OIR: 2324/809

6 March 2024

[redacted]

Tēnā koe [redacted],

Request for Information under the Local Government Official Information and Meetings Act 1987 (the Act) (the LGOIMA)

Thank you for your email of **15 February 2024** requesting the following information:

Please advise whether each of the culverts listed below is subject to periodic inspections, and if yes, for each, please advise the frequency of inspection and provide the most recent inspection report:

	Asset ID
1. Lower Lagoon	
1.35 from Upper Lagoon	***KSWP012623***
0.375 from Major Durie	***KSWP003634***

KSWP012623: No CCTV inspection scheduled. However, outlets and sea outfalls are inspected prior to and after rain events, and open drains including those connecting into the lagoons are subject to a 3-to-6-month inspection and maintenance regime.

KSWP003634: CCTV-ed 08.07.2022.

2. Upper Lagoon

0.525 from 174 Tutere St	***KSWP003713***
0.375 from Hastings St	***KSWP004547***
0.375 from 1 Marewa Pl	***KSWP004512***
14 Hastings St culvert dia not specified	***KSWP008721***

0.525 from 174 Tutere St.	KSWP003713	CCTV-ed 11.08.2022
0.375 from Hastings St.	KSWP004547	22.11.2023 Debris in line[1]

Please note that any information provided in response to your request may be published on the Council website, with your personal details removed.

0.375 from 1 Marewa Pl.	KSWP004512	CCTV-ed 11.07.2022
14 Hastings St.	KSWP008721	refer to KSWP012623 above.

3. Top Drain

Top culvert behind 14 Victor	***KSWP008722***
0.225 from 12 Victor Gr	***KSWP004528***
0.600 from 49 Queens Rd	***KSWP003629***
0.300 from West Eruini	***KSWP003815***
Under Eruini dia not specified	***KSWP008723***
0.225 from Kaitawa	***KSWP013508***
0.225 from Queens	***KSWP013509***
0.525 from Flaxmere	***KSWP003760***
0.300 from 30 Waimea	***KSWP009523***
0.375 under Waimea	***KSWP003751***
0.300 from Weggery	***KSWP003817***
1.600 from Te Moana	***KSWP000130***

Culvert behind 14 Victor	KSWP008722	refer to KSWP012623 above.
0.225 from 12 Victor Gr.	KSWP004528	CCTV-ed 09.08.2022
0.600 from 49 Queens Rd.	KSWP003629	CCTV-ed 22.07.2022
0.300 from West Eruini	KSWP003815	CCTV-ed 01.07.2022
Under Eruini dia…	KSWP008723	refer to KSWP012623 above.
0.225 from Kaitawa	KSWP013508	CCTV-ed 24.08.2022*
0.225 from Queens	KSWP013509	CCTV-ed 24.08.2022*
0.525 from Flaxmere	KSWP003760	CCTV-ed 29.07.2022
0.300 from 30 Waimea	KSWP009523	24.11.2023 Full of water
0.375 under Waimea	KSWP003751	CCTV-ed 29.11.2023
0.300 from Weggery	KSWP003817	CCTV-ed 12.08.2022
1.600 from Te Moana	KSWP000130	CCTV scheduled by 06.2024

* Videos are available for the lines denoted.
[1] Contractor scheduled to clean out line by 06.2024

Please note that any information provided in response to your request may be published on the Council website, with your personal details removed.

Please note that the KCDC Depot and Stormwater & Coastal staff are available to sit down and talk to you about the concerns you have raised including the data, CCTV videos and maintenance programmes that we follow. Please contact Paul Busing, Stormwater & Coastal Assets Project Manager via e-mail paul.busing@kapiticoast.govt.nz if you wish to arrange a meeting.

Ngā mihi,

Sean Mallon
Group Manager Infrastructure and Asset Management
Te Kaihautū Ratonga Pakiaka

Please note that any information provided in response to your request may be published on the Council website, with your personal details removed.

Anzel
, LEVIN

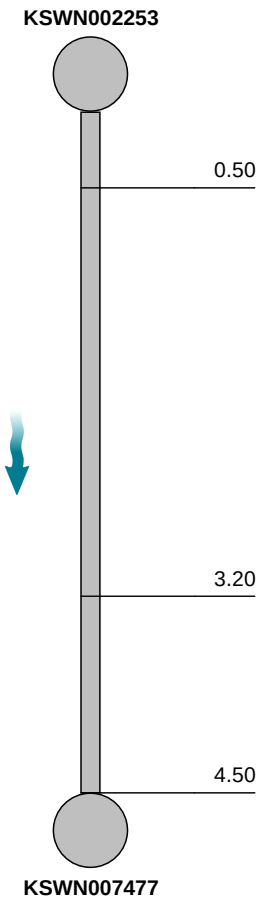
Section Inspection - 8/07/2022 - KSWP003634

Section No.	Asset No.	Contract Number	Date	Time	Weather
51	**KSWP003634**	**2022 C456**	**8/07/2022**	**3:51 pm**	
Town or Suburb	Camera Operator	Operator	Video Reference	Drawing No.	Client
Waikanae		**Jude Booker**			**Kapiti Coast District Council**

Line Length	**4.50 m**	Material	**Concrete pre cast**	Use	**Stormwater**
Setup	**Upstream node**	Shape	**Circular pipe**	Pipe Status	**Original condition**
Surveyed Length	**4.00 m**	Dia/Height	**375 mm**	Currency	
Joint Spacing	**0.00 m**	Width	**0 mm**	Inspection	
Surface	**Chip seal**	Location	**Council road - carriageway**	Cleaning Status	

U/S Node	**KSWN002253**	D/S Node	**KSWN007477**
U/S Node Type	**Stormwater manhole**	D/S Node Type	**Stormwater node**
U/S Pipe Depth		D/S Pipe Depth	
U/S Location	**Barret Dr**	D/S Location	**Barret Dr**

Comments



1:50	m +	OC	Observation	MPEG	Photo	Score
	0.50	IS	Inspection start, node reference: KSWN002253	00:00:18	KSWP003634_1ba1942e-786e	
	3.20	MC	Material change / Bosspipe	00:01:17	KSWP003634_23266daf-560e-	
	4.50	IE	Inspection ends, node reference: KSWN007477	00:02:28	KSWP003634_e8054480-66f1-	

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 8/07/2022 - KSWP003634

Town or Suburb		Date	Asset No.	Section No.
Waikanae		**8/07/2022**	**KSWP003634**	**51**

KSWP003634_1ba1942e-786e-4d32-a0ef-3e5e99191770_20220708_155106_788.jpg, 00:00:18, 0.50m
Inspection start, node reference: KSWN002253

KSWP003634_23266daf-560e-4aaf-960b-442abe849b0c_20220708_155222_076.jpg, 00:01:17, 3.20m
Material change / Bosspipe

KSWP003634_e8054480-66f1-423c-82c9-a92725071798_20220708_155606_909.jpg, 00:02:28, 4.50m
Inspection ends, node reference: KSWN007477

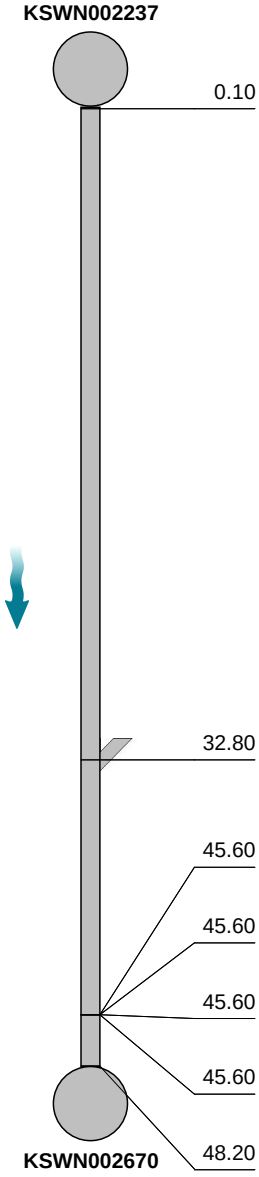
Anzel
, LEVIN

Section Inspection - 11/08/2022 - KSWP003713

Section No.	Asset ID	Operator's Reference	Date of inspection	Time of inspection	Precipitation
27	**KSWP003713**	**c456**	**11/08/2022**	**1:15 pm**	
Town or suburb	Name of Coder	Name of Operator	Video volume reference 1		Client
Waikanae	**Jude Booker**	**Jude Booker**	**WK01**		**Kapiti Coast District Council**

Pipe Length	**48.20 m**	Material	**Steel Reinforced Concrete**	Use of Pipeline	**Stormwater**
Setup	**Upstream node**	Shape	**Circular**		
Surveyed Length	**48.10 m**	Height	**525 mm**	Currency	
Joint Spacing	**2.40 m**	Width	**525 mm**	Inspection	**Inspection complete**
Asset owner		Location type	**Under a road**	Cleaning Status	**Light cleaning**

Up node reference	**KSWN002237**	Down node reference	**KSWN002670**
U/S Node Type		D/S Node Type	
Depth at upstream node		Depth at downstream nod	
U/S Location	**177 Tutere St**	D/S Location	**Lagoon**
General comment	**None**		



1:380	m +	OC	Observation	MPEG	Photo	Score
	0.10	IS	Inspection start, node reference: KSWN002237	00:00:10	KSWP003713_8fcaed6d-e316-	
	32.80	LO	The lateral is open at 9 o'clock / Ok	00:03:14	KSWP003713_ba39b8cc-c631-	
	45.60	JFDL	Joint damaged/chipped, large, clearly through the pipe wall from 12 o'clock to 12 o'clock	00:04:25	KSWP003713_bdd97187-9c4c	17
	45.60	DIS	Gap separation width 20mm	00:04:31	KSWP003713_4a77d837-2bba	36
	45.60	LD	Line deviates down	00:04:37	KSWP003713_71c9edd4-90be-	
	45.60	RIFS	Fine roots, roots restrict flow by 10% or less of full flow from 9 o'clock to 3 o'clock	00:04:52	KSWP003713_90419e6e-c99a	3
	48.20	IE	Inspection ends, node reference: KSWN002670	00:05:25	KSWP003713_08170dd5-a2ee	

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
3	56.0	1.2	56.0	4.0	0	0.0	0.0	0.0	1.0

Section Pictures - 11/08/2022 - KSWP003713

Town or suburb	Location	Date of inspection	Asset ID	Section No.
Waikanae		**11/08/2022**	**KSWP003713**	**27**

KSWP003713_8fcaed6d-e316-4503-bd38-4c2f453a4dee_20220811_131533_459.jpg, 00:00:10, 0.10m (48.10m)
Inspection start, node reference: KSWN002237

KSWP003713_ba39b8cc-c631-4d6d-bf67-e948ee438793_20220811_131924_634.jpg, 00:03:14, 32.80m (15.40m)
The lateral is open at 9 o'clock / Ok

KSWP003713_ab94fea7-9b65-4da0-ae52-e7a3c67fc7da_20220811_131941_203.jpg, 00:03:14, 32.80m (15.40m)
The lateral is open at 9 o'clock / Ok

KSWP003713_bdd97187-9c4c-4e12-97c5-650296e93888_20220811_132048_371.jpg, 00:04:25, 45.60m (2.60m)
Joint damaged/chipped, large, clearly through the pipe wall from 12 o'clock to 12 o'clock

Section Pictures - 11/08/2022 - KSWP003713

Town or suburb	Location	Date of inspection	Asset ID	Section No.
Waikanae		**11/08/2022**	**KSWP003713**	**27**

KSWP003713_4a77d837-2bba-4c40-a44b-a017512c4149_20220811_132102_186.jpg, 00:04:31, 45.60m (2.60m)
Gap separation width 20mm

KSWP003713_71c9edd4-90be-4488-97db-24646cada9ca_20220811_132110_921.jpg, 00:04:37, 45.60m (2.60m)
Line deviates down

KSWP003713_90419e6e-c99a-4298-a253-86fee32ccecd_20220811_132134_875.jpg, 00:04:52, 45.60m (2.60m)
Fine roots, roots restrict flow by 10% or less of full flow from 9 o'clock to 3 o'clock

KSWP003713_08170dd5-a2ee-498c-b1cb-0e14d6ec21e9_20220811_132210_981.jpg, 00:05:25, 48.20m (0.00m)
Inspection ends, node reference: KSWN002670

Anzel
, Levin

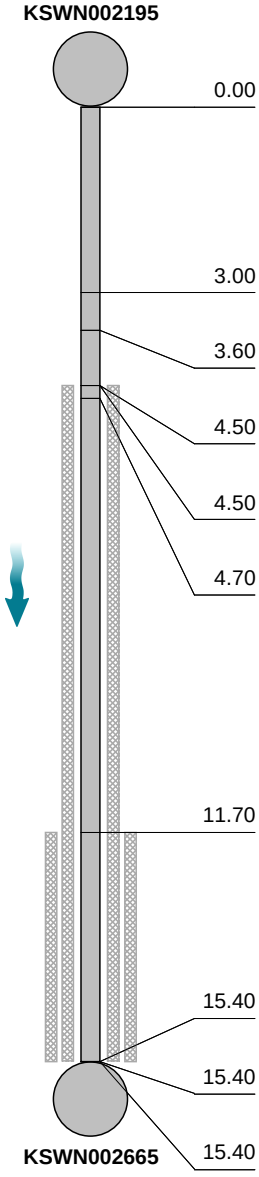
Section Inspection - 29/11/2023 - KSWP003751

Section No.	Asset ID	Operator's Reference	Date of inspection	Time of inspection	Precipitation
42	**KSWP003751**		**29/11/2023**	**10:57 am**	**No precipitation**
Town or suburb	Name of Coder	Name of Operator	Video volume reference 1	Standard	Client
Waikanae	**Jude Booker**	**Jude Booker**	**42/New**	**NZPIM (Gravity)-4th Edition 2019**	**Kapiti Coast District Council**

Pipe Length	**15.40 m**	Material	**Steel Reinforced Concrete**	Use of Pipeline	**Stormwater**
Setup	**Upstream node**	Shape	**Circular**	Purpose of inspection	**Routine inspection of condition**
Surveyed Length	**15.40 m**	Height	**375 mm**	Operation of Pipeline	**Gravity**
Joint Spacing	**2.40 m**	Width	**375 mm**	Inspection	**Inspection complete**
Asset owner		Location type	**Under property with buildings (Developed)**	Cleaning Status	**Heavy cleaned**

Up node reference	**KSWN002195**	Down node reference	**KSWN002665**
U/S Node Type	**Sewer Manhole**	D/S Node Type	**Stormwater Outlet**
Depth at upstream node		Depth at downstream nod	
U/S Location	**35 Waimea Road**	D/S Location	**35 Waimea Road**

General comment: **Contract Number - 430**



1:122	m +		OC	Observation	MPEG	Photo	Score
	0.00		IS	Inspection start, node reference: KSWN002195	00:00:00	42_KSWP003751_195.jpg	
	3.00		PHS	Pipe holed, the hole has been repaired at 12 o'clock / repaired	00:02:26	42_KSWP003751_196.jpg	25 / 3
	3.60		CCM	Crack circumferential, crack, medium, open no evidence that the crack extends to the outside wall from 12 o'clock to 12 o'clock	00:02:53	42_KSWP003751_197.jpg	7
	4.50	S01	DPM	Dipped pipe, dip 25% to 50% of the pipe diameter, start	00:03:10	42_KSWP003751_198.jpg	
	4.50		CMM	Cracks multiple, medium, crack open but there is no evidence that the crack extends to the outside wall from 10 o'clock to 3 o'clock	00:03:25	42_KSWP003751_199.jpg,42_	25
	4.70		GPU	General Photograph, Facing Up	00:03:48	42_KSWP003751_201.jpg	
	11.70	S02	LOVUW	Loss of Vision, Under Water	00:05:45	42_KSWP003751_202.jpg	
	15.40	F01	DPM	Dipped pipe, dip 25% to 50% of the pipe diameter, end	00:06:36	42_KSWP003751_203.jpg	6 / 35
	15.40	F02	LOVUW	Loss of Vision, Under Water	00:06:39	42_KSWP003751_204.jpg	
	15.40		IE	Inspection ends, node reference: KSWN002665	00:06:46	42_KSWP003751_205.jpg	

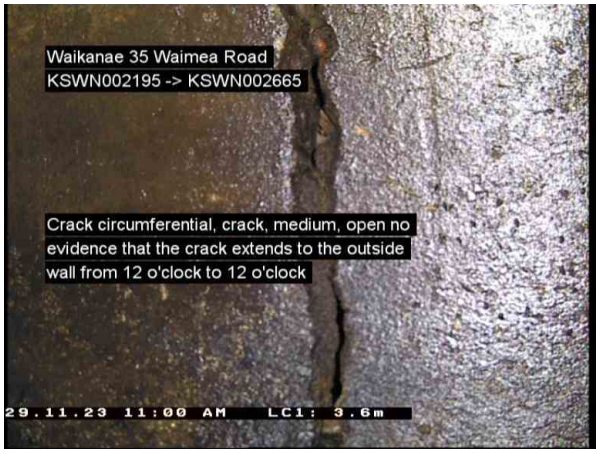
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
4	31.0	4.1	63.0	3.0	2	35.0	2.5	38.0	3.0

Section Pictures - 29/11/2023 - KSWP003751

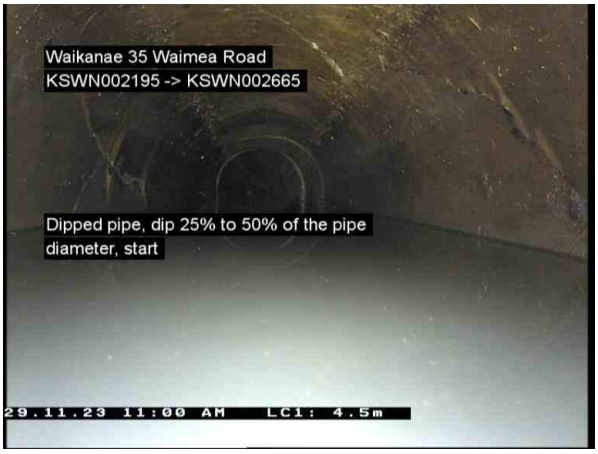
Town or suburb	Location	Date of inspection	Asset ID	Section No.
Waikanae	**35 Waimea Road**	**29/11/2023**	**KSWP003751**	**42**

42_KSWP003751_195.jpg, 00:00:00, 0.00m (15.40m)
Inspection start, node reference: KSWN002195

42_KSWP003751_196.jpg, 00:02:26, 3.00m (12.40m)
Pipe holed, the hole has been repaired at 12 o'clock / repaired



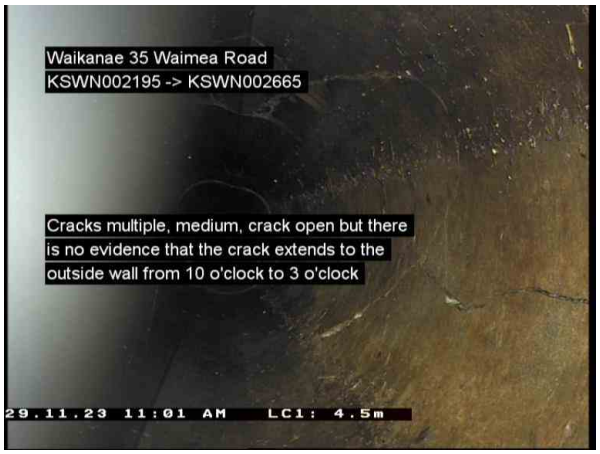
42_KSWP003751_197.jpg, 00:02:53, 3.60m (11.80m)
Crack circumferential, crack, medium, open no evidence that the crack extends to the outside wall from 12 o'clock to 12 o'clock



42_KSWP003751_198.jpg, 00:03:10, 4.50m (10.90m)
Dipped pipe, dip 25% to 50% of the pipe diameter, start

Section Pictures - 29/11/2023 - KSWP003751

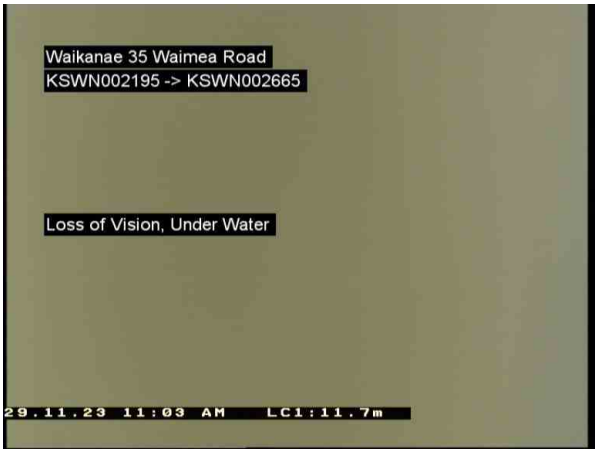
Town or suburb	Location	Date of inspection	Asset ID	Section No.
Waikanae	**35 Waimea Road**	**29/11/2023**	**KSWP003751**	**42**



42_KSWP003751_199.jpg, 00:03:25, 4.50m (10.90m)
Cracks multiple, medium, crack open but there is no evidence that the crack extends to the outside wall from 10 o'clock to 3 o'clock

42_KSWP003751_200.jpg, 00:03:25, 4.50m (10.90m)
Cracks multiple, medium, crack open but there is no evidence that the crack extends to the outside wall from 10 o'clock to 3 o'clock

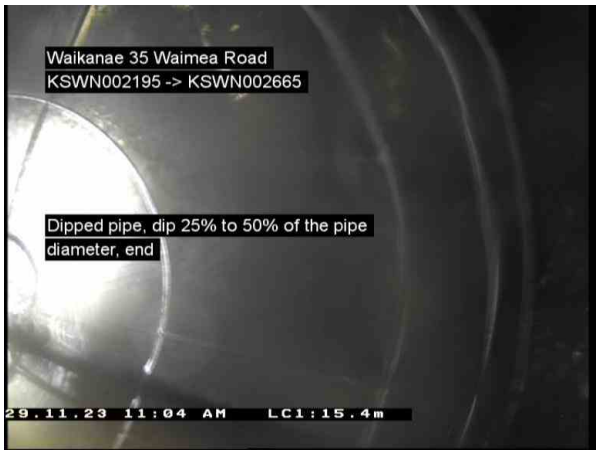
42_KSWP003751_201.jpg, 00:03:48, 4.70m (10.70m)
General Photograph, Facing Up



42_KSWP003751_202.jpg, 00:05:45, 11.70m (3.70m)
Loss of Vision, Under Water

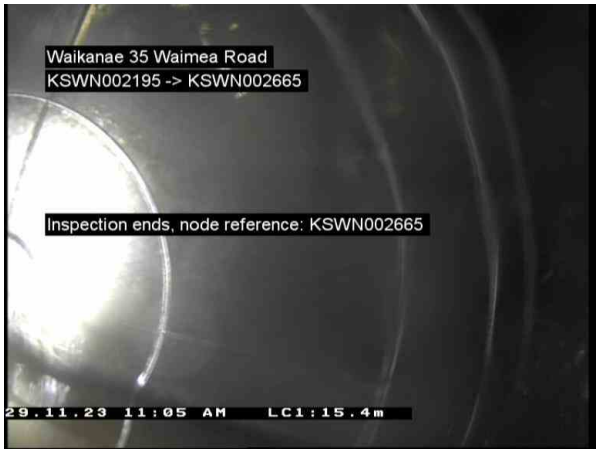
Section Pictures - 29/11/2023 - KSWP003751

Town or suburb	Location	Date of inspection	Asset ID	Section No.
Waikanae	**35 Waimea Road**	**29/11/2023**	**KSWP003751**	**42**



42_KSWP003751_203.jpg, 00:06:36, 15.40m (0.00m)
Dipped pipe, dip 25% to 50% of the pipe diameter, end

42_KSWP003751_204.jpg, 00:06:39, 15.40m (0.00m)
Loss of Vision, Under Water



42_KSWP003751_205.jpg, 00:06:46, 15.40m (0.00m)
Inspection ends, node reference: KSWN002665

Anzel
, LEVIN

Section Inspection - 29/07/2022 - KSWP003760

Section No.	Asset ID	Operator's Reference	Date of inspection	Time of inspection	Precipitation
50	**KSWP003760**	**C456**	**29/07/2022**	**1:00 pm**	**No precipitation**
Town or suburb	Name of Coder	Name of Operator	Video volume reference 1		Client
Waikanae	**Jude Booker**	**Jude**	**WK01**		**Kapiti Coast District Council**

Pipe Length	**55.40 m**	Material	**Steel Reinforced Concrete**	Use of Pipeline	**Stormwater**
Setup	**Upstream node**	Shape	**Circular**		
Surveyed Length	**55.40 m**	Height	**525 mm**	Currency	
Joint Spacing	**2.40 m**	Width	**525 mm**	Inspection	**Inspection complete**
Asset owner		Location type	**Under a footway beside road**	Cleaning Status	**Light cleaning**

Up node reference	**KSWN002199**	Down node reference	**KSWN002666**
U/S Node Type		D/S Node Type	**Stormwater Outlet**
Depth at upstream node		Depth at downstream nod	
U/S Location	**4 Queens Rd**	D/S Location	**10 Queens Rd**
General comment	**None**		

1:437	m +	OC	Observation	MPEG	Photo	Score
KSWN002199						
	0.00	IS	Inspection start, node reference: KSWN002199	00:00:12	KSWP003760_7677c142-fac2-4	
	55.40	IE	Inspection ends, node reference: KSWN002666	00:04:25	KSWP003760_eb9b8076-ced0	
KSWN002666						

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 29/07/2022 - KSWP003760

Town or suburb	Location	Date of inspection	Asset ID	Section No.
Waikanae		**29/07/2022**	**KSWP003760**	**50**

KSWP003760_7677c142-fac2-4d80-89f4-e9575e26f6a4_20220729_130055_240.jpg, 00:00:12, 0.00m (55.40m)
Inspection start, node reference: KSWN002199

KSWP003760_eb9b8076-ced0-4af8-a24e-2047390a5156_20220729_130513_621.jpg, 00:04:25, 55.40m (0.00m)
Inspection ends, node reference: KSWN002666

KSWP003760_8a078897-305d-4a67-b1bc-06dc3754d98b_20220729_130517_633.jpg, 00:04:25, 55.40m (0.00m)
Inspection ends, node reference: KSWN002666

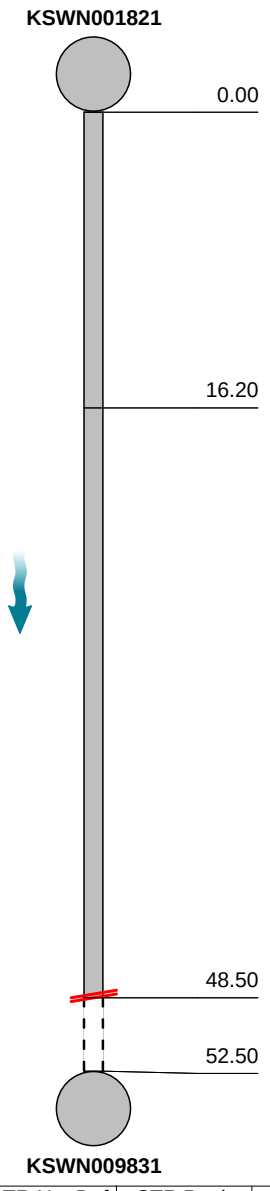
Anzel
, LEVIN

Section Inspection - 1/07/2022 - KSWP003815

Section No.	Asset No.	Contract Number	Date	Time	Weather
13	**KSWP003815**	**2022 C456**	**1/07/2022**	**1:48 pm**	
Town or Suburb	Camera Operator	Operator	Video Reference	Drawing No.	Client
Waikanae		**Jude Booker**		**WK01**	**Kapiti Coast District Council**

Line Length	**52.50 m**	Material	**Concrete pre cast**	Use	**Stormwater**
Setup	**Upstream node**	Shape	**Circular pipe**	Pipe Status	**Original condition**
Surveyed Length	**48.50 m**	Dia/Height	**300 mm**	Currency	
Joint Spacing	**0.00 m**	Width	**0 mm**	Inspection	
Surface	**Chip seal**	Location	**Council road - carriageway**	Cleaning Status	

U/S Node	**KSWN001821**	D/S Node	**KSWN009831**
U/S Node Type	**Stormwater manhole**	D/S Node Type	**Stormwater miscellaneous**
U/S Pipe Depth		D/S Pipe Depth	
U/S Location	**38 Eruini St**	D/S Location	**Eruini St**
Comments	**DS NODE IS AN OUTLET**		



1:414	m +	OC	Observation	MPEG	Photo	Score
	0.00	IS	Inspection start, node reference: KSWN001821	00:00:10	KSWP003815_55591706-00c2	
	16.20	GC	General comment / High water level going to creek	00:03:52	KSWP003815_6490fce0-0345-	
	48.50	IA	Inspection abandoned from 12 o'clock to 12 o'clock / High water, running into creek	00:11:27	KSWP003815_c7aa7907-fc96-4	
	52.50		End of pipe			

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 1/07/2022 - KSWP003815

Town or Suburb		Date	Asset No.	Section No.
Waikanae		**1/07/2022**	**KSWP003815**	**13**

KSWP003815_55591706-00c2-44c2-bdff-3145507a1a94_20220701_134803_749.jpg, 00:00:10, 0.00m
Inspection start, node reference: KSWN001821

KSWP003815_6490fce0-0345-4d25-ac2c-1e2e453b3bc3_20220701_135213_247.jpg, 00:03:52, 16.20m
General comment / High water level going to creek

KSWP003815_c7aa7907-fc96-4a78-b240-7bb6f4c7ad22_20220701_140011_875.jpg, 00:11:27, 48.50m
Inspection abandoned from 12 o'clock to 12 o'clock / High water, running into creek

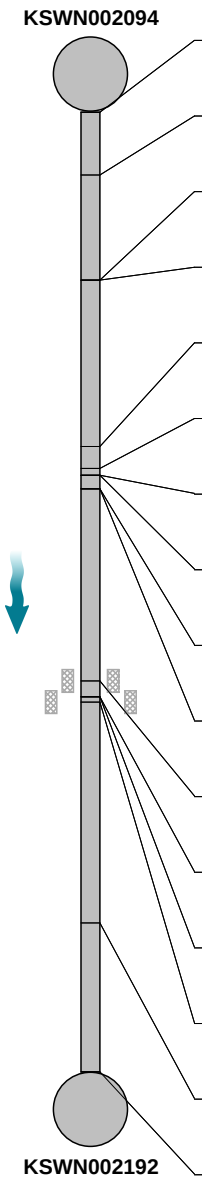
Anzel
, LEVIN

Section Inspection - 12/08/2022 - KSWP003817

Section No.	Asset ID	Operator's Reference	Date of inspection	Time of inspection	Precipitation
36	**KSWP003817**	**c456**	**12/08/2022**	**11:27 am**	
Town or suburb	Name of Coder	Name of Operator	Video volume reference 1		Client
Waikanae	**Jude Booker**	**Jude Booker**	**WK01**		**Kapiti Coast District Council**

Pipe Length	**56.00 m**	Material	**Steel Reinforced Concrete**	Use of Pipeline	**Stormwater**
Setup	**Upstream node**	Shape	**Circular**		
Surveyed Length	**56.00 m**	Height	**225 mm**	Currency	
Joint Spacing	**2.40 m**	Width	**225 mm**	Inspection	**Inspection complete**
Asset owner		Location type	**Under a road**	Cleaning Status	**Light cleaning**

Up node reference	**KSWN002094**	Down node reference	**KSWN002192**
U/S Node Type		D/S Node Type	
Depth at upstream node		Depth at downstream nod	
U/S Location	**45 Waimea Rd**	D/S Location	**41 Waimea Rd**
General comment	**None**		



1:441	m +	OC	Observation	MPEG	Photo	Score
KSWN002094	0.00	IS	Inspection start, node reference: KSWN002094	00:00:17	KSWP003817_224e464b-ab95	
	3.70	CCS	Crack circumferential, small, visible but not open from 3 o'clock to 9 o'clock	00:01:29	KSWP003817_06475611-4031	2
	9.80	JFDL	Joint damaged/chipped, large, clearly through the pipe wall from 4 o'clock to 6 o'clock / Roots	00:02:18	KSWP003817_35b78b62-6938	17
	9.80	RIFS	Fine roots, roots restrict flow by 10% or less of full flow from 4 o'clock to 6 o'clock	00:02:25	KSWP003817_c21fe9cd-398c-	3
	19.50	JFDL	Joint damaged/chipped, large, clearly through the pipe wall from 6 o'clock to 9 o'clock / Minor Roots	00:03:54	KSWP003817_36c32fb4-a4dc-4	17
	20.80	CCL	Crack circumferential, crack, large, open and there is evidence that it extends through to the outside wall from 3 o'clock to 6 o'clock	00:04:32	KSWP003817_db4cbf4f-896b-4	12
	21.20	EDS	Encrustation deposits, clear diameter is reduced by less than 10% from 3 o'clock to 6 o'clock	00:04:55	KSWP003817_c9bedc18-acc9-4	10
	21.20	CCL	Crack circumferential, crack, large, open and there is evidence that it extends through to the outside wall from 3 o'clock to 6 o'clock	00:05:04	KSWP003817_17864e24-11e9	12
	22.00	JFDL	Joint damaged/chipped, large, clearly through the pipe wall at 9 o'clock / Root	00:05:24	KSWP003817_bf9a678e-ebf6-4	17
	22.00	RIFS	Fine roots, roots restrict flow by 10% or less of full flow at 9 o'clock	00:05:30	KSWP003817_da90fc7a-621a-	3
	33.20	S01 DPS	Dipped pipe, dip 25% or less of pipe diameter, start	00:06:53	KSWP003817_c346b211-c8d1-	1 / 6
	34.10	JFDL	Joint damaged/chipped, large, clearly through the pipe wall from 3 o'clock to 9 o'clock / Infiltration and broken	00:07:24	KSWP003817_700bbb4a-d05f-	17
	34.10	IPM	Infiltration, running (visibly moving) flow from 3 o'clock to 6 o'clock	00:07:30	KSWP003817_adfc3087-874e-	10 / 21
	34.40	S02 DES	Debris silt, small, clear diameter reduced by less than 10%, start	00:07:47	KSWP003817_87ccedcd-31e1-	15
	47.30	GPF	General Photograph, Facing Forward / Pipe going through pipe?	00:10:25	KSWP003817_571327f2-f20b-	
KSWN002192	56.00	IE	Inspection ends, node reference: KSWN002192	00:12:14	KSWP003817_a4fb2681-563a-	

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
10	32.0	2.0	110.0	3.0	2	21.0	0.6	31.0	3.0

Section Pictures - 12/08/2022 - KSWP003817

Town or suburb	Location	Date of inspection	Asset ID	Section No.
Waikanae		**12/08/2022**	**KSWP003817**	**36**

KSWP003817_224e464b-ab95-4ae6-aa2d-987a188d07f9_20220812_112800_348.jpg, 00:00:17, 0.00m (56.00m)
Inspection start, node reference: KSWN002094

KSWP003817_06475611-4031-46c4-9258-8a08b54254d5_20220812_112909_255.jpg, 00:01:29, 3.70m (52.30m)
Crack circumferential, small, visible but not open from 3 o'clock to 9 o'clock

KSWP003817_62066219-8211-4b68-bca1-bb14b017c30f_20220812_112916_188.jpg, 00:01:29, 3.70m (52.30m)
Crack circumferential, small, visible but not open from 3 o'clock to 9 o'clock

KSWP003817_35b78b62-6938-4352-9f91-7300c8ca4902_20220812_113006_929.jpg, 00:02:18, 9.80m (46.20m)
Joint damaged/chipped, large, clearly through the pipe wall from 4 o'clock to 6 o'clock / Roots

Section Pictures - 12/08/2022 - KSWP003817

Town or suburb	Location	Date of inspection	Asset ID	Section No.
Waikanae		**12/08/2022**	**KSWP003817**	**36**

KSWP003817_c21fe9cd-398c-42ed-b7fb-1d5d78366c5d_20220812_113017_759.jpg, 00:02:25, 9.80m (46.20m)
Fine roots, roots restrict flow by 10% or less of full flow from 4 o'clock to 6 o'clock

KSWP003817_36c32fb4-a4dc-41d3-aa9c-aab22b83395a_20220812_113157_910.jpg, 00:03:54, 19.50m (36.50m)
Joint damaged/chipped, large, clearly through the pipe wall from 6 o'clock to 9 o'clock / Minor Roots

KSWP003817_db4cbf4f-896b-4697-8544-55b7a58b3b42_20220812_113238_708.jpg, 00:04:32, 20.80m (35.20m)
Crack circumferential, crack, large, open and there is evidence that it extends through to the outside wall from 3 o'clock to 6 o'clock

KSWP003817_c9bedc18-acc9-4587-be8a-7ff7d5d63b6e_20220812_113306_569.jpg, 00:04:55, 21.20m (34.80m)
Encrustation deposits, clear diameter is reduced by less than 10% from 3 o'clock to 6 o'clock

Section Pictures - 12/08/2022 - KSWP003817

Town or suburb	Location	Date of inspection	Asset ID	Section No.
Waikanae		**12/08/2022**	**KSWP003817**	**36**

KSWP003817_0914ca62-fff3-4eec-9a37-9975186a6ff3_20220812_113311_329.jpg, 00:04:55, 21.20m (34.80m)
Encrustation deposits, clear diameter is reduced by less than 10% from 3 o'clock to 6 o'clock

KSWP003817_17864e24-11e9-4cd5-acf6-a256721788ba_20220812_113319_750.jpg, 00:05:04, 21.20m (34.80m)
Crack circumferential, crack, large, open and there is evidence that it extends through to the outside wall from 3 o'clock to 6 o'clock

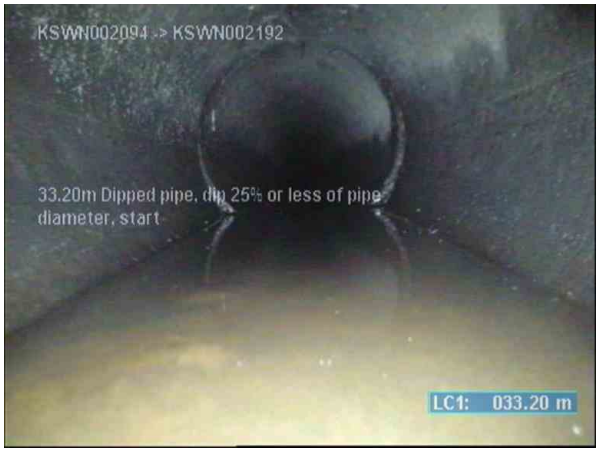
KSWP003817_bf9a678e-ebf6-4e9e-a17c-8ff011637ce3_20220812_113348_222.jpg, 00:05:24, 22.00m (34.00m)
Joint damaged/chipped, large, clearly through the pipe wall at 9 o'clock / Root

KSWP003817_da90fc7a-621a-40ac-8dd4-68883b6b4d57_20220812_113358_896.jpg, 00:05:30, 22.00m (34.00m)
Fine roots, roots restrict flow by 10% or less of full flow at 9 o'clock

Section Pictures - 12/08/2022 - KSWP003817

Town or suburb	Location	Date of inspection	Asset ID	Section No.
Waikanae		**12/08/2022**	**KSWP003817**	**36**

KSWP003817_af5911e6-1802-49a9-9655-90a61d5d830e_20220812_113403_886.jpg, 00:05:30, 22.00m (34.00m)
Fine roots, roots restrict flow by 10% or less of full flow at 9 o'clock



KSWP003817_c346b211-c8d1-4778-881d-df197c90eed6_20220812_113525_551.jpg, 00:06:53, 33.20m (22.80m)
Dipped pipe, dip 25% or less of pipe diameter, start

KSWP003817_700bbb4a-d05f-4d20-bcb1-caed32b5e03b_20220812_113613_212.jpg, 00:07:24, 34.10m (21.90m)
Joint damaged/chipped, large, clearly through the pipe wall from 3 o'clock to 9 o'clock / Infiltration and broken

KSWP003817_adfc3087-874e-45aa-86b4-190dc5edbc04_20220812_113624_055.jpg, 00:07:30, 34.10m (21.90m)
Infiltration, running (visibly moving) flow from 3 o'clock to 6 o'clock

Section Pictures - 12/08/2022 - KSWP003817

Town or suburb	Location	Date of inspection	Asset ID	Section No.
Waikanae		**12/08/2022**	**KSWP003817**	**36**

KSWP003817_87ccedcd-31e1-4b81-b037-d14fae2386ca_20220812_113645_304.jpg, 00:07:47, 34.40m (21.60m)
Debris silt, small, clear diameter reduced by less than 10%, start

KSWP003817_571327f2-f20b-48b4-873b-7e7518a073fb_20220812_113946_888.jpg, 00:10:25, 47.30m (8.70m)
General Photograph, Facing Forward / Pipe going through pipe?

KSWP003817_7ca395ac-03b1-4232-b42e-49f3617e2889_20220812_113954_174.jpg, 00:10:25, 47.30m (8.70m)
General Photograph, Facing Forward / Pipe going through pipe?

KSWP003817_a4fb2681-563a-48bd-83bd-c1cc76266e3d_20220812_114139_453.jpg, 00:12:14, 56.00m (0.00m)
Inspection ends, node reference: KSWN002192

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, LEVIN

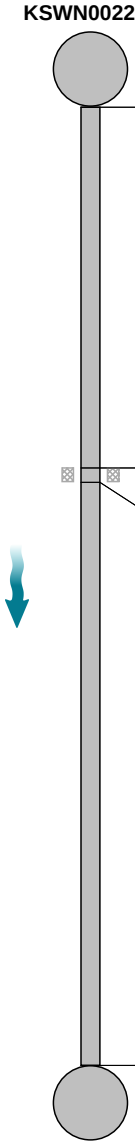
Section Inspection - 11/07/2022 - KSWP004512

Section No.	Asset No.	Contract Number	Date	Time	Weather
60	**KSWP004512**	**2022 C456**	**11/07/2022**	**12:53 pm**	
Town or Suburb	Camera Operator	Operator	Video Reference	Drawing No.	Client
Waikanae		**Jude Booker**			**Kapiti Coast District Council**

Line Length	**48.80 m**	Material	**Concrete pre cast**	Use	**Stormwater**
Setup	**Upstream node**	Shape	**Circular pipe**	Pipe Status	**Original condition**
Surveyed Length	**48.80 m**	Dia/Height	**375 mm**	Currency	
Joint Spacing	**0.00 m**	Width	**0 mm**	Inspection	
Surface	**Chip seal**	Location	**Council road - footpat**	Cleaning Status	

U/S Node	**KSWN002254**	D/S Node	**KSWN002672**
U/S Node Type	**Stormwater manhole**	D/S Node Type	**Stormwater node**
U/S Pipe Depth		D/S Pipe Depth	
U/S Location	**17 Barret Dr**	D/S Location	**Reserve off Barret Dr**

Comments



1:385	m +	OC	Observation	MPEG	Photo	Score
	0.00	IS	Inspection start, node reference: KSWN002254	00:00:12	KSWP004512_78f79a2c-7a30-	
	18.40	S01 SDL	Surface damage, reinforcing exposed or no longer present due to corrosion, severe corrosion or deep voids in pipe wall from 7 o'clock to 10 o'clock	00:02:44	KSWP004512_0244a32f-c0b6-	
	19.10	E01 SDL	Surface damage, reinforcing exposed or no longer present due to corrosion, severe corrosion or deep voids in pipe wall from 7 o'clock to 10 o'clock	00:03:03	KSWP004512_060d03ac-41e2	60
	48.80	IE	Inspection ends, node reference: KSWN002672	00:05:40	KSWP004512_087bebea-fdb2-	

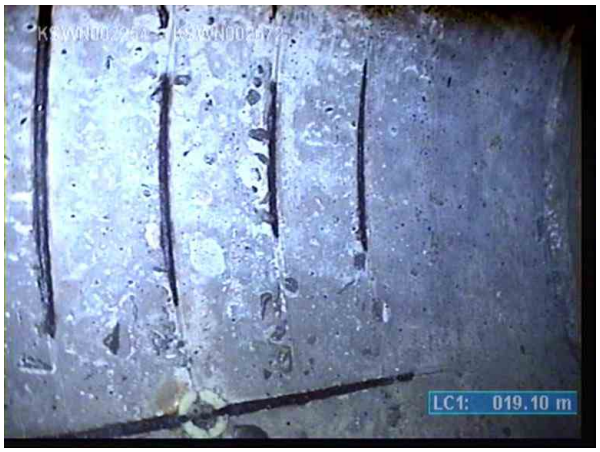
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	0.0	1.2	60.0	3.0	0	0.0	0.0	0.0	1.0

Section Pictures - 11/07/2022 - KSWP004512

Town or Suburb		Date	Asset No.	Section No.
Waikanae		**11/07/2022**	**KSWP004512**	**60**

KSWP004512_78f79a2c-7a30-477a-bdf6-03125de5751b_20220711_125340_084.jpg, 00:00:12, 0.00m
Inspection start, node reference: KSWN002254

KSWP004512_0244a32f-c0b6-44dc-be00-d1b417667dd6_20220711_125619_066.jpg, 00:02:44, 18.40m
Surface damage, reinforcing exposed or no longer present due to corrosion, severe corrosion or deep voids in pipe wall from 7 o'clock to 10 o'clock



KSWP004512_060d03ac-41e2-4c53-bf61-835357fe24d4_20220711_125640_322.jpg, 00:03:03, 19.10m
Surface damage, reinforcing exposed or no longer present due to corrosion, severe corrosion or deep voids in pipe wall from 7 o'clock to 10 o'clock

KSWP004512_087bebea-fdb2-4655-9c99-90565d25f838_20220711_125923_108.jpg, 00:05:40, 48.80m
Inspection ends, node reference: KSWN002672

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, LEVIN

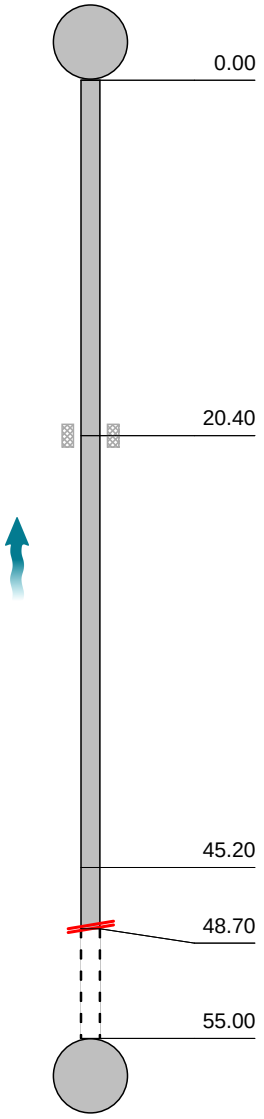
Section Inspection - 9/08/2022 - KSWP004528

Section No.	Asset ID	Operator's Reference	Date of inspection	Time of inspection	Precipitation
4	**KSWP004528**	**c456**	**9/08/2022**	**11:19 am**	
Town or suburb	Name of Coder	Name of Operator	Video volume reference 1		Client
Waikanae	**Jude Booker**	**Jude Booker**	**WK01**		**Kapiti Coast District Council**

Pipe Length	**55.00 m**	Material	**Steel Reinforced Concrete**	Use of Pipeline	**Stormwater**
Setup	**Downstream node**	Shape	**Circular**		
Surveyed Length	**48.70 m**	Height	**225 mm**	Currency	
Joint Spacing	**2.40 m**	Width	**225 mm**	Inspection	**Inspection complete**
Asset owner		Location type	**Within Bushland/parkland**	Cleaning Status	**Light cleaning**

Up node reference	**KSWN002104**	Down node reference	**KSWN002658**
U/S Node Type		D/S Node Type	
Depth at upstream node		Depth at downstream nod	
U/S Location	**14 Victor Grv**	D/S Location	**12 Victor Grv**
General comment	**None**		

KSWN002658



KSWN002104

1:434	m +	OC	Observation	MPEG	Photo	Score
	0.00	IS	Inspection start, node reference: KSWN002658	00:00:12	KSWP004528_e003fdb0-c8ea-	
	20.40	S01 DES	Debris silt, small, clear diameter reduced by less than 10%, start	00:04:14	KSWP004528_3ffb6422-f8c1-4	15
	45.20	GC	General comment / Water level high going into stream	00:08:11	KSWP004528_519b205c-9559	
	48.70	IA	Inspection abandoned from 12 o'clock to 12 o'clock / Underwater	00:09:27	KSWP004528_b03fe420-b5d1-	
	55.00		End of pipe			

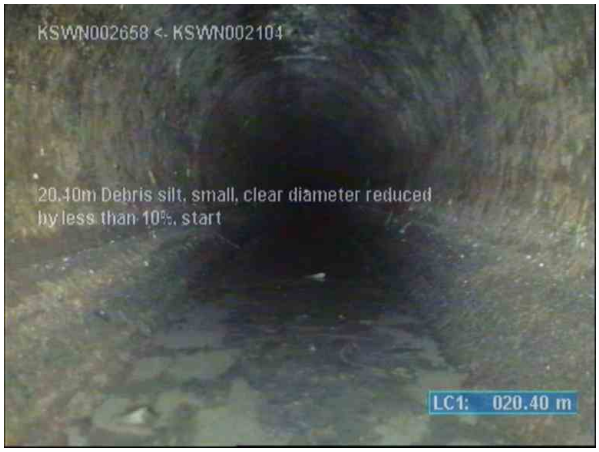
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Anzel
, LEVIN

Section Pictures - 9/08/2022 - KSWP004528

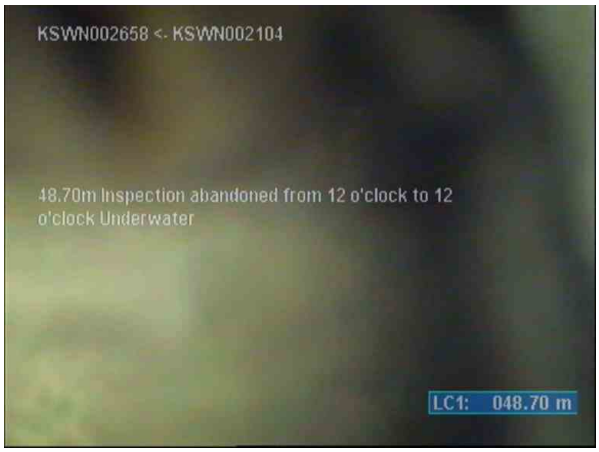
Town or suburb	Location	Date of inspection	Asset ID	Section No.
Waikanae		**9/08/2022**	**KSWP004528**	**4**

KSWP004528_e003fdb0-c8ea-45e4-96ca-35ff473e65db_20220809_111906_286.jpg, 00:00:12, 0.00m (48.70m)
Inspection start, node reference: KSWN002658



KSWP004528_3ffb6422-f8c1-4fb4-8ea1-b66669cf51d5_20220809_112312_556.jpg, 00:04:14, 20.40m (28.30m)
Debris silt, small, clear diameter reduced by less than 10%, start

KSWP004528_519b205c-9559-4adf-97c9-13e5ab0f0c8c_20220809_112722_172.jpg, 00:08:11, 45.20m (3.50m)
General comment / Water level high going into stream



KSWP004528_b03fe420-b5d1-4e04-a1e0-91baddc97d17_20220809_112904_567.jpg, 00:09:27, 48.70m (0.00m)
Inspection abandoned from 12 o'clock to 12 o'clock / Underwater