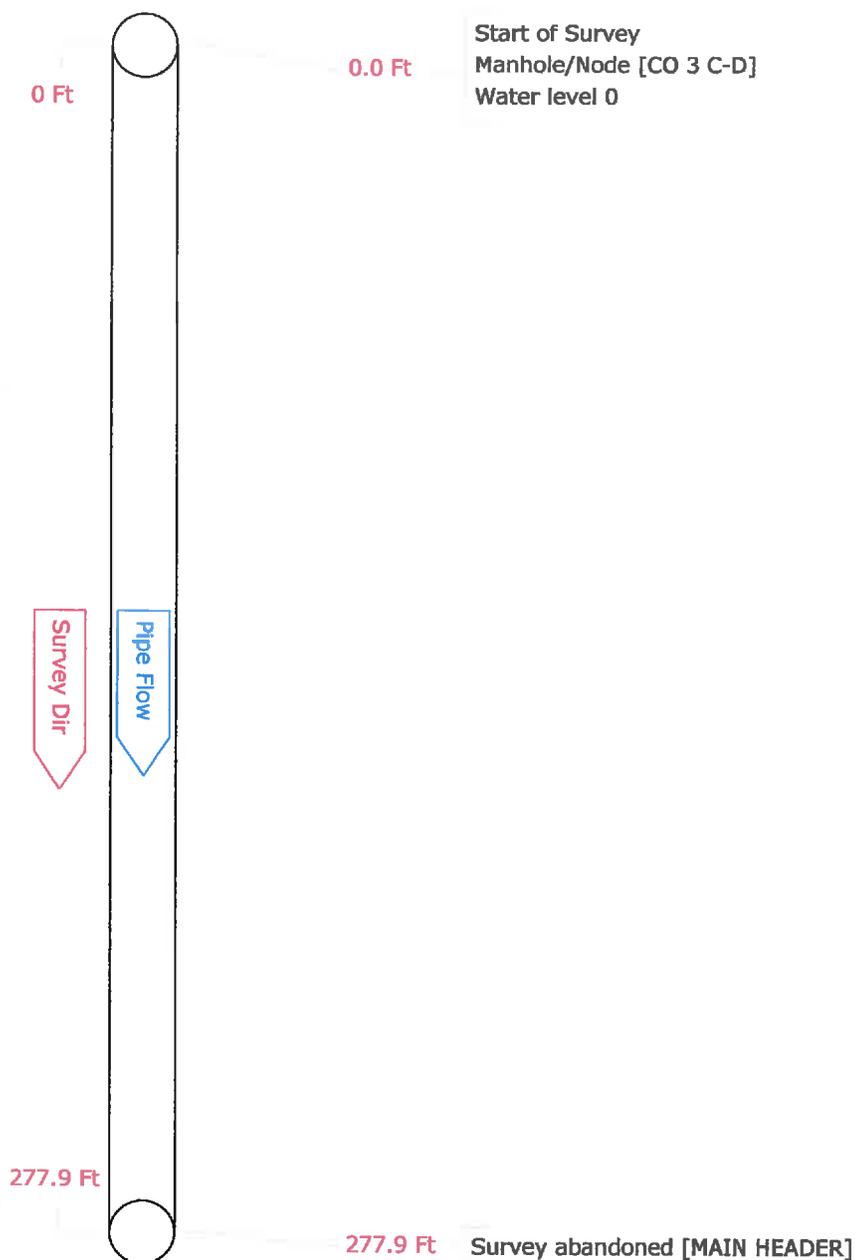
for Johnston County

Work Order	Contract	Video 1	Setup 2
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface			
Survey purpose	Random survey of pipes and things	Weather	Dry
Pipe Use	LEACHATE	Schedule length	Ft
Shape	Circular	Size 6 by	ins
Material	hdpe	Joint spacing	Ft
Lining		Year laid	
		From CO 2 C-D	Depth Ft
		To CO 2A C-D	Depth Ft
		Direction	Downstream
		Pre-clean Y	Last cleaned 7/7/2009
General note			
Location note C-D Landfill			



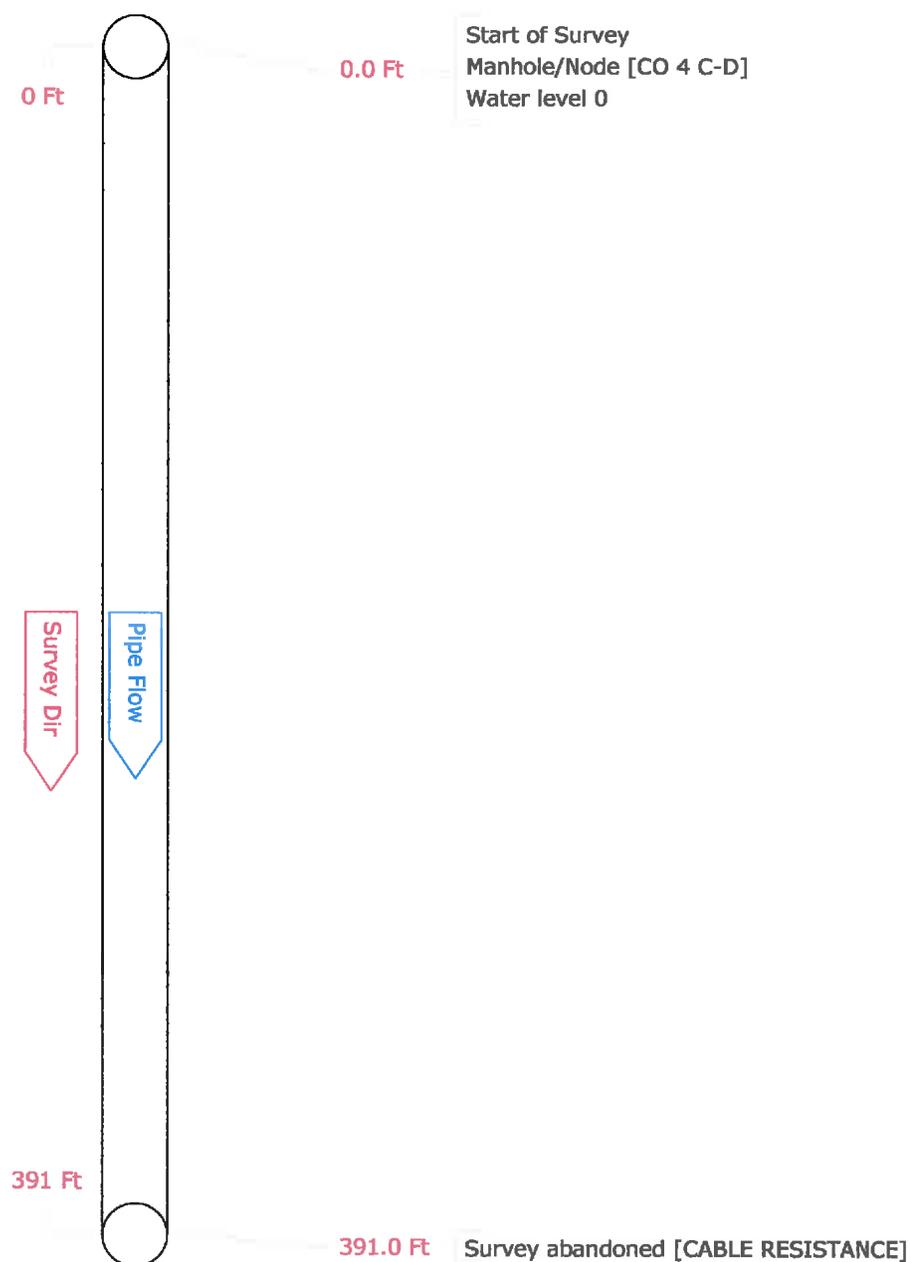
Pipe Graphic Report of PLR CO 3 C-D X for Johnston County

Work Order	Contract	Video 1	Setup 3
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface			
Survey purpose	Random survey of pipes and things	Weather	Dry
Pipe Use LEACHATE	Schedule length Ft	From CO 3 C-D	Depth Ft
Shape Circular	Size 6 by ins	To CO 3A C-D	Depth Ft
Material hdpe	Joint spacing Ft	Direction	Downstream
Lining	Year laid	Pre-clean Y	Last cleaned 7/7/2009
General note			
Location note C-D Landfill			



Pipe Graphic Report of PLR CO 4 C-D X for Johnston County

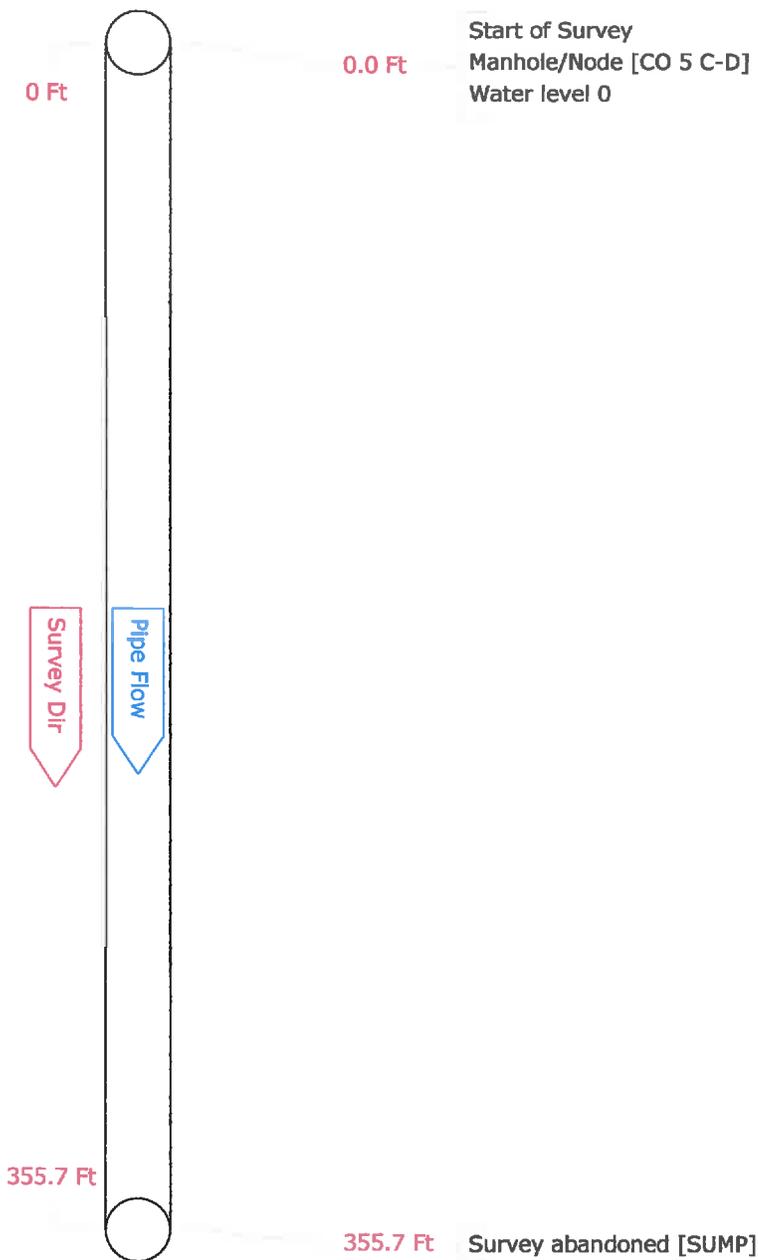
Work Order	Contract	Video 1	Setup 4
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface			
Survey purpose	Random survey of pipes and things	Weather	Dry
Pipe Use LEACHATE	Schedule length Ft	From CO 4 C-D	Depth Ft
Shape Circular	Size 6 by ins	To CO 4A C-D	Depth Ft
Material hdpe	Joint spacing Ft	Direction	Downstream
Lining	Year laid	Pre-clean Y	Last cleaned 7/7/2009
General note			
Location note C-D Landfill			



Pipe Graphic Report of PLR CO 5 C-D X

for Johnston County

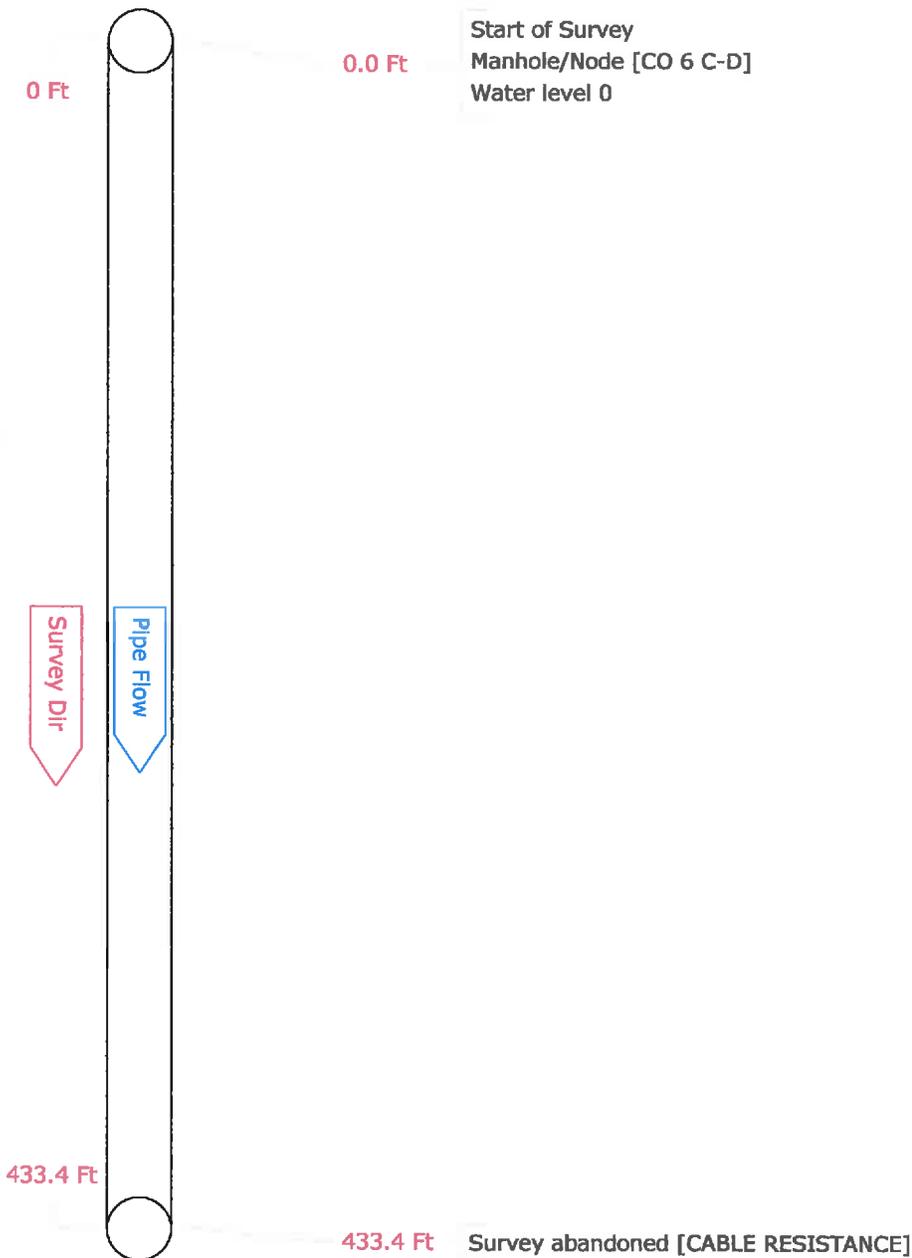
Work Order	Contract	Video 1	Setup 5
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface			
Survey purpose	Random survey of pipes and things	Weather Dry	
Pipe Use	LEACHATE	Schedule length	Ft
Shape	Circular	Size 6 by	ins
Material	hdpe	Joint spacing	Ft
Lining		Year laid	
		From CO 5 C-D	Depth Ft
		To CO 5A C-D	Depth Ft
		Direction Downstream	
		Pre-clean Y	Last cleaned 7/7/2009
General note			
Location note C-D Landfill			



Pipe Graphic Report of PLR CO 6 C-D X

for Johnston County

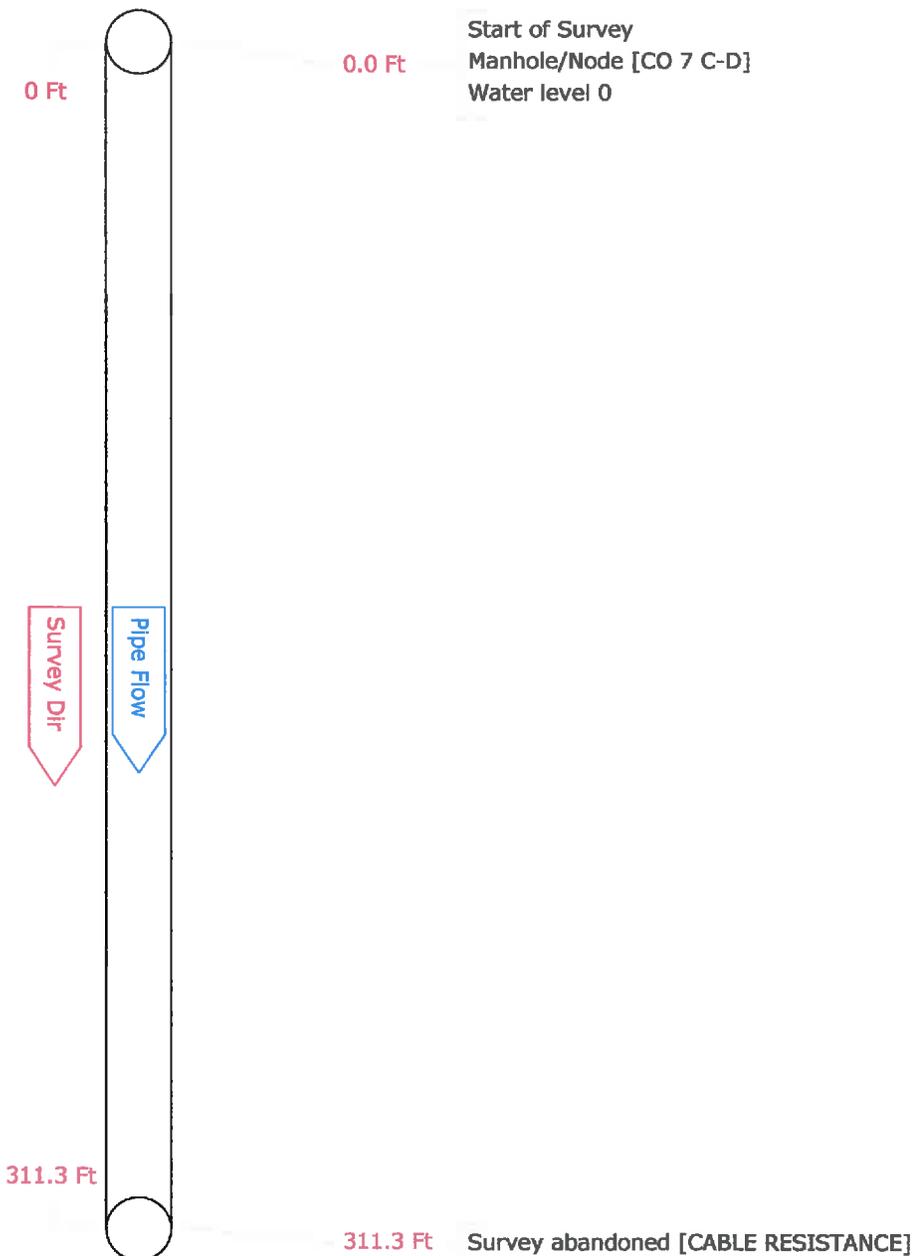
Work Order	Contract	Video 1	Setup 6
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface			
Survey purpose	Random survey of pipes and things	Weather	Dry
Pipe Use	LEACHATE	Schedule length	Ft
Shape	Circular	Size 6 by	ins
Material	hdpe	Joint spacing	Ft
Lining		Year laid	
		From CO 6 C-D	Depth Ft
		To CO 6A C-D	Depth Ft
		Direction	Downstream
		Pre-clean Y	Last cleaned
General note			
Location note C-D Landfill			



Pipe Graphic Report of PLR CO 7 C-D X

for Johnston County

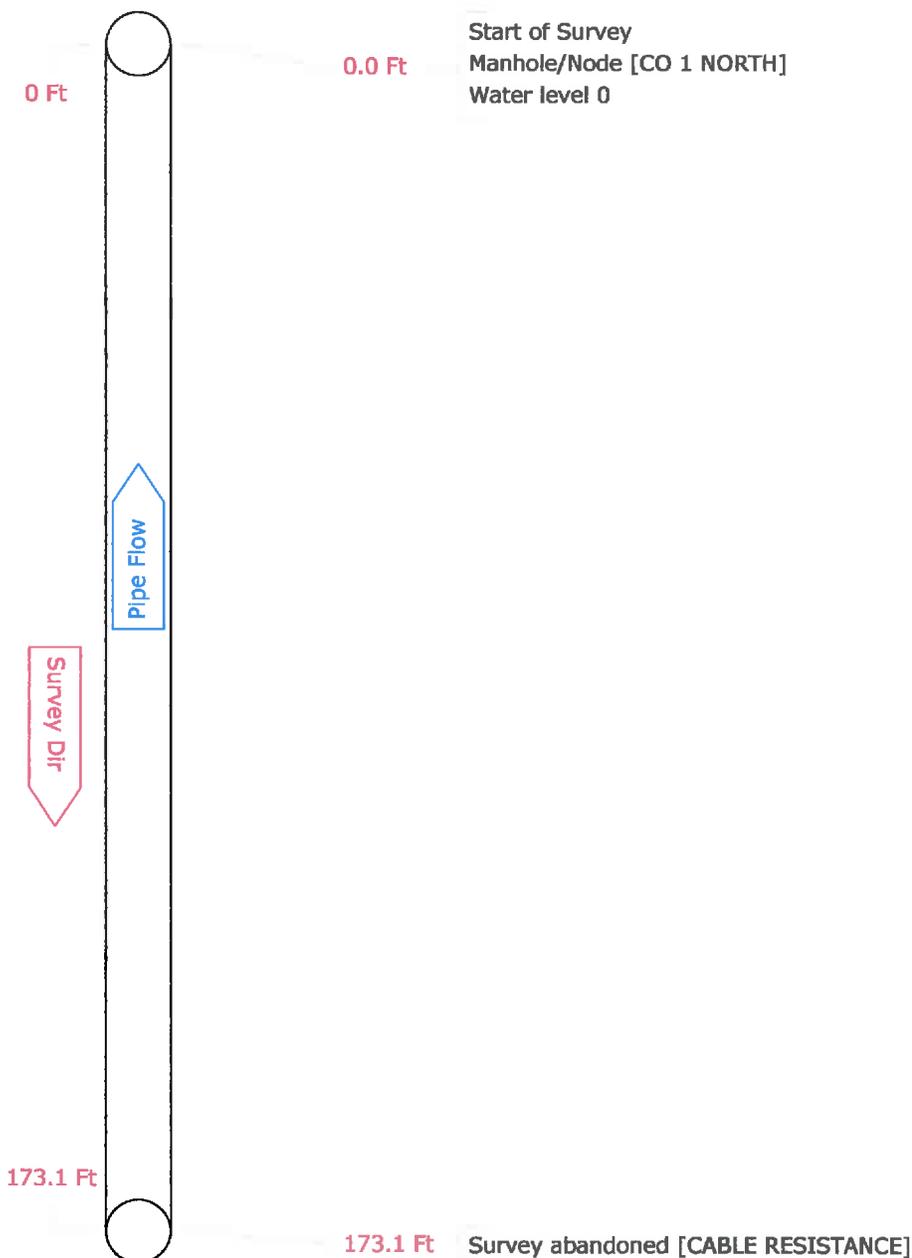
Work Order	Contract	Video 1	Setup 7
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface			
Survey purpose	Random survey of pipes and things	Weather Dry	
Pipe Use LEACHATE	Schedule length Ft	From CO 7 C-D	Depth Ft
Shape Circular	Size 6 by ins	To CO 7A C-D	Depth Ft
Material hdpe	Joint spacing Ft	Direction Downstream	
Lining	Year laid	Pre-clean Y	Last cleaned 7/7/2009
General note			
Location note C-D Landfill			



Pipe Graphic Report of PLR CO 1A NORTH X

for Johnston County

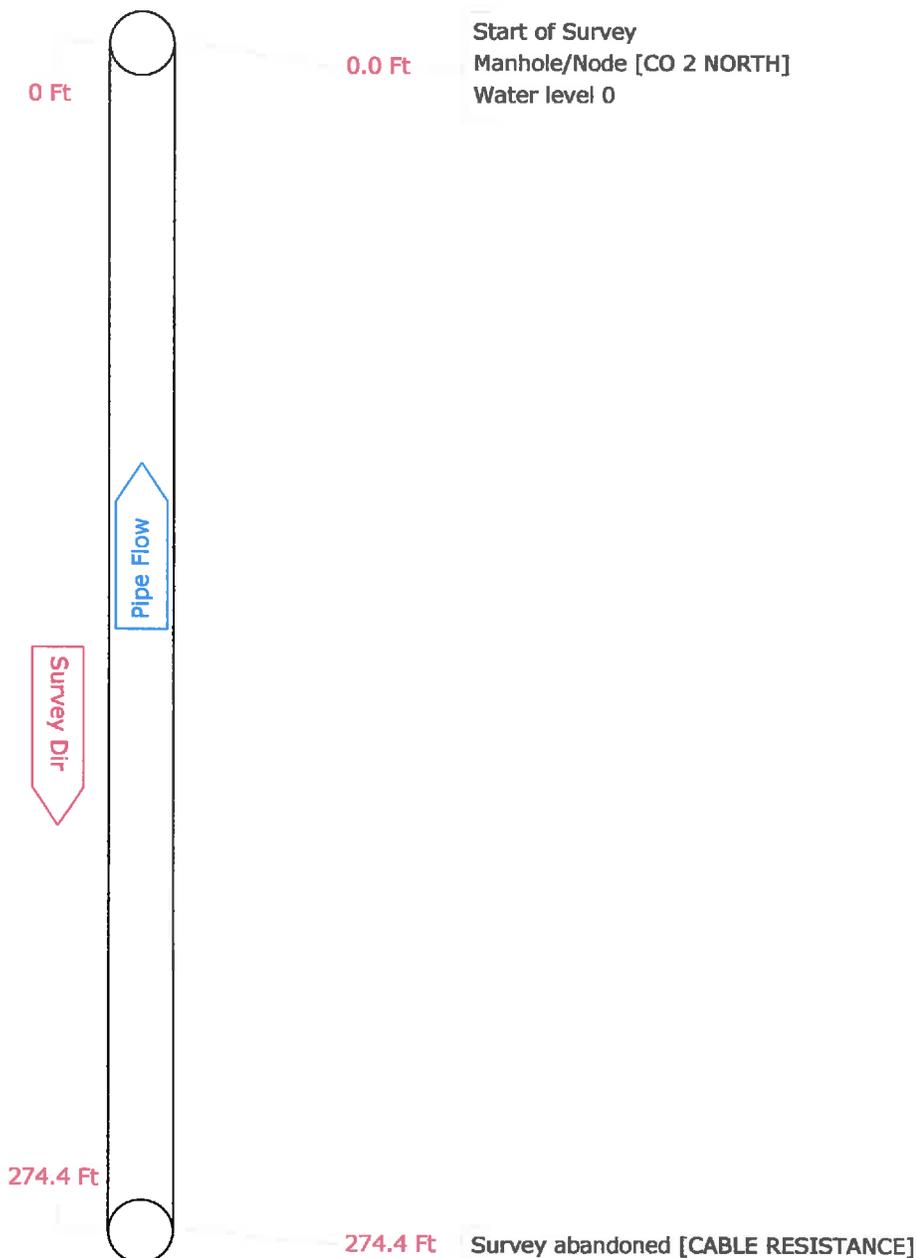
Work Order	Contract	Video 1	Setup 8
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface		Weather Dry	
Survey purpose	Random survey of pipes and things		
Pipe Use LEACHATE	Schedule length Ft	From CO 1 NORTH	Depth Ft
Shape Circular	Size 6 by ins	To CO 1A NORTH	Depth Ft
Material hdpe	Joint spacing Ft	Direction Upstream	
Lining	Year laid	Pre-clean Y	Last cleaned 7/7/2009
General note			
Location note Phase 4 Cell 1			



Pipe Graphic Report of PLR CO 2A NORTH X

for Johnston County

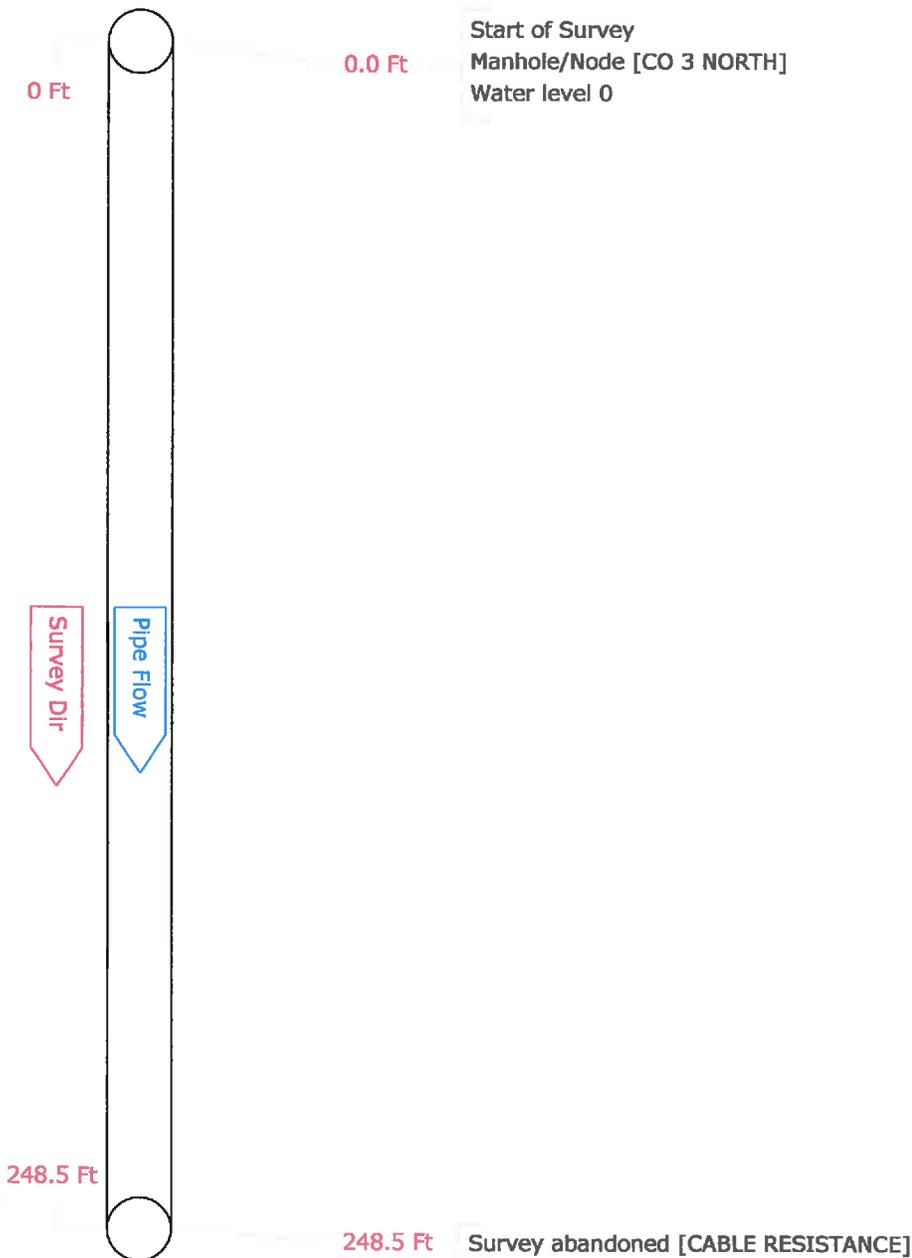
Work Order	Contract	Video 1	Setup 9
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface			
Survey purpose	Random survey of pipes and things	Weather	Dry
Pipe Use LEACHATE	Schedule length Ft	From CO 2 NORTH	Depth Ft
Shape Circular	Size 6 by ins	To CO 2A NORTH	Depth Ft
Material hdpe	Joint spacing Ft	Direction	Upstream
Lining	Year laid	Pre-clean Y	Last cleaned 7/7/2009
General note			
Location note Phase 4 Cell 1			



Pipe Graphic Report of PLR CO 3 NORTH X

for Johnston County

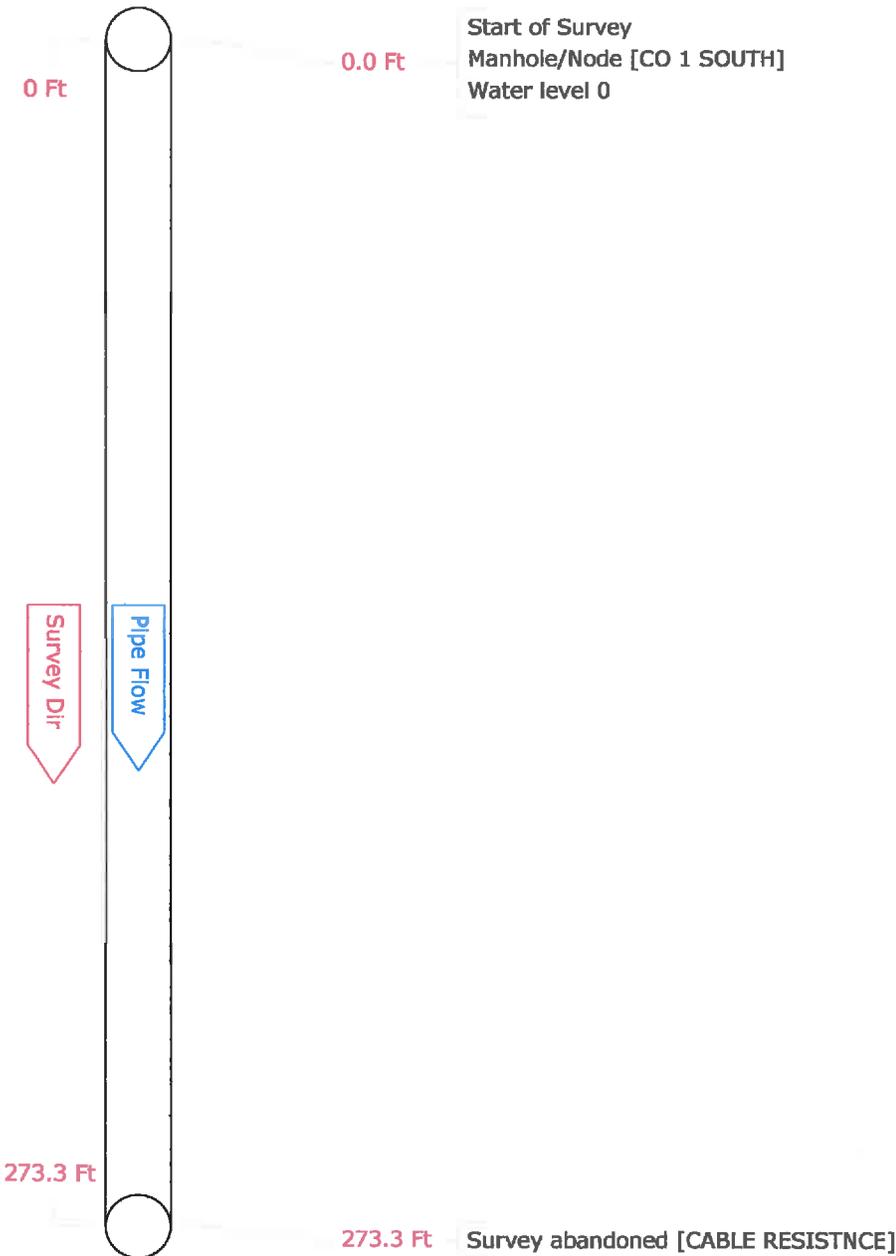
Work Order	Contract	Video 1	Setup 10
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface		Weather Dry	
Survey purpose	Random survey of pipes and things		
Pipe Use LEACHATE	Schedule length Ft	From CO 3 NORTH	Depth Ft
Shape Circular	Size 6 by ins	To CO 3A NORTH	Depth Ft
Material hdpe	Joint spacing Ft	Direction Downstream	
Lining	Year laid	Pre-clean Y	Last cleaned 7/7/2009
General note			
Location note Phase 4 Cell 1			



Pipe Graphic Report of PLR CO 1 SOUTH X

for Johnston County

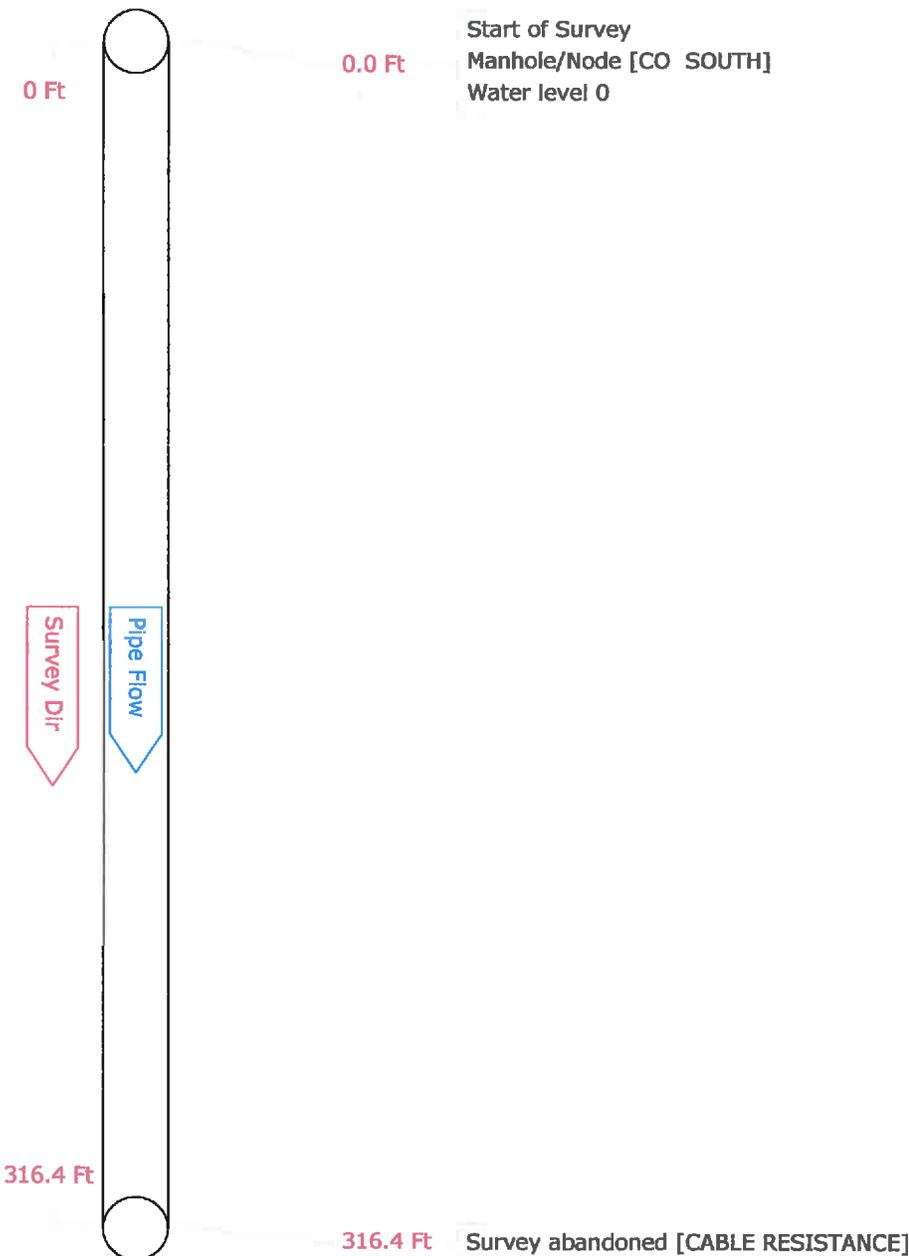
Work Order	Contract	Video 1	Setup 11
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface			
Survey purpose	Random survey of pipes and things	Weather Dry	
Pipe Use	LEACHATE	Schedule length	Ft
Shape	Circular	Size 6 by	ins
Material	hdpe	Joint spacing	Ft
Lining		Year laid	
		From CO 1 SOUTH	Depth Ft
		To CO 1A SOUTH	Depth Ft
		Direction	Downstream
		Pre-clean Y	Last cleaned 7/7/2009
General note			
Location note Phase 4 Cell 1			



Pipe Graphic Report of PLR CO 2 SOUTH X

for Johnston County

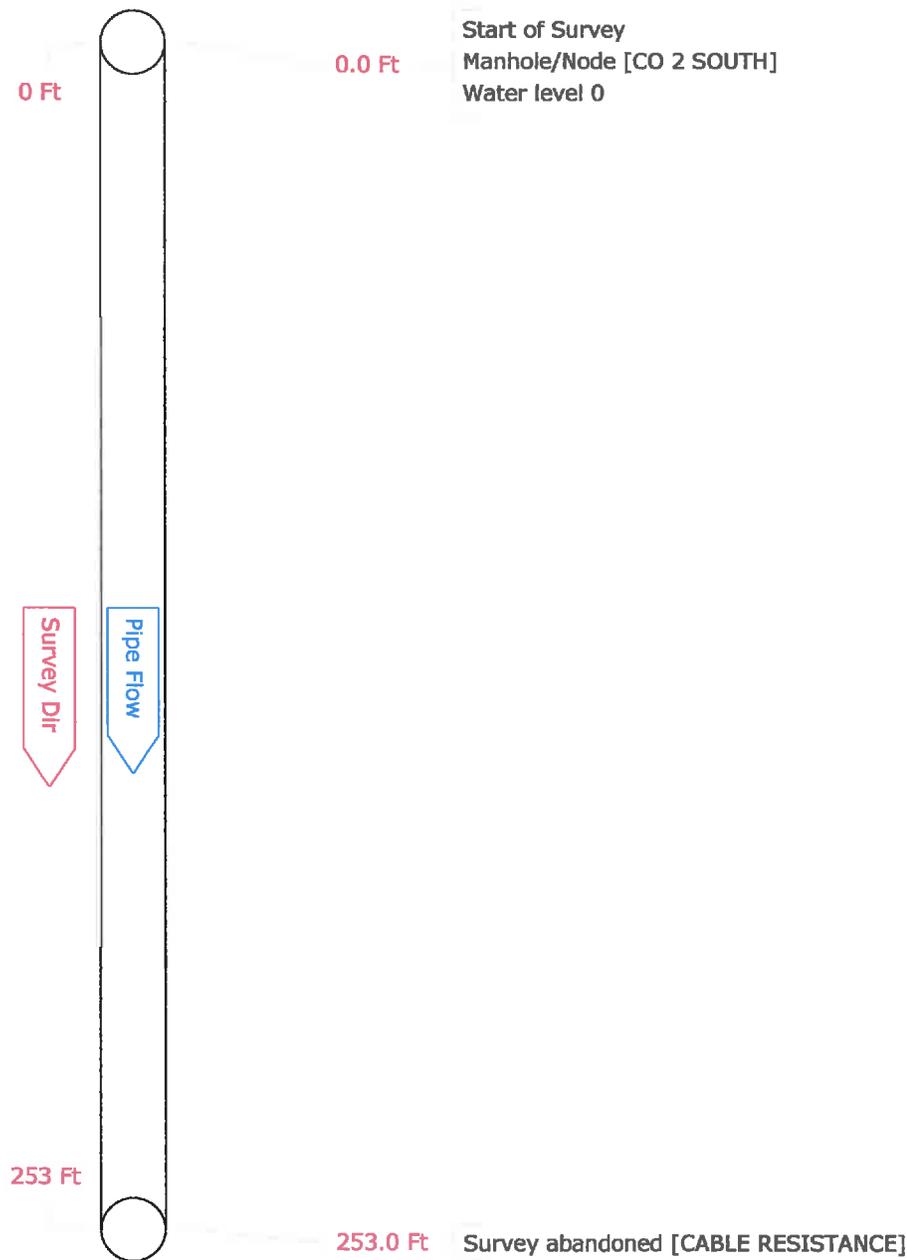
Work Order	Contract	Video 1	Setup 12
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface			
Survey purpose	Random survey of pipes and things	Weather	Dry
Pipe Use	LEACHATE	Schedule length	Ft
Shape	Circular	Size 6 by	ins
Material	hdpe	Joint spacing	Ft
Lining		Year laid	
		From CO 2 SOUTH	Depth Ft
		To CO 2A SOUTH	Depth Ft
		Direction	Downstream
		Pre-clean Y	Last cleaned
General note			
Location note Phase 4a Cell 1			



Pipe Graphic Report of PLR CO 3 SOUTH X

for Johnston County

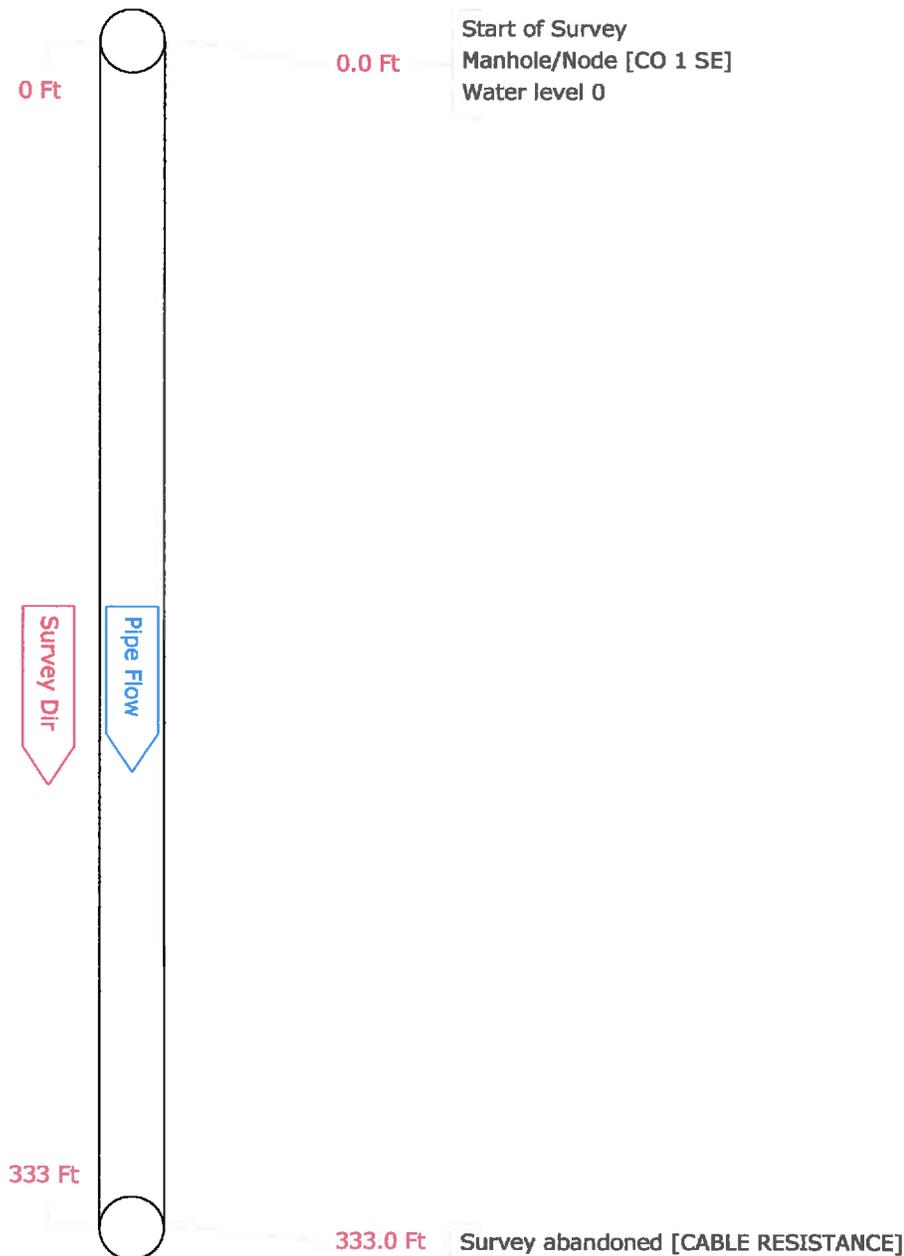
Work Order	Contract	Video 1	Setup 13
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface			
Survey purpose	Random survey of pipes and things	Weather Dry	
Pipe Use LEACHATE	Schedule length Ft	From CO 3 SOUTH	Depth Ft
Shape Circular	Size 6 by ins	To CO 3A SOUTH	Depth Ft
Material hdpe	Joint spacing Ft	Direction Downstream	
Lining	Year laid	Pre-clean Y	Last cleaned
General note			
Location note Phase 4a Cell 1			



Pipe Graphic Report of PLR CO 1 SE T

for Johnston County

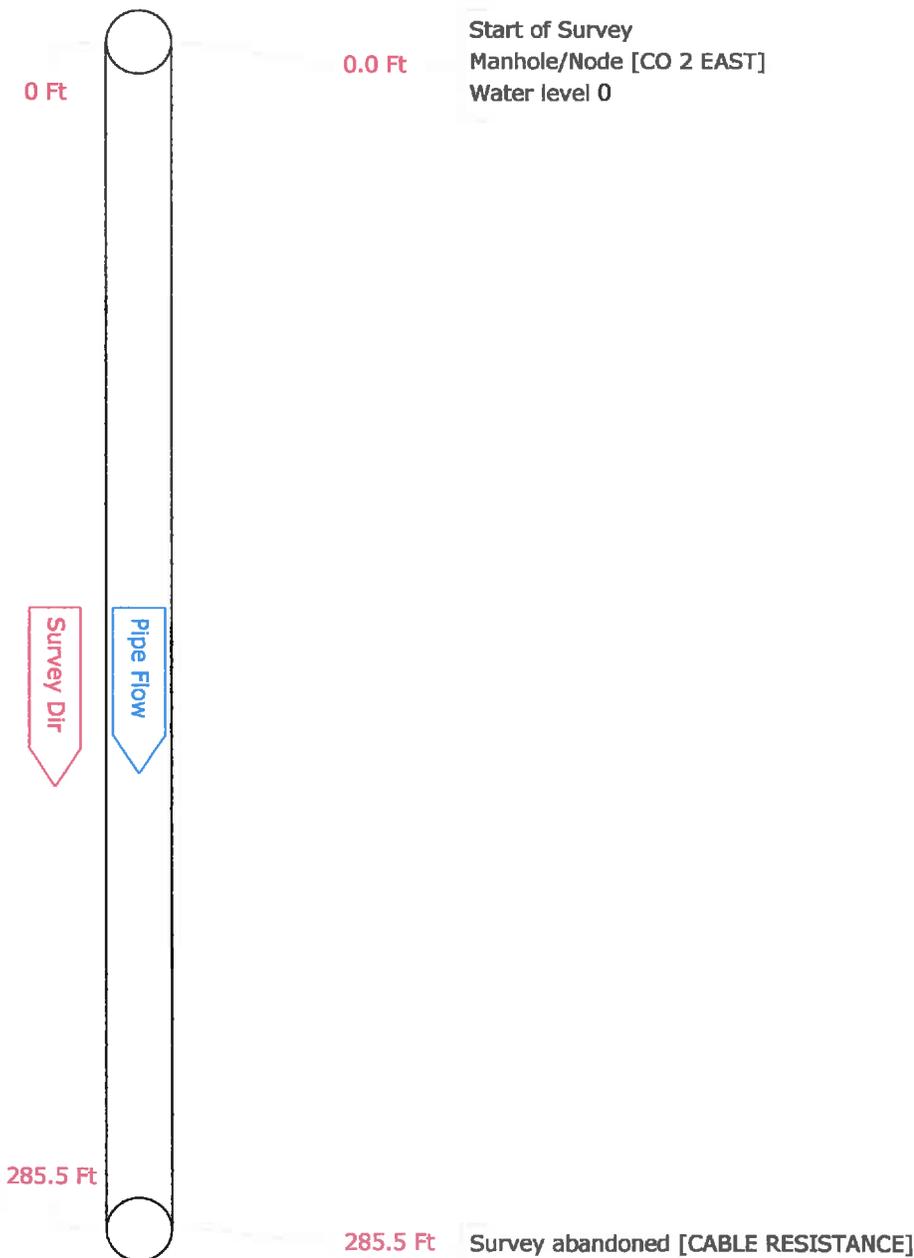
Work Order	Contract	Video 1	Setup 14
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface			
Survey purpose	Random survey of pipes and things	Weather	Dry
Pipe Use	LEACHATE	Schedule length	Ft
Shape	Circular	Size 6 by	ins
Material	hdpe	Joint spacing	Ft
Lining		Year laid	
		From CO 1 SE	Depth Ft
		To CO 1A SE	Depth Ft
		Direction	Downstream
		Pre-clean Y	Last cleaned
General note			
Location note Phase 5			



Pipe Graphic Report of PLR CO 2 EAST T

for Johnston County

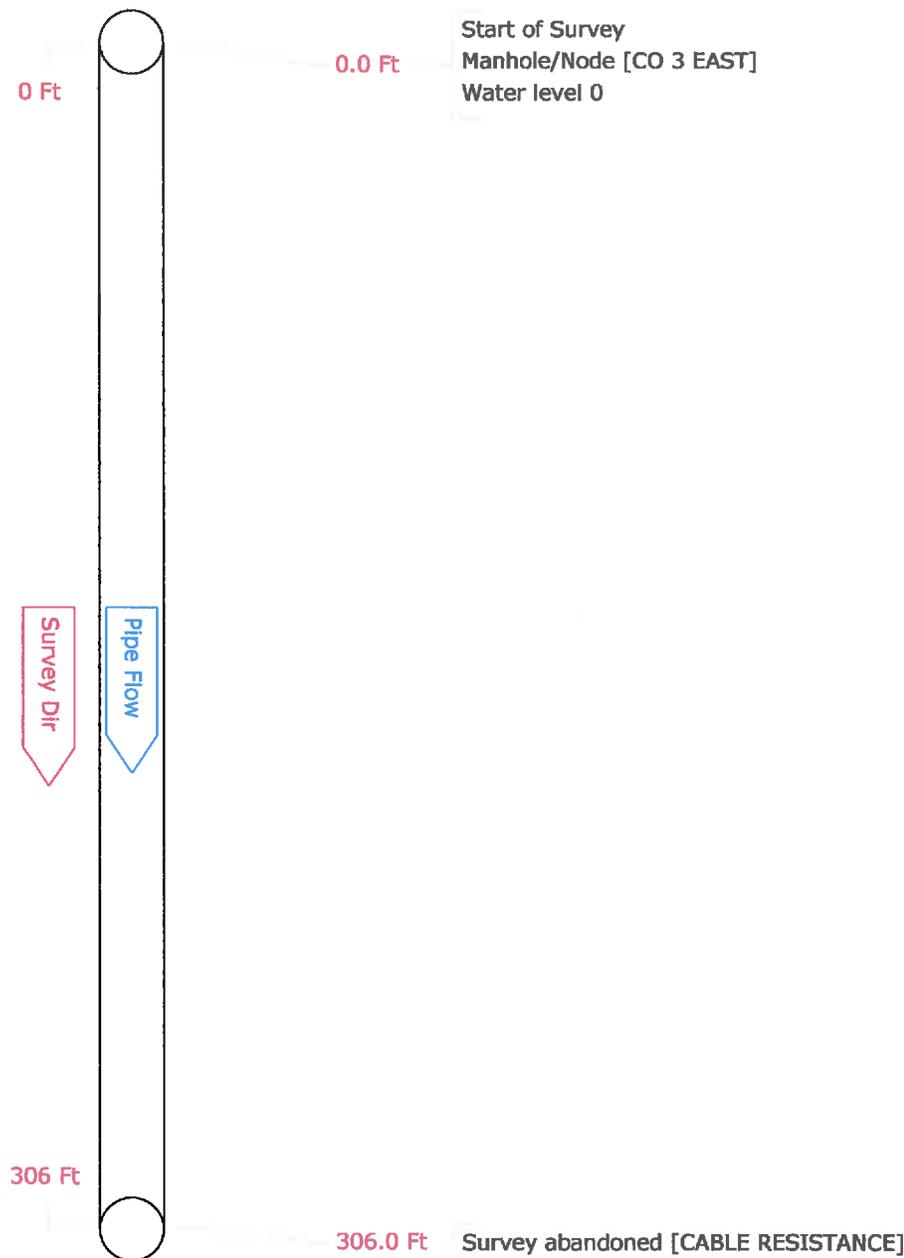
Work Order	Contract	Video 1	Setup 15
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface			
Survey purpose	Random survey of pipes and things	Weather	Dry
Pipe Use	LEACHATE	Schedule length	Ft
Shape	Circular	Size 6 by	ins
Material	hdpe	Joint spacing	Ft
Lining		Year laid	
		From CO 2 EAST	Depth Ft
		To CO 2A EAST	Depth Ft
		Direction	Downstream
		Pre-clean Y	Last cleaned 7/8/2009
General note			
Location note Phase 5			



Pipe Graphic Report of PLR CO 3 EAST T

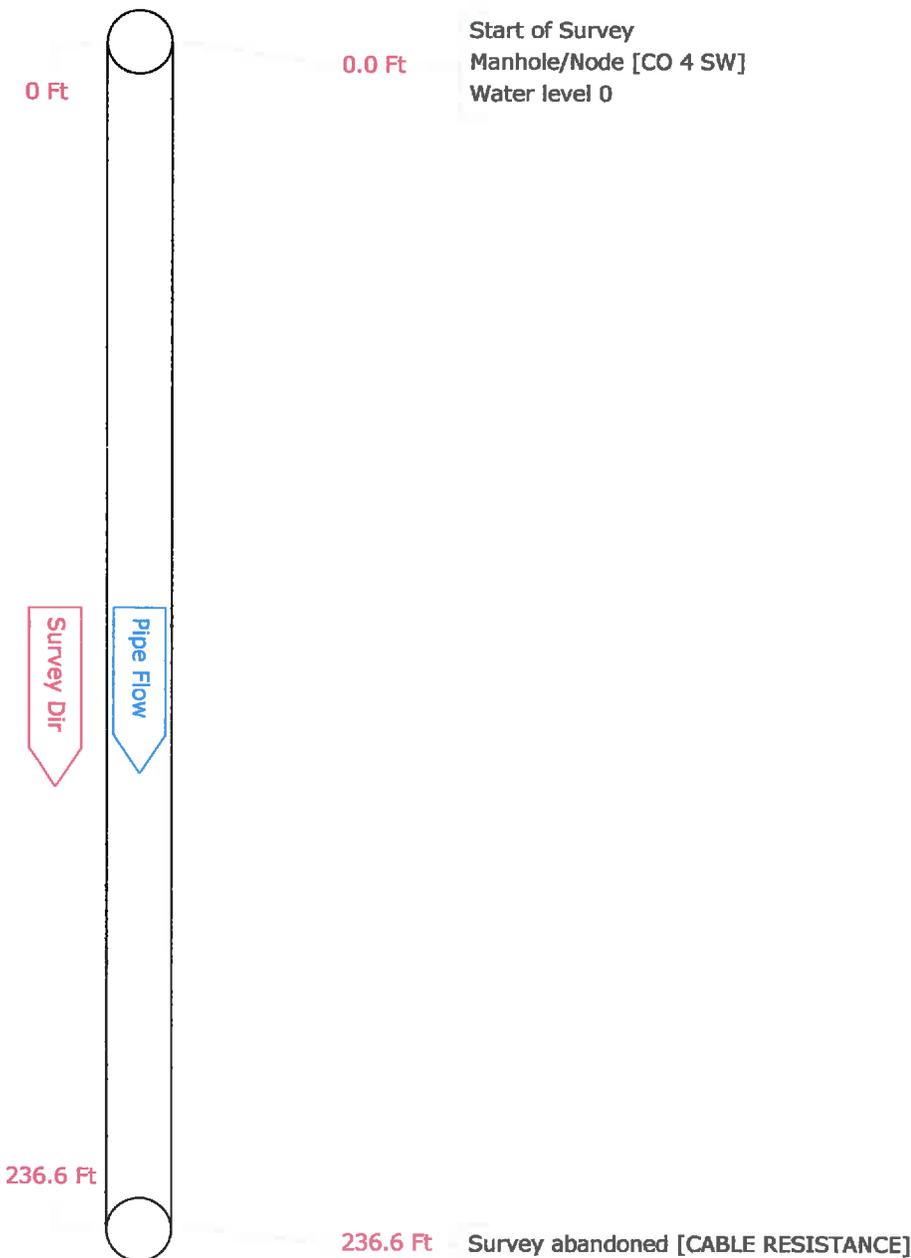
for Johnston County

Work Order	Contract	Video 1	Setup 16
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface			
Survey purpose	Random survey of pipes and things	Weather Dry	
Pipe Use	LEACHATE	Schedule length	Ft
Shape	Circular	Size 6 by	ins
Material	hdpe	Joint spacing	Ft
Lining		Year laid	
		From CO 3 EAST	Depth Ft
		To CO 3A EAST	Depth Ft
		Direction	Downstream
		Pre-clean Y	Last cleaned 7/8/2009
General note			
Location note Phase 5			



Pipe Graphic Report of PLR CO 4 SW T for Johnston County

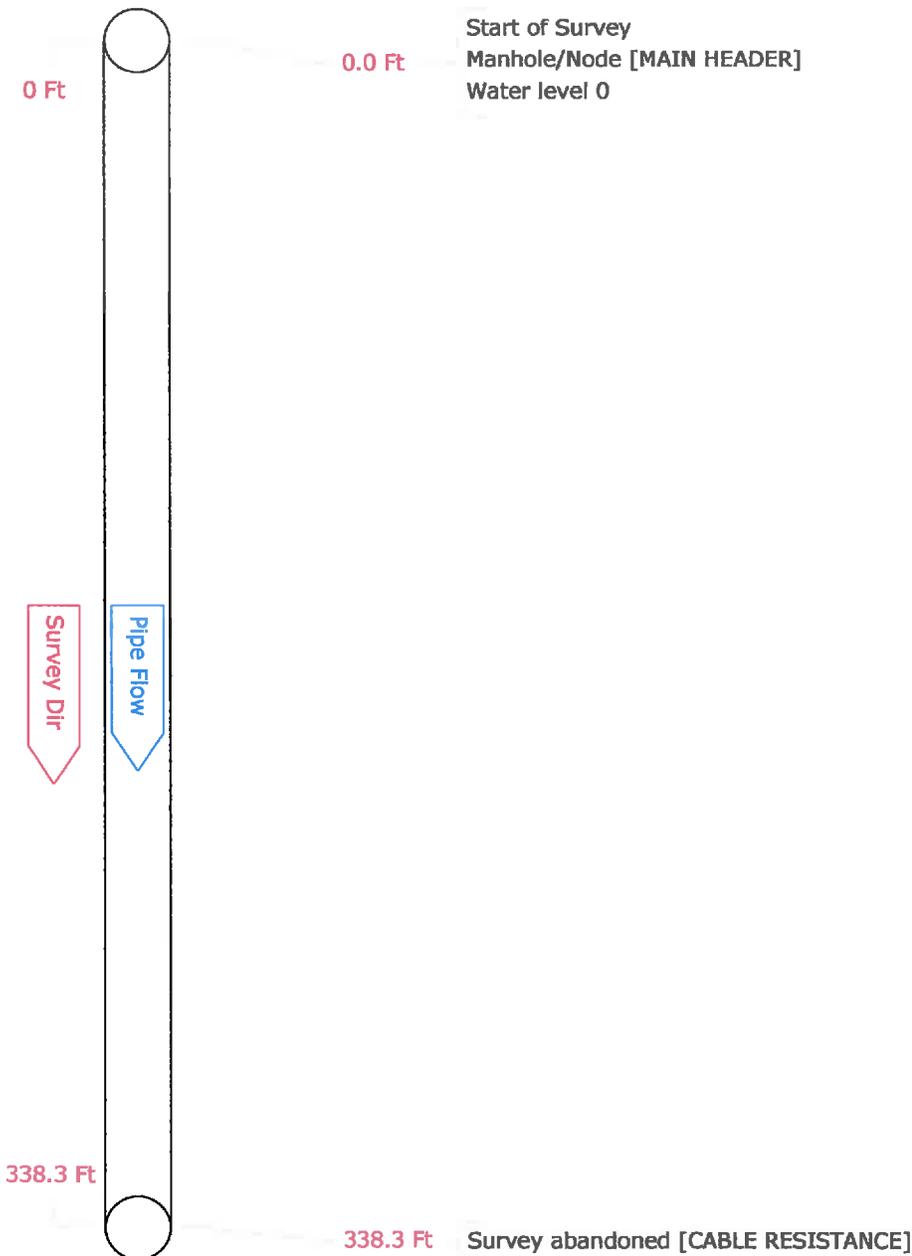
Work Order	Contract	Video 1	Setup 17
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface		Weather Dry	
Survey purpose	Random survey of pipes and things		
Pipe Use LEACHATE	Schedule length	Ft	From CO 4 SW Depth Ft
Shape Circular	Size 6 by ins		To CO 4A SW Depth Ft
Material hdpe	Joint spacing	Ft	Direction Downstream
Lining	Year laid		Pre-clean Y Last cleaned 7/8/2009
General note			
Location note Phase 5			



Pipe Graphic Report of PLR MAIN HEADER T

for Johnston County

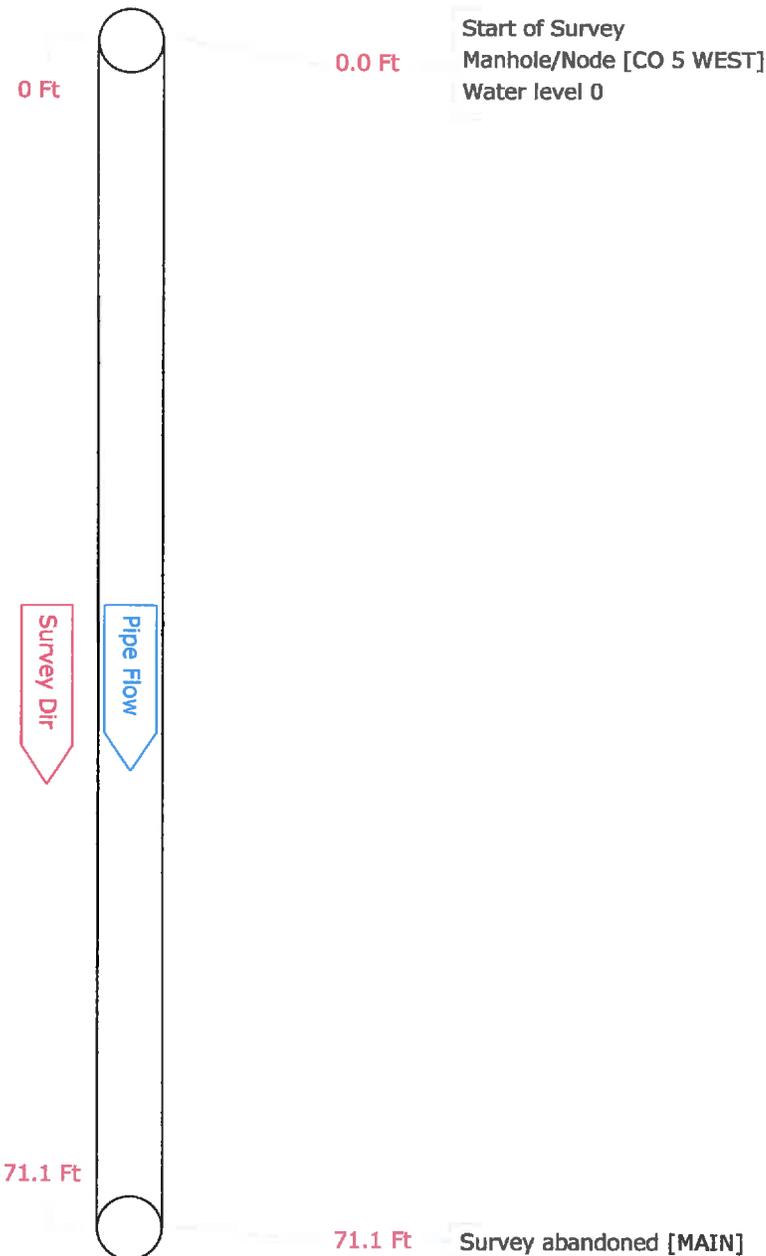
Work Order	Contract	Video 1	Setup 18
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface			
Survey purpose	Random survey of pipes and things	Weather Dry	
Pipe Use	LEACHATE	Schedule length	Ft
Shape	Circular	Size 6 by	ins
Material	hdpe	Joint spacing	Ft
Lining		Year laid	
		From MAIN HEADER	Depth Ft
		To MAIN HEADERA	Depth Ft
		Direction	Downstream
		Pre-clean Y	Last cleaned 7/8/2009
General note			
Location note Phase 5			



Pipe Graphic Report of PLR CO 5 WEST T

for Johnston County

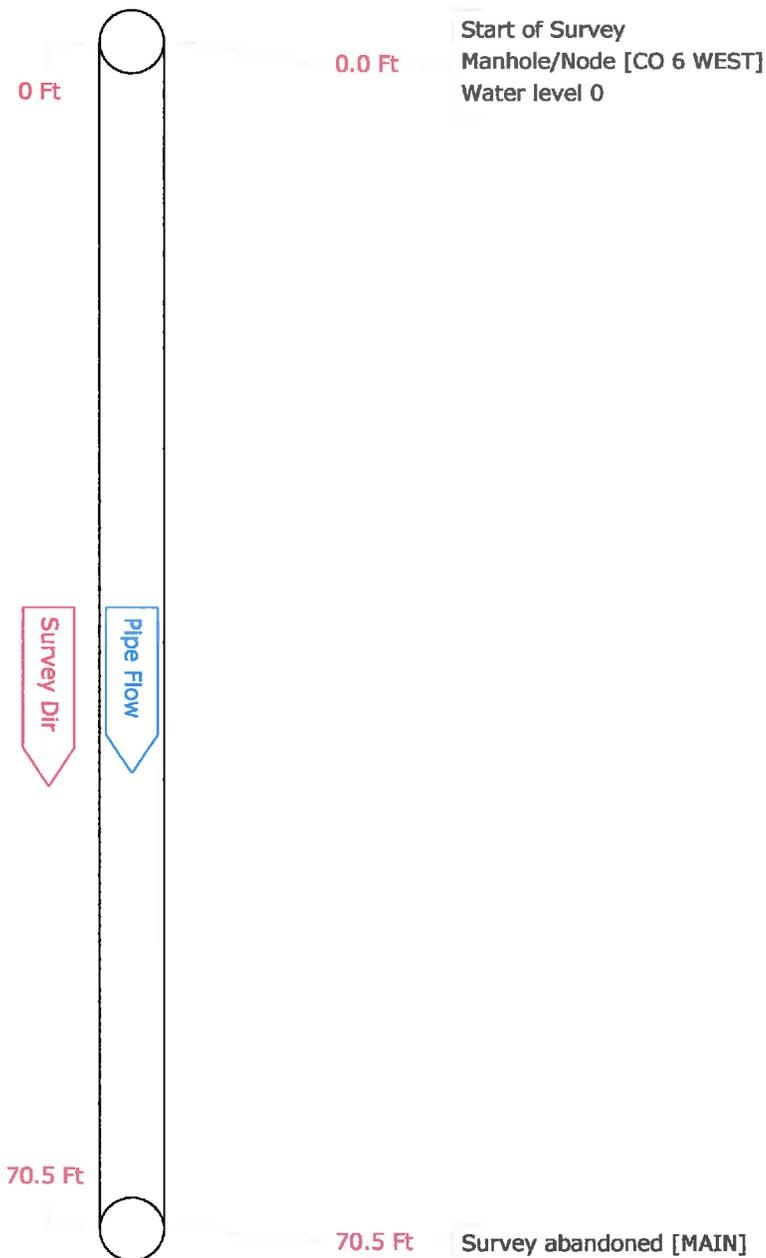
Work Order	Contract	Video 1	Setup 19
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface		Weather Dry	
Survey purpose	Random survey of pipes and things		
Pipe Use LEACHATE	Schedule length	Ft	From CO 5 WEST Depth Ft
Shape Circular	Size 6 by	ins	To CO 5A WEST Depth Ft
Material hdpe	Joint spacing	Ft	Direction Downstream
Lining	Year laid		Pre-clean Y Last cleaned 7/8/2009
General note			
Location note Phase 5			



Pipe Graphic Report of PLR CO 6 WEST T

for Johnston County

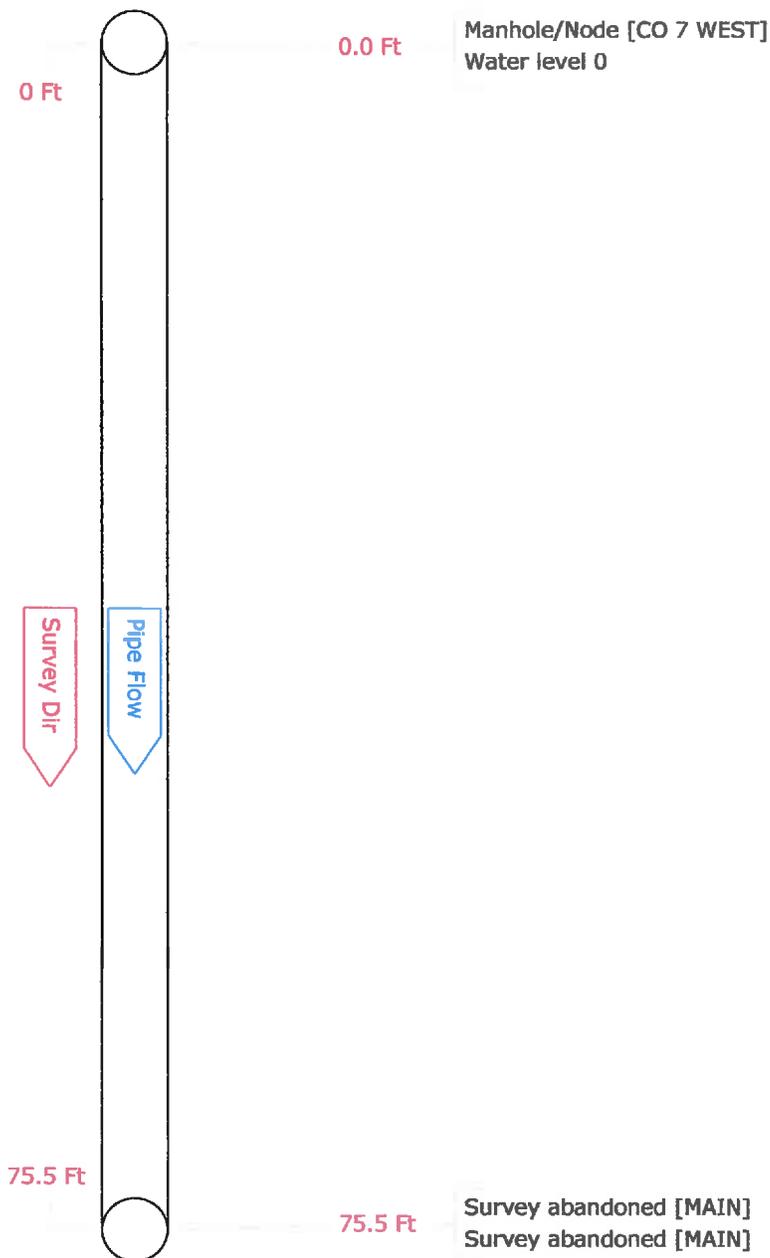
Work Order	Contract	Video 1	Setup 20
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface			
Survey purpose	Random survey of pipes and things	Weather Dry	
Pipe Use	LEACHATE	Schedule length	Ft
Shape	Circular	Size 6 by	ins
Material	hdpe	Joint spacing	Ft
Lining		Year laid	
		From CO 6 WEST	Depth Ft
		To CO 6A WEST	Depth Ft
		Direction	Downstream
		Pre-clean Y	Last cleaned 7/8/2009
General note			
Location note Phase 5			



Pipe Graphic Report of PLR CO 7 WEST T

for Johnston County

Work Order	Contract	Video 1	Setup 21
Facility	Operator David	Van Ref NC-1	Surveyed On 07/07/2009
Street Name	Johnston County Landfill	City	
Location type	LANDFILL		
Surface	Survey purpose Random survey of pipes and things		Weather Dry
Pipe Use LEACHATE	Schedule length	Ft	From CO 7 WEST Depth Ft
Shape Circular	Size 6 by ins		To CO 7A WEST Depth Ft
Material hdpe	Joint spacing	Ft	Direction Downstream
Lining	Year laid		Pre-clean Y Last cleaned 7/8/2009
General note			
Location note Phase 5			



CCTV Surveys List for Johnston County Sumps

Number of surveys in this list is 12 as of Monday, July 13, 2009

Unit of measure: ft

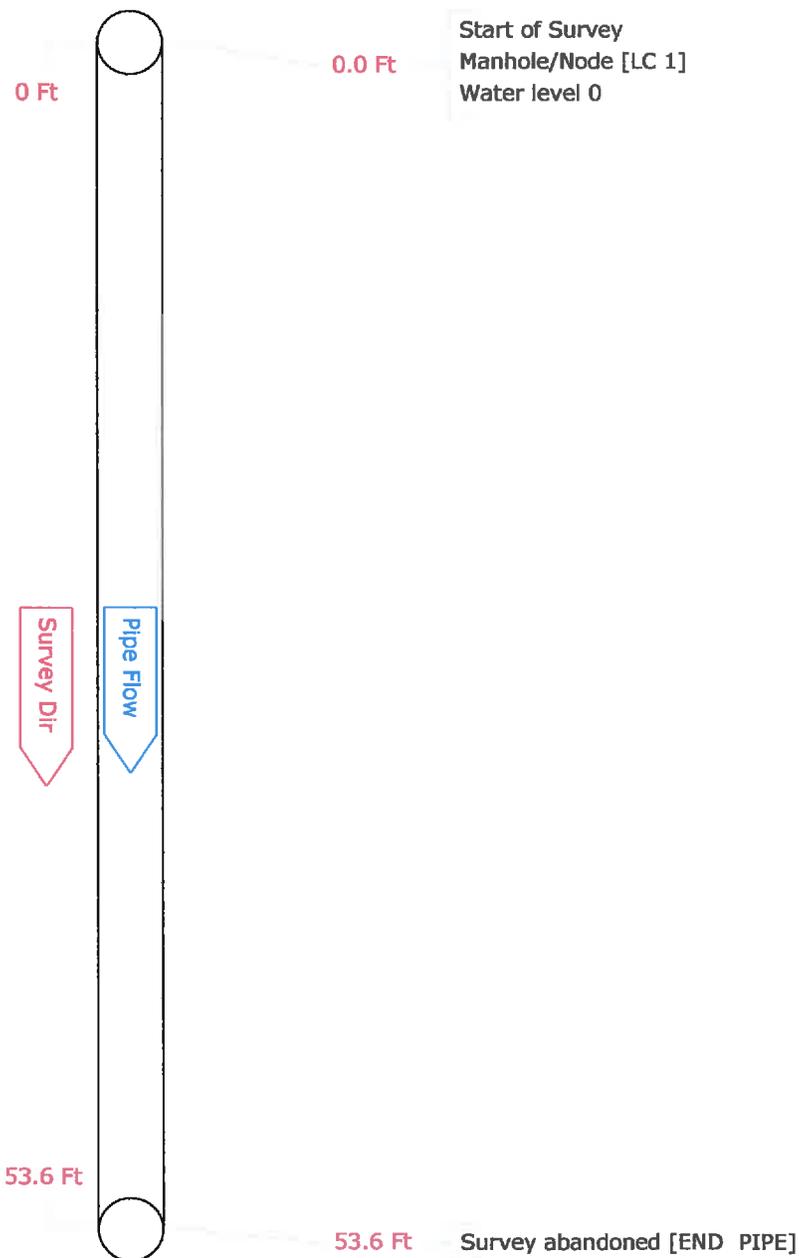
Setup Date	Street	Start MH	Finish MH	Dir	Size inch	Pre Clean	Vid Cassette	Scheduled Length	Surveyed Length
1	Johnston County Sumps	LC 1	LC 1A	D	18	Y			53.6
2	Johnston County Sumps	LC 2	LC 2A	D	18	Y			52.5
3	Johnston County Sumps	LD 1	LD 1A	D	18	Y			53.3
4	Johnston County Sumps	LC 1	LC 1A	D	18	Y			50.7
5	Johnston County Sumps	LC 2	LC 2A	D	18	Y			51.0
6	Johnston County Sumps	GFM 1	GFM MAIN	D	8	N			12.1
7	Johnston County Sumps	GFM 2	GFM MAIN	D	8	N			5.1
8	Johnston County Sumps	GFM 3	GFM MAIN	D	8	N			6.0
9	Johnston County Sumps	GFM 4	GFM MAIN	D	8	N			5.5
10	Johnston County Sumps	GFM 5	GFM MAIN	D	8	N			5.3
11	Johnston County Sumps	GFM 6	GFM MAIN	D	8	N			4.8
12	Johnston County Sumps	GFM 7	GFM MAIN	D	8	N			4.3

Total Scheduled Length 0.0

Total Length Surveyed 304.2

Pipe Graphic Report of PLR LC 1 X for Johnston County Sumps

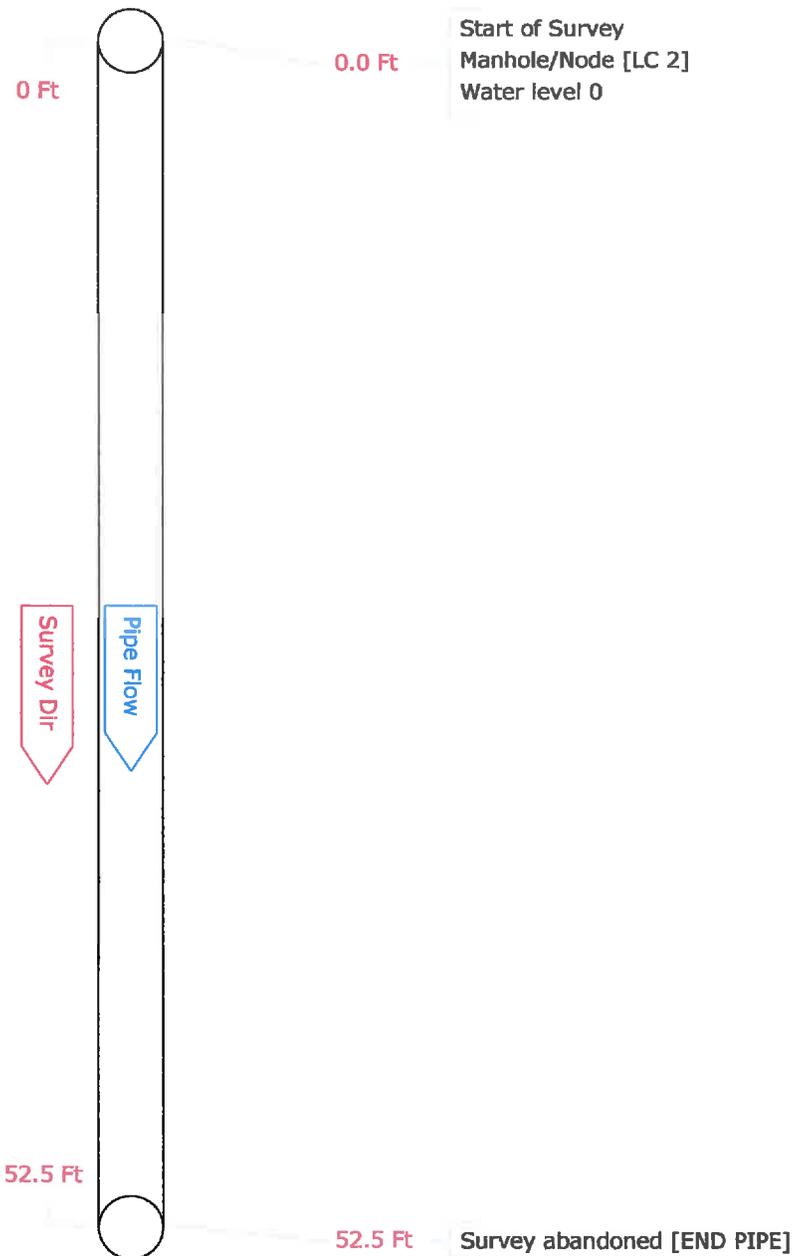
Work Order	Contract	Video	Setup 1
Facility	Operator David	Van Ref NC-1	Surveyed On 07/09/2009
Street Name	Johnston County Sumps	City	
Location type	LANDFILL		
Surface		Weather	Dry
Survey purpose			
Pipe Use LEACHATE	Schedule length	Ft	From LC 1 Depth Ft
Shape Circular	Size 18 by ins		To LC 1A Depth Ft
Material hdpe	Joint spacing	Ft	Direction Downstream
Lining	Year laid		Pre-clean Y Last cleaned
General note			
Location note Phase C-D			



Pipe Graphic Report of PLR LC 2 X

for Johnston County Sumps

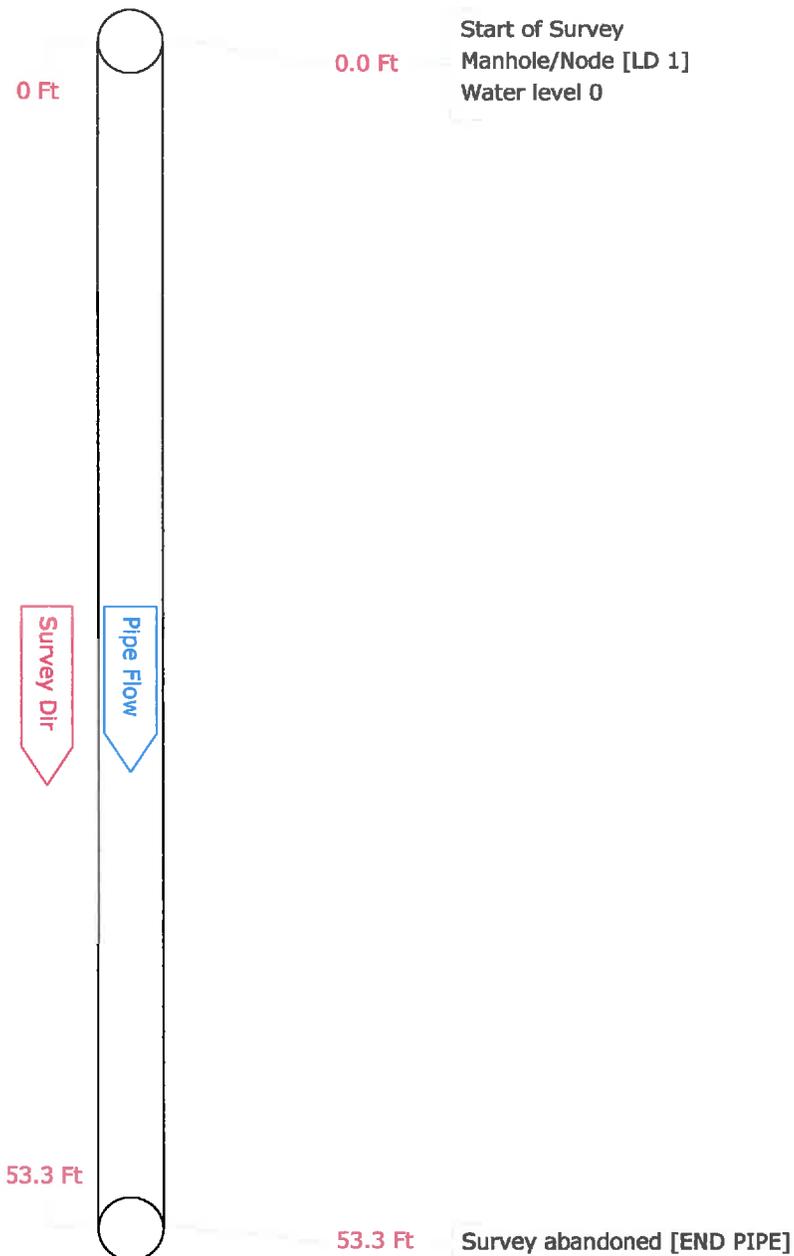
Work Order	Contract	Video	Setup 2
Facility	Operator David	Van Ref NC-1	Surveyed On 07/09/2009
Street Name	Johnston County Sumps	City	
Location type	LANDFILL		
Surface		Weather	Dry
Survey purpose			
Pipe Use LEACHATE	Schedule length Ft	From LC 2	Depth Ft
Shape Circular	Size 18 by ins	To LC 2A	Depth Ft
Material hdpe	Joint spacing Ft	Direction Downstream	
Lining	Year laid	Pre-clean Y	Last cleaned 7/9/2009
General note			
Location note Phase 4A Cell 1 & 2			



Pipe Graphic Report of PLR LD 1 X

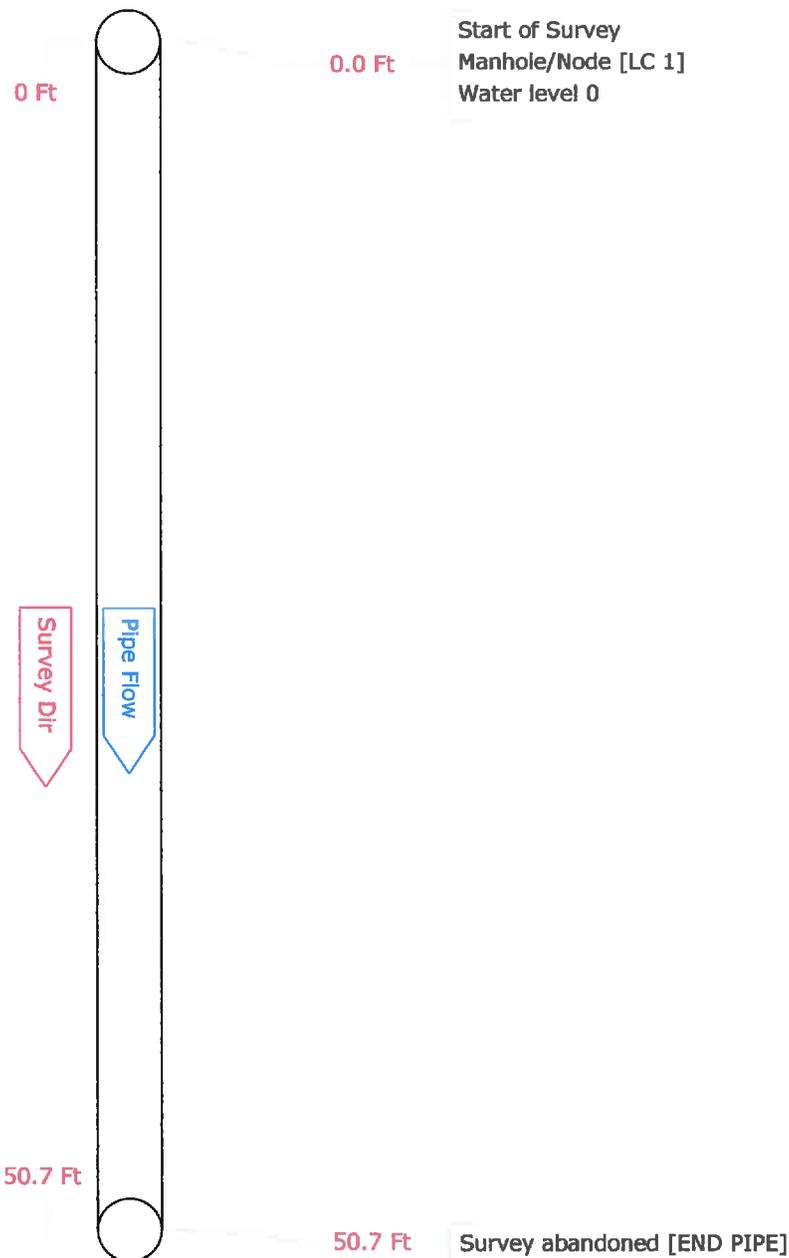
for Johnston County Sumps

Work Order	Contract	Video	Setup 3
Facility	Operator David	Van Ref NC-1	Surveyed On 07/09/2009
Street Name	Johnston County Sumps	City	
Location type	LANDFILL		
Surface		Weather	Dry
Survey purpose			
Pipe Use LEACHATE	Schedule length Ft	From LD 1	Depth Ft
Shape Circular	Size 18 by ins	To LD 1A	Depth Ft
Material hdpe	Joint spacing Ft	Direction Downstream	
Lining	Year laid	Pre-clean Y	Last cleaned 7/9/2009
General note			
Location note Phase 4A Cell 1 & 2			



Pipe Graphic Report of PLR LC 1 X for Johnston County Sumps

Work Order	Contract	Video	Setup 4
Facility	Operator David	Van Ref NC-1	Surveyed On 07/09/2009
Street Name	Johnston County Sumps	City	
Location type	LANDFILL		
Surface		Weather	Dry
Survey purpose			
Pipe Use LEACHATE	Schedule length	Ft	From LC 1 Depth Ft
Shape Circular	Size 18 by ins		To LC 1A Depth Ft
Material hdpe	Joint spacing	Ft	Direction Downstream
Lining	Year laid		Pre-clean Y Last cleaned
General note			
Location note Phase C-D			

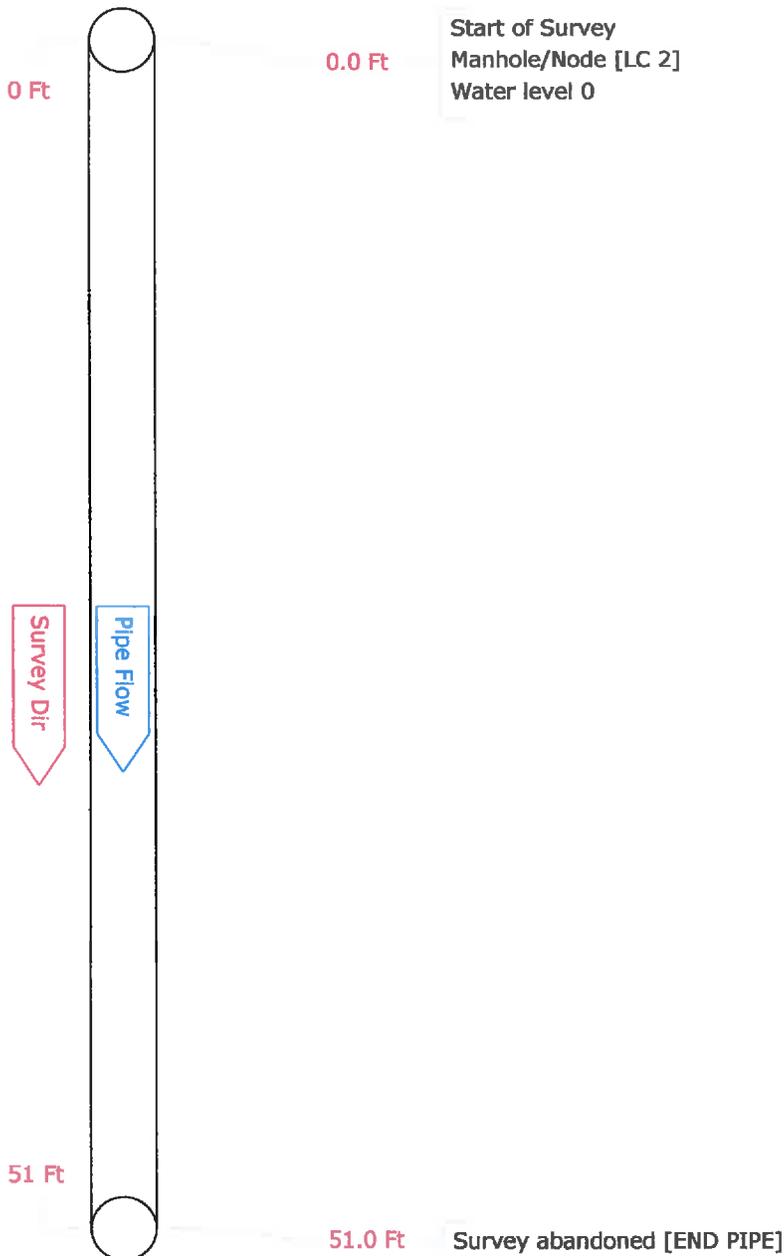


Pipe Graphic Report of PLR LC 2

C

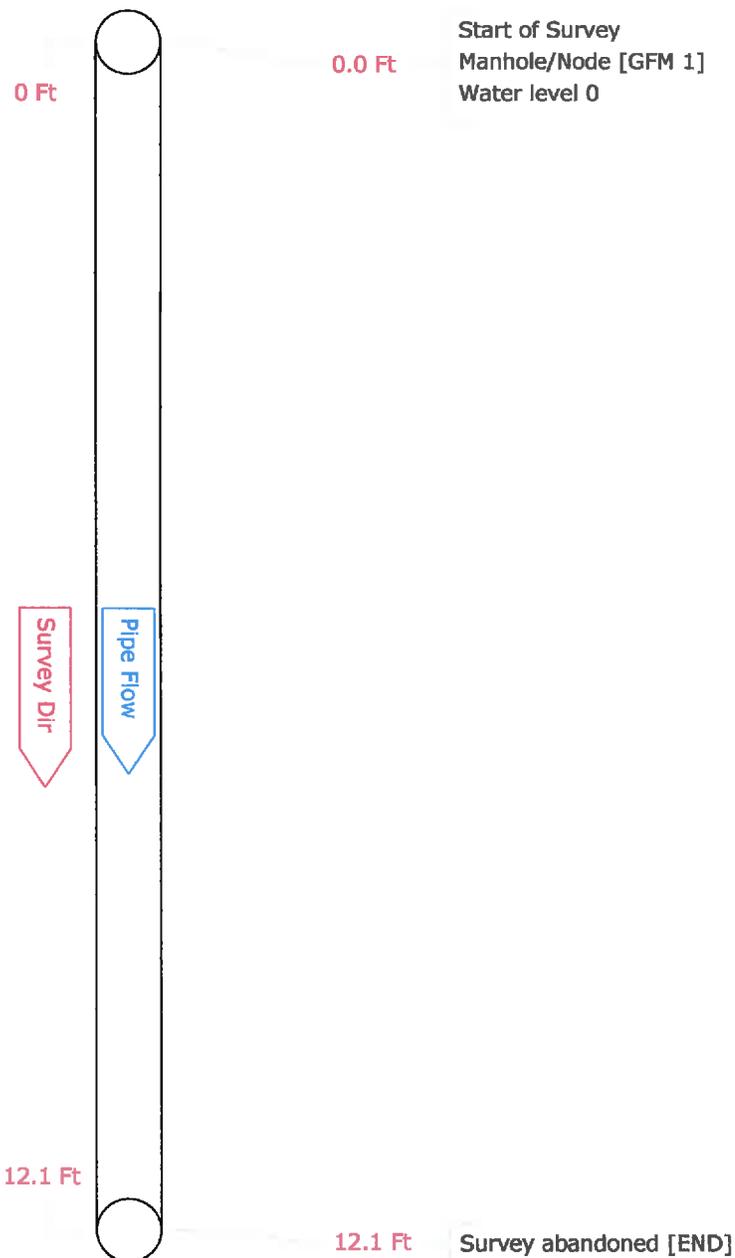
for Johnston County Sumps

Work Order	Contract	Video	Setup 5
Facility	Operator David	Van Ref NC-1	Surveyed On 07/09/2009
Street Name	Johnston County Sumps	City	
Location type	LANDFILL		
Surface		Weather	Dry
Survey purpose			
Pipe Use LEACHATE	Schedule length Ft	From LC 2	Depth Ft
Shape Circular	Size 18 by ins	To LC 2A	Depth Ft
Material hdpe	Joint spacing Ft	Direction Downstream	
Lining	Year laid	Pre-clean Y	Last cleaned
General note			
Location note Phase C-D			



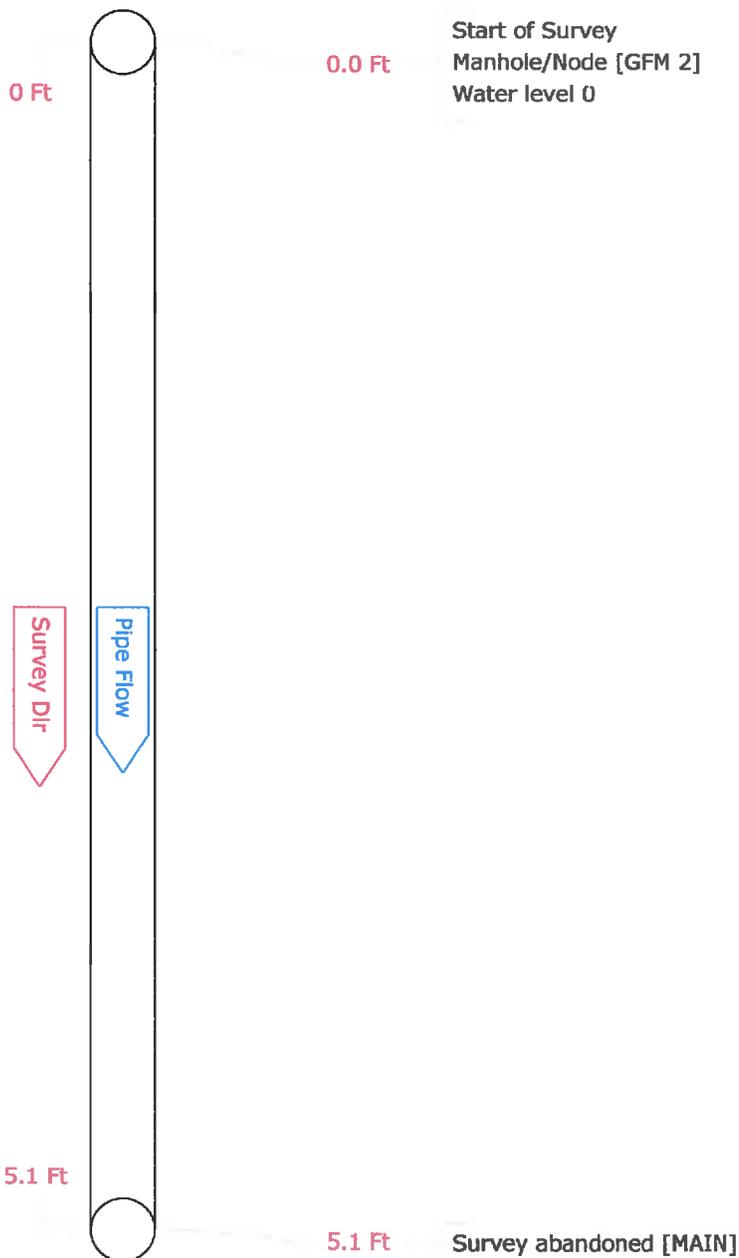
Pipe Graphic Report of PLR GFM 1 C for Johnston County Sumps

Work Order	Contract	Video	Setup 6
Facility	Operator David	Van Ref NC-1	Surveyed On 07/09/2009
Street Name	Johnston County Sumps	City	
Location type	LANDFILL		
Surface		Weather	Dry
Survey purpose			
Pipe Use LEACHATE	Schedule length Ft	From GFM 1	Depth Ft
Shape Circular	Size 8 by ins	To GFM MAIN	Depth Ft
Material hdpe	Joint spacing Ft	Direction Downstream	
Lining	Year laid	Pre-clean N	Last cleaned
General note			
Location note Phase 5			



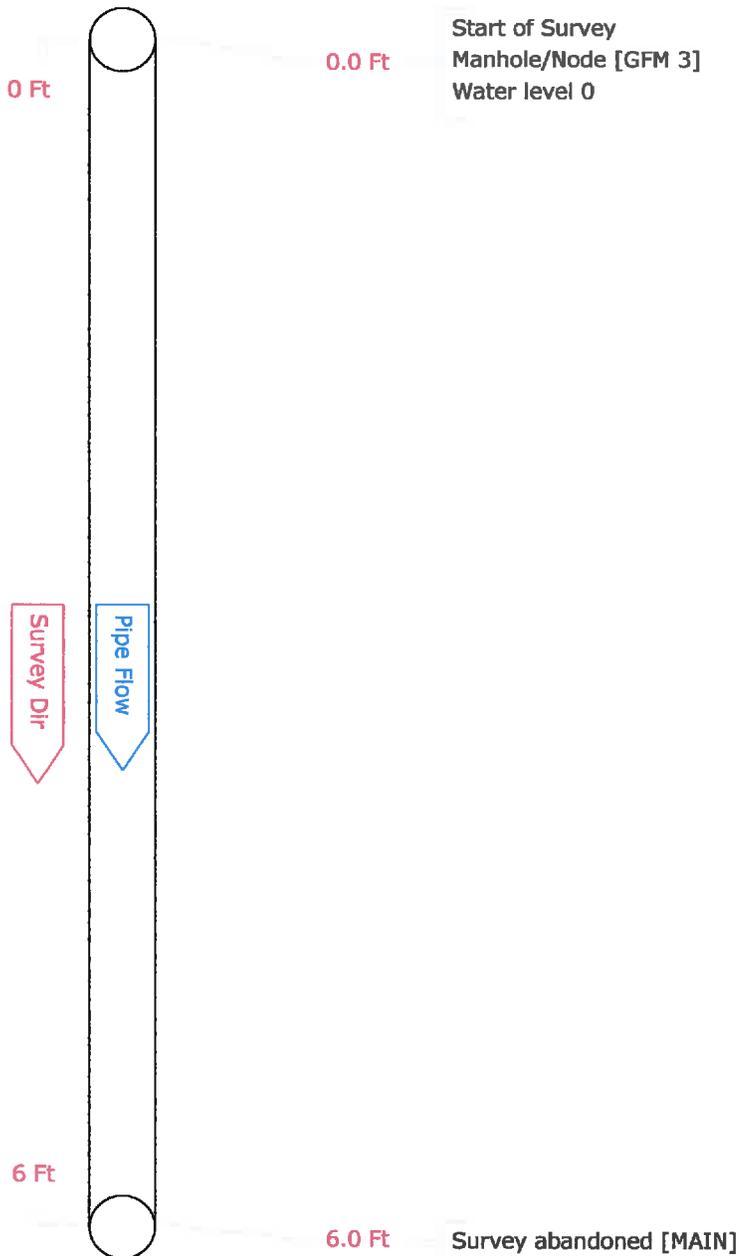
Pipe Graphic Report of PLR GFM 2 C for Johnston County Sumps

Work Order	Contract	Video	Setup 7
Facility	Operator David	Van Ref NC-1	Surveyed On 07/09/2009
Street Name	Johnston County Sumps	City	
Location type	LANDFILL		
Surface		Weather	Dry
Survey purpose			
Pipe Use LEACHATE	Schedule length Ft	From GFM 2	Depth Ft
Shape Circular	Size 8 by ins	To GFM MAIN	Depth Ft
Material hdpe	Joint spacing Ft	Direction Downstream	
Lining	Year laid	Pre-clean N	Last cleaned
General note			
Location note Phase 5			



Pipe Graphic Report of PLR GFM 3 C for Johnston County Sumps

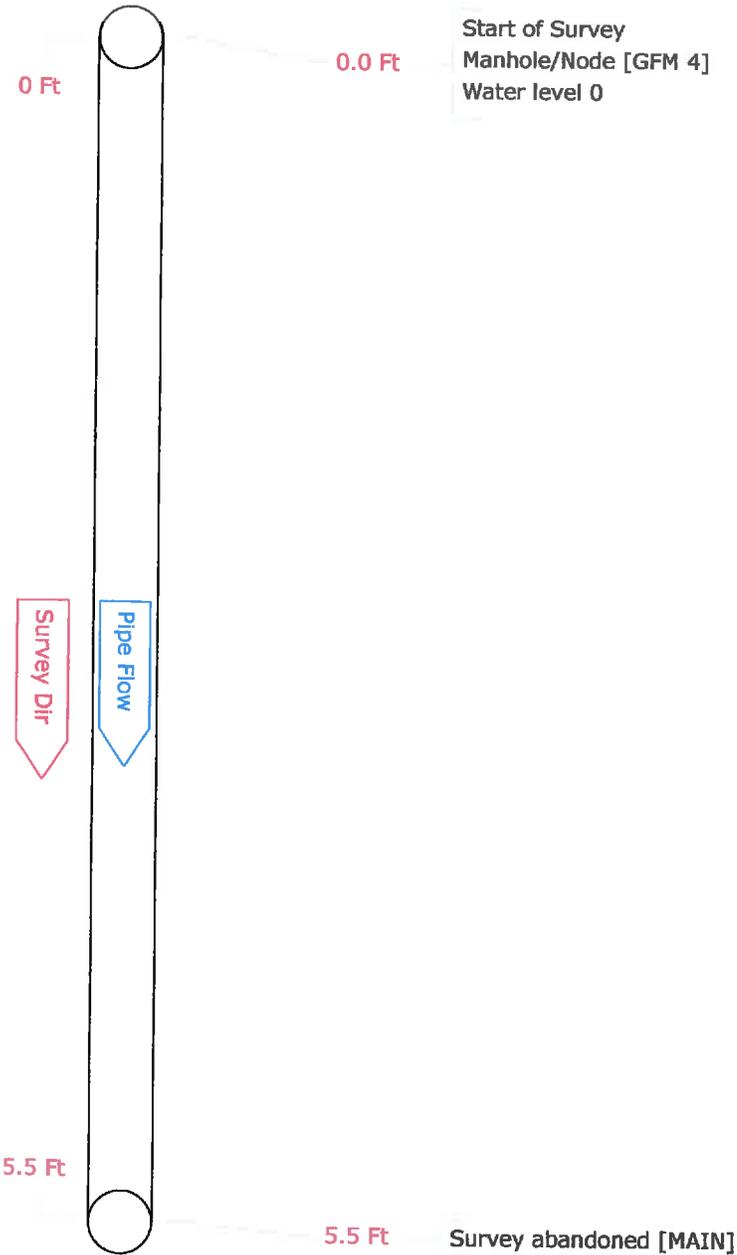
Work Order	Contract	Video	Setup 8
Facility	Operator David	Van Ref NC-1	Surveyed On 07/09/2009
Street Name	Johnston County Sumps	City	
Location type	LANDFILL		
Surface			
Survey purpose		Weather Dry	
Pipe Use LEACHATE	Schedule length Ft	From GFM 3	Depth Ft
Shape Circular	Size 8 by ins	To GFM MAIN	Depth Ft
Material hdpe	Joint spacing Ft	Direction Downstream	
Lining	Year laid	Pre-clean N	Last cleaned
General note			
Location note Phase 5			



Pipe Graphic Report of PLR GFM 4 C

for Johnston County Sumps

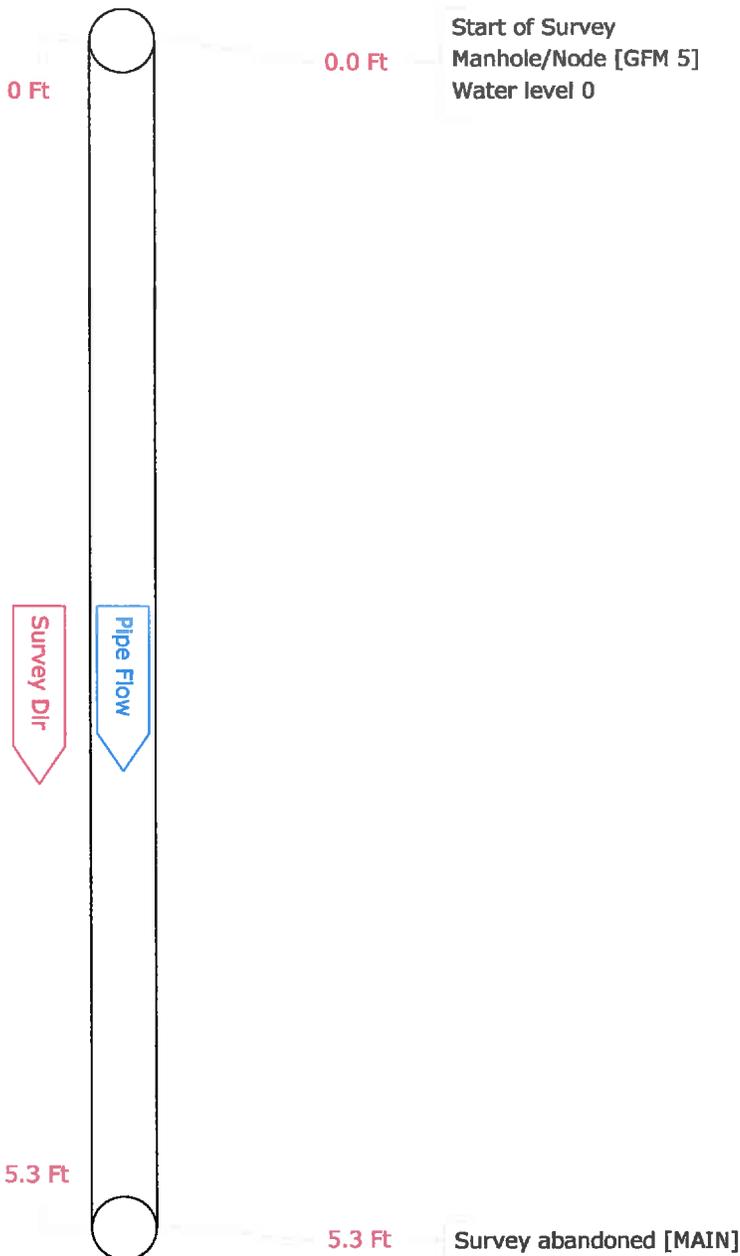
Work Order	Contract	Video	Setup 9
Facility	Operator David	Van Ref NC-1	Surveyed On 07/09/2009
Street Name	Johnston County Sumps	City	
Location type	LANDFILL		
Surface			
Survey purpose		Weather Dry	
Pipe Use LEACHATE	Schedule length	From GFM 4	Depth Ft
Shape Circular	Size 8 by ins	To GFM MAIN	Depth Ft
Material hdpe	Joint spacing Ft	Direction Downstream	
Lining	Year laid	Pre-clean N	Last cleaned
General note			
Location note .Phase 5			



Pipe Graphic Report of PLR GFM 5 C

for Johnston County Sumps

Work Order	Contract	Video	Setup 10
Facility	Operator David	Van Ref NC-1	Surveyed On 07/09/2009
Street Name	Johnston County Sumps	City	
Location type	LANDFILL		
Surface		Weather Dry	
Survey purpose			
Pipe Use LEACHATE	Schedule length Ft	From GFM 5	Depth Ft
Shape Circular	Size 8 by ins	To GFM MAIN	Depth Ft
Material hdpe	Joint spacing Ft	Direction Downstream	
Lining	Year laid	Pre-clean N	Last cleaned
General note			
Location note .Phase 5			

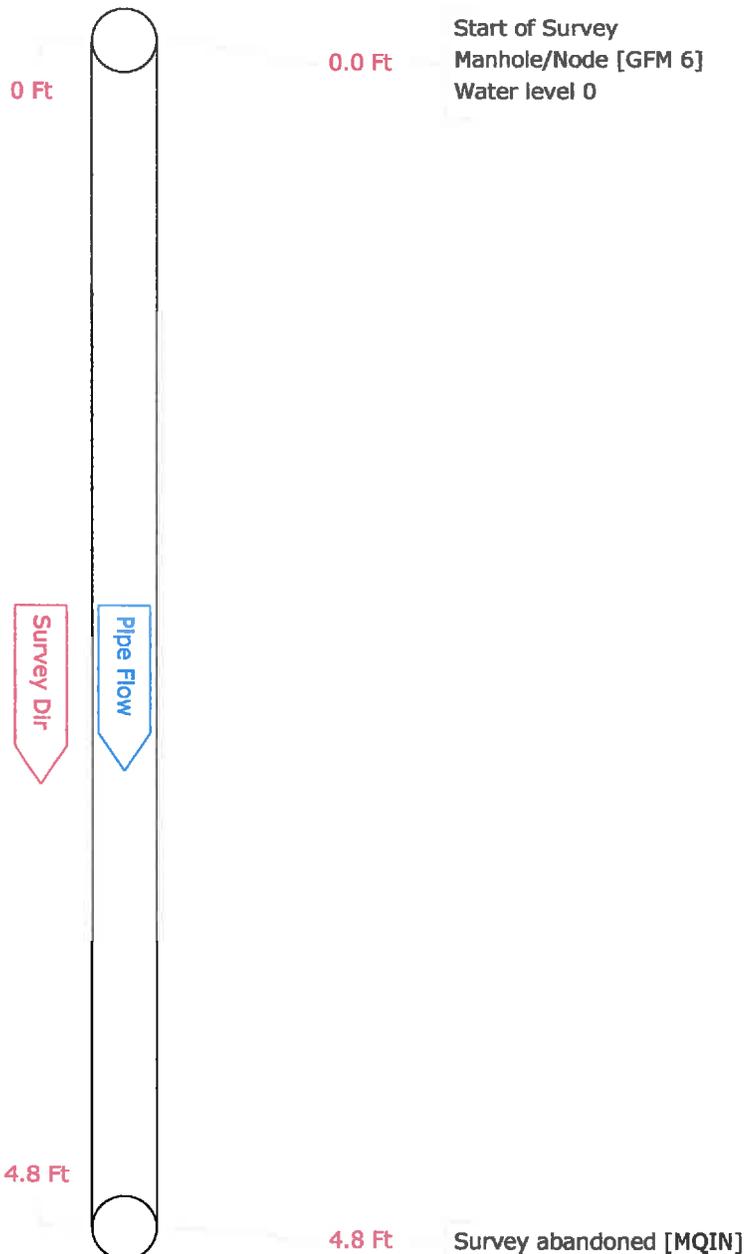


Pipe Graphic Report of PLR GFM 6

C

for Johnston County Sumps

Work Order	Contract	Video	Setup 11
Facility	Operator David	Van Ref NC-1	Surveyed On 07/09/2009
Street Name	Johnston County Sumps	City	
Location type	LANDFILL		
Surface		Weather	Dry
Survey purpose			
Pipe Use LEACHATE	Schedule length Ft	From GFM 6	Depth Ft
Shape Circular	Size 8 by ins	To GFM MAIN	Depth Ft
Material hdpe	Joint spacing Ft	Direction Downstream	
Lining	Year laid	Pre-clean N	Last cleaned
General note			
Location note .Phase 5			



Pipe Graphic Report of PLR GFM 7 C

for Johnston County Sumps

Work Order	Contract	Video	Setup 12
Facility	Operator David	Van Ref NC-1	Surveyed On 07/09/2009
Street Name	Johnston County Sumps	City	
Location type	LANDFILL		
Surface			
Survey purpose		Weather Dry	
Pipe Use LEACHATE	Schedule length Ft	From GFM 7	Depth Ft
Shape Circular	Size 8 by ins	To GFM MAIN	Depth Ft
Material hdpe	Joint spacing Ft	Direction Downstream	
Lining	Year laid	Pre-clean N	Last cleaned
General note			
Location note .Phase 5			

