

OIR: 2324/809

6 March 2024

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████████████████████

Tēnā koe ██████,

**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  
0.375 from Major Durie**

**KSWP012623  
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  
0.375 from Hastings St  
0.375 from 1 Marewa Pl  
14 Hastings St culvert dia not specified**

**KSWP003713  
KSWP004547  
KSWP004512  
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<sup>1</sup>

***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. 14 Hastings St.	KSWP004512 KSWP008721	CCTV-ed 11.07.2022 refer to KSWP012623 above.
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### 3. Top Drain

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

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.

<sup>1</sup> Contractor scheduled to clean out line by 06.2024

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](mailto:paul.busing@kapiticoast.govt.nz) if you wish to arrange a meeting.

Ngā mihi,



**Sean Mallon**

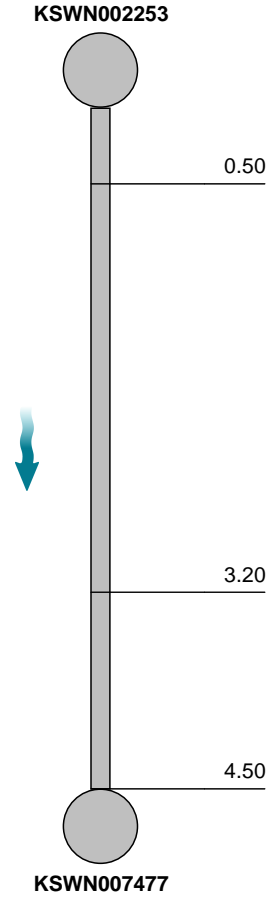
Group Manager Infrastructure and Asset Management  
Te Kaihautū Ratonga Pakiaka

## Section Inspection - 8/07/2022 - KSWP003634

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

Line Length <b>4.50 m</b>	Material <b>Concrete pre cast</b>	Use <b>Stormwater</b>
Setup <b>Upstream node</b>	Shape <b>Circular pipe</b>	Pipe Status <b>Original condition</b>
Surveyed Length <b>4.00 m</b>	Dia/Height <b>375 mm</b>	Currency
Joint Spacing <b>0.00 m</b>	Width <b>0 mm</b>	Inspection
Surface <b>Chip seal</b>	Location <b>Council road - carriageway</b>	Cleaning Status
U/S Node <b>KSWN002253</b>	D/S Node <b>KSWN007477</b>	
U/S Node Type <b>Stormwater manhole</b>	D/S Node Type <b>Stormwater node</b>	
U/S Pipe Depth	D/S Pipe Depth	
U/S Location <b>Barret Dr</b>	D/S Location <b>Barret Dr</b>	

Comments

1:50	m +	OC	Observation	MPEG	Photo	Score
						
	0.50	IS	Inspection start, node reference: KSWN002253	00:00:18	KSWP003 634_1ba1 942e-786e	
	3.20	MC	Material change / Bosspipe	00:01:17	KSWP003 634_2326 6daf-560e-	
	4.50	IE	Inspection ends, node reference: KSWN007477	00:02:28	KSWP003 634_e805 4480-66f1-	

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 <b>Waikanae</b>		Date <b>8/07/2022</b>	Asset No. <b>KSWP003634</b>	Section No. <b>51</b>
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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

## Section Inspection - 11/08/2022 - KSWP003713

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

Pipe Length <b>48.20 m</b>	Material <b>Steel Reinforced Concrete</b>	Use of Pipeline <b>Stormwater</b>
Setup <b>Upstream node</b>	Shape <b>Circular</b>	Currency
Surveyed Length <b>48.10 m</b>	Height <b>525 mm</b>	Inspection <b>Inspection complete</b>
Joint Spacing <b>2.40 m</b>	Width <b>525 mm</b>	Cleaning Status <b>Light cleaning</b>
Asset owner	Location type <b>Under a road</b>	
Up node reference <b>KSWN002237</b>	Down node reference <b>KSWN002670</b>	
U/S Node Type	D/S Node Type	
Depth at upstream node	Depth at downstream node	
U/S Location <b>177 Tutere St</b>	D/S Location <b>Lagoon</b>	
General comment <b>None</b>		

1:380	m +	OC	Observation	MPEG	Photo	Score																																										
<div style="display: flex; align-items: flex-start;"> <div style="flex: 1;"> </div> <div style="flex: 2;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">0.10</td> <td style="width: 5%;">IS</td> <td style="width: 45%;">Inspection start, node reference: KSWN002237</td> <td style="width: 10%;">00:00:10</td> <td style="width: 10%;">KSWP003 713_8fcae d6d-e316-</td> <td style="width: 15%;"></td> </tr> <tr> <td>32.80</td> <td>LO</td> <td>The lateral is open at 9 o'clock / Ok</td> <td>00:03:14</td> <td>KSWP003 713_ba39 b8cc-c631-</td> <td></td> </tr> <tr> <td>45.60</td> <td>JFDL</td> <td>Joint damaged/chipped, large, clearly through the pipe wall from 12 o'clock to 12 o'clock</td> <td>00:04:25</td> <td>KSWP003 713_bdd9 7187-9c4c</td> <td>17</td> </tr> <tr> <td>45.60</td> <td>DIS</td> <td>Gap separation width 20mm</td> <td>00:04:31</td> <td>KSWP003 713_4a77 d837-2bba</td> <td>36</td> </tr> <tr> <td>45.60</td> <td>LD</td> <td>Line deviates down</td> <td>00:04:37</td> <td>KSWP003 713_71c9e dd4-90be-</td> <td></td> </tr> <tr> <td>45.60</td> <td>RIFS</td> <td>Fine roots, roots restrict flow by 10% or less of full flow from 9 o'clock to 3 o'clock</td> <td>00:04:52</td> <td>KSWP003 713_9041 9e6e-c99a</td> <td>3</td> </tr> <tr> <td>48.20</td> <td>IE</td> <td>Inspection ends, node reference: KSWN002670</td> <td>00:05:25</td> <td>KSWP003 713_0817 0dd5-a2ee</td> <td></td> </tr> </table> </div> </div>							0.10	IS	Inspection start, node reference: KSWN002237	00:00:10	KSWP003 713_8fcae d6d-e316-		32.80	LO	The lateral is open at 9 o'clock / Ok	00:03:14	KSWP003 713_ba39 b8cc-c631-		45.60	JFDL	Joint damaged/chipped, large, clearly through the pipe wall from 12 o'clock to 12 o'clock	00:04:25	KSWP003 713_bdd9 7187-9c4c	17	45.60	DIS	Gap separation width 20mm	00:04:31	KSWP003 713_4a77 d837-2bba	36	45.60	LD	Line deviates down	00:04:37	KSWP003 713_71c9e dd4-90be-		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	KSWP003 713_9041 9e6e-c99a	3	48.20	IE	Inspection ends, node reference: KSWN002670	00:05:25	KSWP003 713_0817 0dd5-a2ee	
0.10	IS	Inspection start, node reference: KSWN002237	00:00:10	KSWP003 713_8fcae d6d-e316-																																												
32.80	LO	The lateral is open at 9 o'clock / Ok	00:03:14	KSWP003 713_ba39 b8cc-c631-																																												
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45.60	DIS	Gap separation width 20mm	00:04:31	KSWP003 713_4a77 d837-2bba	36																																											
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48.20	IE	Inspection ends, node reference: KSWN002670	00:05:25	KSWP003 713_0817 0dd5-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-a253-86fee32cceed\_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



## Section Inspection - 29/11/2023 - KSWP003751

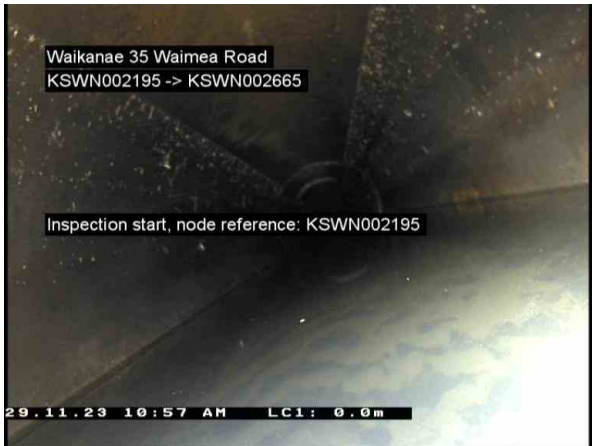
Section No. <b>42</b>	Asset ID <b>KSWP003751</b>	Operator's Reference	Date of inspection <b>29/11/2023</b>	Time of inspection <b>10:57 am</b>	Precipitation <b>No precipitation</b>
Town or suburb <b>Waikanae</b>	Name of Coder <b>Jude Booker</b>	Name of Operator <b>Jude Booker</b>	Video volume reference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

Pipe Length <b>15.40 m</b>	Material <b>Steel Reinforced Concrete</b>	Use of Pipeline <b>Stormwater</b>
Setup <b>Upstream node</b>	Shape <b>Circular</b>	Purpose of inspection <b>Routine inspection of condition</b>
Surveyed Length <b>15.40 m</b>	Height <b>375 mm</b>	Operation of Pipeline <b>Gravity</b>
Joint Spacing <b>2.40 m</b>	Width <b>375 mm</b>	Inspection <b>Inspection complete</b>
Asset owner	Location type <small>Under property with buildings (Developed)</small>	Cleaning Status <b>Heavy cleaned</b>
Up node reference <b>KSWN002195</b>	Down node reference <b>KSWN002665</b>	
U/S Node Type <b>Sewer Manhole</b>	D/S Node Type <b>Stormwater Outlet</b>	
Depth at upstream node	Depth at downstream nod	
U/S Location <b>35 Waimea Road</b>	D/S Location <b>35 Waimea Road</b>	
General comment <b>Contract Number - 430</b>		

1:122	m +	OC	Observation	MPEG	Photo	Score			
<b>KSWN002195</b>									
	0.00	IS	Inspection start, node reference: KSWN002195	00:00:00	42_KSWP 003751_1 95.jpg				
	3.00	PHS	Pipe holed, the hole has been repaired at 12 o'clock / repaired	00:02:26	42_KSWP 003751_1 96.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_KSWP 003751_1 97.jpg	7			
	4.50	S01 DPM	Dipped pipe, dip 25% to 50% of the pipe diameter, start	00:03:10	42_KSWP 003751_1 98.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_KSWP 003751_1 99.jpg,42_	25			
	4.70	GPU	General Photograph, Facing Up	00:03:48	42_KSWP 003751_2 01.jpg				
	11.70	S02 LOVUW	Loss of Vision, Under Water	00:05:45	42_KSWP 003751_2 02.jpg				
	15.40	F01 DPM	Dipped pipe, dip 25% to 50% of the pipe diameter, end	00:06:36	42_KSWP 003751_2 03.jpg	6 / 35			
	15.40	F02 LOVUW	Loss of Vision, Under Water	00:06:39	42_KSWP 003751_2 04.jpg				
	15.40	IE	Inspection ends, node reference: KSWN002665	00:06:46	42_KSWP 003751_2 05.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

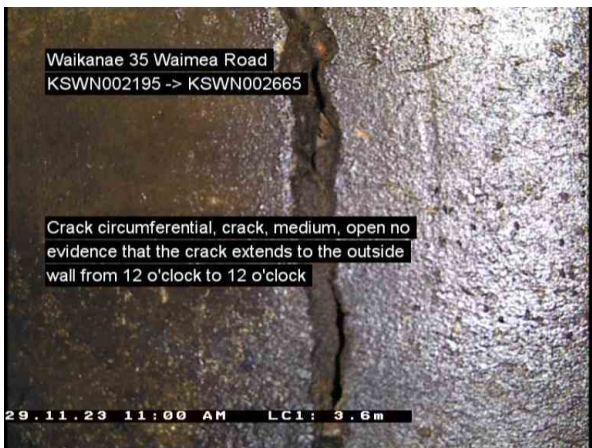
Town or suburb	Location	Date of inspection	Asset ID	Section No.
Waikanae	35 Waimea Road	29/11/2023	KSWP003751	42



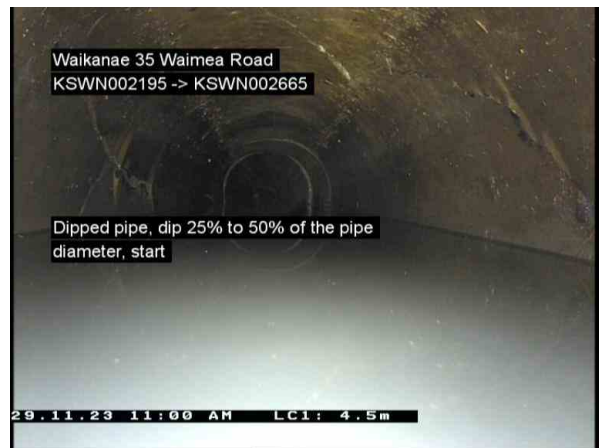
42\_KSWP003751\_195.jpg, 00:00:00, 0.00m (15.40m)  
Inspection start, node reference: KSWN002195



42\_KSWP003751\_196.jpg, 00:02:26, 3.00m (12.40m)  
Pipe holed, the hole has been repaired at 12 o'clock / repaired



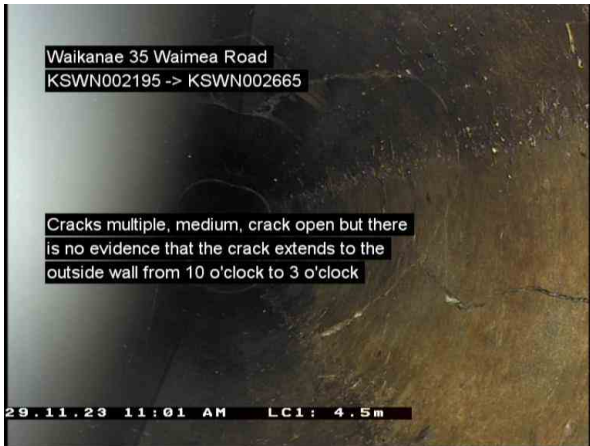
42\_KSWP003751\_197.jpg, 00:02:53, 3.60m (11.80m)  
Crack circumferential, crack, medium, open no evidence that the crack extends to the outside wall from 12 o'clock to 12 o'clock



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



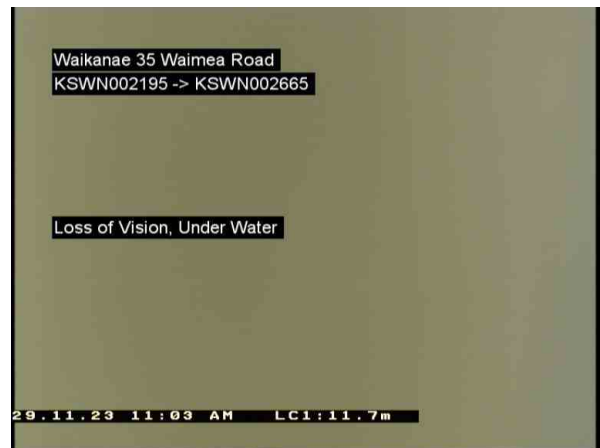
42\_KSWP003751\_199.jpg, 00:03:25, 4.50m (10.90m)  
Cracks multiple, medium, crack open but there is no evidence that the crack extends to the outside wall from 10 o'clock to 3 o'clock



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



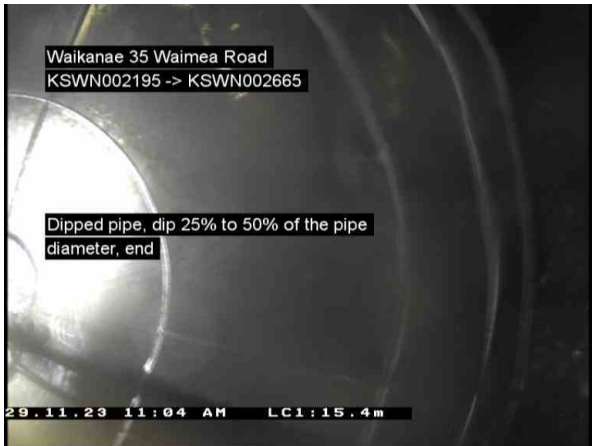
42\_KSWP003751\_201.jpg, 00:03:48, 4.70m (10.70m)  
General Photograph, Facing Up



42\_KSWP003751\_202.jpg, 00:05:45, 11.70m (3.70m)  
Loss of Vision, Under Water

## Section Pictures - 29/11/2023 - KSWP003751

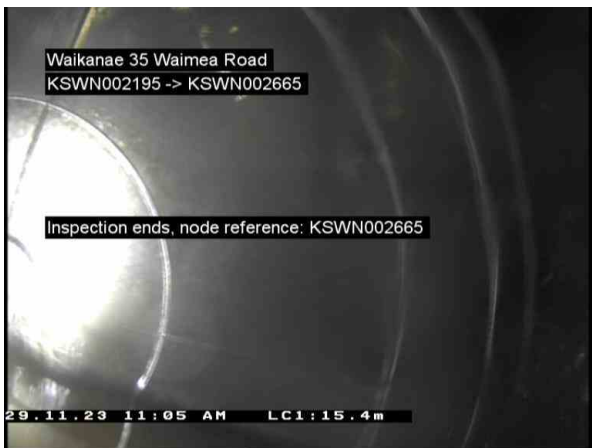
Town or suburb <b>Waikanae</b>	Location <b>35 Waimea Road</b>	Date of inspection <b>29/11/2023</b>	Asset ID <b>KSWP003751</b>	Section No. <b>42</b>
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42\_KSWP003751\_203.jpg, 00:06:36, 15.40m (0.00m)  
Dipped pipe, dip 25% to 50% of the pipe diameter, 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

## Section Inspection - 29/07/2022 - KSWP003760

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

Pipe Length <b>55.40 m</b>	Material <b>Steel Reinforced Concrete</b>	Use of Pipeline <b>Stormwater</b>
Setup <b>Upstream node</b>	Shape <b>Circular</b>	Currency
Surveyed Length <b>55.40 m</b>	Height <b>525 mm</b>	Inspection <b>Inspection complete</b>
Joint Spacing <b>2.40 m</b>	Width <b>525 mm</b>	Cleaning Status <b>Light cleaning</b>
Asset owner	Location type <b>Under a footway beside road</b>	
Up node reference <b>KSWN002199</b>	Down node reference <b>KSWN002666</b>	
U/S Node Type	D/S Node Type <b>Stormwater Outlet</b>	
Depth at upstream node	Depth at downstream node	
U/S Location <b>4 Queens Rd</b>	D/S Location <b>10 Queens Rd</b>	
General comment <b>None</b>		

1:437	m +	OC	Observation	MPEG	Photo	Score			
<b>KSWN002199</b>									
	0.00	IS	Inspection start, node reference: KSWN002199	00:00:12	KSWP003 760_7677c 142-fac2-4				
	55.40	IE	Inspection ends, node reference: KSWN002666	00:04:25	KSWP003 760_eb9b 8076-ced0				
<b>KSWN002666</b>									
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

## Section Inspection - 1/07/2022 - KSWP003815

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

Line Length <b>52.50 m</b>	Material <b>Concrete pre cast</b>	Use <b>Stormwater</b>
Setup <b>Upstream node</b>	Shape <b>Circular pipe</b>	Pipe Status <b>Original condition</b>
Surveyed Length <b>48.50 m</b>	Dia/Height <b>300 mm</b>	Currency
Joint Spacing <b>0.00 m</b>	Width <b>0 mm</b>	Inspection
Surface <b>Chip seal</b>	Location <b>Council road - carriageway</b>	Cleaning Status
U/S Node <b>KSWN001821</b>	D/S Node <b>KSWN009831</b>	
U/S Node Type <b>Stormwater manhole</b>	D/S Node Type <b>Stormwater miscellaneous</b>	
U/S Pipe Depth	D/S Pipe Depth	
U/S Location <b>38 Eruini St</b>	D/S Location <b>Eruini St</b>	
Comments <b>DS NODE IS AN OUTLET</b>		

1:414	m +	OC	Observation	MPEG	Photo	Score
<b>KSWN001821</b>						
0.00		IS	Inspection start, node reference: KSWN001821	00:00:10	KSWP003 815_5559 1706-00c2	
16.20		GC	General comment / High water level going to creek	00:03:52	KSWP003 815_6490f ce0-0345-	
48.50		IA	Inspection abandoned from 12 o'clock to 12 o'clock / High water, running into creek	00:11:27	KSWP003 815_c7aa7 907-fc96-4	
52.50			End of pipe			
<b>KSWN009831</b>						

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 <b>Waikanae</b>		Date <b>1/07/2022</b>	Asset No. <b>KSWP003815</b>	Section No. <b>13</b>
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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

## Section Inspection - 12/08/2022 - KSWP003817

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

Pipe Length <b>56.00 m</b>	Material <b>Steel Reinforced Concrete</b>	Use of Pipeline <b>Stormwater</b>
Setup <b>Upstream node</b>	Shape <b>Circular</b>	Currency
Surveyed Length <b>56.00 m</b>	Height <b>225 mm</b>	Inspection <b>Inspection complete</b>
Joint Spacing <b>2.40 m</b>	Width <b>225 mm</b>	Cleaning Status <b>Light cleaning</b>
Asset owner	Location type <b>Under a road</b>	
Up node reference <b>KSWN002094</b>	Down node reference <b>KSWN002192</b>	
U/S Node Type	D/S Node Type	
Depth at upstream node	Depth at downstream nod	
U/S Location <b>45 Waimea Rd</b>	D/S Location <b>41 Waimea Rd</b>	
General comment <b>None</b>		

1:441	m +	OC	Observation	MPEG	Photo	Score			
	0.00	IS	Inspection start, node reference: KSWN002094	00:00:17	KSWP003 817_224e 464b-ab95				
	3.70	CCS	Crack circumferential, small, visible but not open from 3 o'clock to 9 o'clock	00:01:29	KSWP003 817_0647 5611-4031	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	KSWP003 817_35b7 8b62-6938	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	KSWP003 817_c21fe 9cd-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	KSWP003 817_36c32 fb4-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	KSWP003 817_db4cb f4f-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	KSWP003 817_c9bed c18-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	KSWP003 817_1786 4e24-11e9	12			
	22.00	JFDL	Joint damaged/chipped, large, clearly through the pipe wall at 9 o'clock / Root	00:05:24	KSWP003 817_bf9a6 78e-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	KSWP003 817_da90f c7a-621a-	3			
	33.20	S01 DPS	Dipped pipe, dip 25% or less of pipe diameter, start	00:06:53	KSWP003 817_c346b 211-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	KSWP003 817_700b bb4a-d05f-	17			
	34.10	IPM	Infiltration, running (visibly moving) flow from 3 o'clock to 6 o'clock	00:07:30	KSWP003 817_adfc3 087-874e-	10 / 21			
	34.40	S02 DES	Debris silt, small, clear diameter reduced by less than 10%, start	00:07:47	KSWP003 817_87cce dcd-31e1-	15			
	47.30	GPF	General Photograph, Facing Forward / Pipe going through pipe?	00:10:25	KSWP003 817_5713 27f2-f20b-				
	56.00	IE	Inspection ends, node reference: KSWN002192	00:12:14	KSWP003 817_a4fb2 681-563a-				
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**

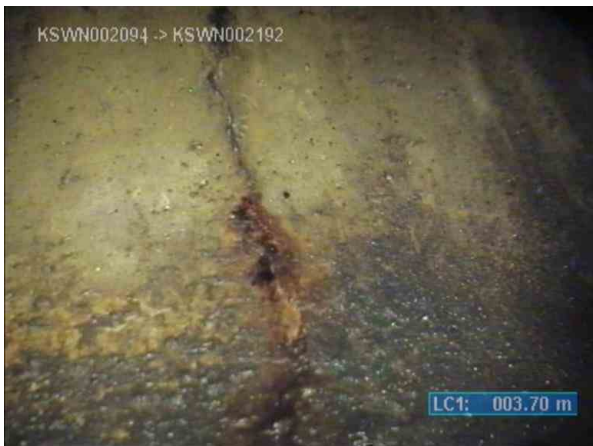
Town or suburb	Location	Date of inspection	Asset ID	Section No.
Waikanae		12/08/2022	KSWP003817	36



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 <b>Waikanae</b>	Location	Date of inspection <b>12/08/2022</b>	Asset ID <b>KSWP003817</b>	Section No. <b>36</b>
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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

## Section Inspection - 11/07/2022 - KSWP004512

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

Line Length <b>48.80 m</b>	Material <b>Concrete pre cast</b>	Use <b>Stormwater</b>
Setup <b>Upstream node</b>	Shape <b>Circular pipe</b>	Pipe Status <b>Original condition</b>
Surveyed Length <b>48.80 m</b>	Dia/Height <b>375 mm</b>	Currency
Joint Spacing <b>0.00 m</b>	Width <b>0 mm</b>	Inspection
Surface <b>Chip seal</b>	Location <b>Council road - footpat</b>	Cleaning Status
U/S Node <b>KSWN002254</b>	D/S Node <b>KSWN002672</b>	
U/S Node Type <b>Stormwater manhole</b>	D/S Node Type <b>Stormwater node</b>	
U/S Pipe Depth	D/S Pipe Depth	
U/S Location <b>17 Barret Dr</b>	D/S Location <b>Reserve off Barret Dr</b>	

Comments

1:385	m +	OC	Observation	MPEG	Photo	Score
<b>KSWN002254</b>						
	0.00	IS	Inspection start, node reference: KSWN002254	00:00:12	KSWP004 512_78f79 a2c-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	KSWP004 512_0244 a32f-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	KSWP004 512_060d 03ac-41e2	60
	48.80	IE	Inspection ends, node reference: KSWN002672	00:05:40	KSWP004 512_087b ebea-fdb2-	
<b>KSWN002672</b>						

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 <b>Waikanae</b>		Date <b>11/07/2022</b>	Asset No. <b>KSWP004512</b>	Section No. <b>60</b>
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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

## Section Inspection - 9/08/2022 - KSWP004528

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

Pipe Length <b>55.00 m</b>	Material <b>Steel Reinforced Concrete</b>	Use of Pipeline <b>Stormwater</b>
Setup <b>Downstream node</b>	Shape <b>Circular</b>	Currency
Surveyed Length <b>48.70 m</b>	Height <b>225 mm</b>	Inspection <b>Inspection complete</b>
Joint Spacing <b>2.40 m</b>	Width <b>225 mm</b>	Cleaning Status <b>Light cleaning</b>
Asset owner	Location type <b>Within Bushland/parkland</b>	
Up node reference <b>KSWN002104</b>	Down node reference <b>KSWN002658</b>	
U/S Node Type	D/S Node Type	
Depth at upstream node	Depth at downstream nod	
U/S Location <b>14 Victor Grv</b>	D/S Location <b>12 Victor Grv</b>	
General comment <b>None</b>		

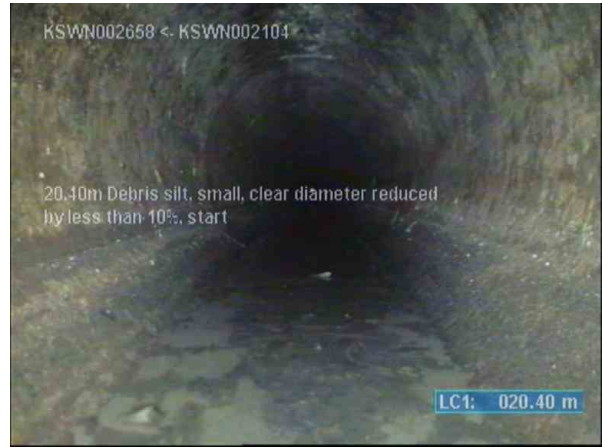
1:434	m +	OC	Observation	MPEG	Photo	Score																														
<div style="display: flex; align-items: flex-start;"> <div style="flex: 1;"> </div> <div style="flex: 2;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">0.00</td> <td style="width: 5%;">IS</td> <td style="width: 45%;">Inspection start, node reference: KSWN002658</td> <td style="width: 10%;">00:00:12</td> <td style="width: 10%;">KSWP004 528_e003f db0-c8ea-</td> <td style="width: 15%;"></td> </tr> <tr> <td>20.40</td> <td>S01 DES</td> <td>Debris silt, small, clear diameter reduced by less than 10%, start</td> <td>00:04:14</td> <td>KSWP004 528_3ffb6 422-f8c1-4</td> <td>15</td> </tr> <tr> <td>45.20</td> <td>GC</td> <td>General comment / Water level high going into stream</td> <td>00:08:11</td> <td>KSWP004 528_519b 205c-9559</td> <td></td> </tr> <tr> <td>48.70</td> <td>IA</td> <td>Inspection abandoned from 12 o'clock to 12 o'clock / Underwater</td> <td>00:09:27</td> <td>KSWP004 528_b03fe 420-b5d1-</td> <td></td> </tr> <tr> <td>55.00</td> <td></td> <td>End of pipe</td> <td></td> <td></td> <td></td> </tr> </table> </div> </div>							0.00	IS	Inspection start, node reference: KSWN002658	00:00:12	KSWP004 528_e003f db0-c8ea-		20.40	S01 DES	Debris silt, small, clear diameter reduced by less than 10%, start	00:04:14	KSWP004 528_3ffb6 422-f8c1-4	15	45.20	GC	General comment / Water level high going into stream	00:08:11	KSWP004 528_519b 205c-9559		48.70	IA	Inspection abandoned from 12 o'clock to 12 o'clock / Underwater	00:09:27	KSWP004 528_b03fe 420-b5d1-		55.00		End of pipe			
0.00	IS	Inspection start, node reference: KSWN002658	00:00:12	KSWP004 528_e003f db0-c8ea-																																
20.40	S01 DES	Debris silt, small, clear diameter reduced by less than 10%, start	00:04:14	KSWP004 528_3ffb6 422-f8c1-4	15																															
45.20	GC	General comment / Water level high going into stream	00:08:11	KSWP004 528_519b 205c-9559																																
48.70	IA	Inspection abandoned from 12 o'clock to 12 o'clock / Underwater	00:09:27	KSWP004 528_b03fe 420-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																											

## Section Pictures - 9/08/2022 - KSWP004528

Town or suburb <b>Waikanae</b>	Location	Date of inspection <b>9/08/2022</b>	Asset ID <b>KSWP004528</b>	Section No. <b>4</b>
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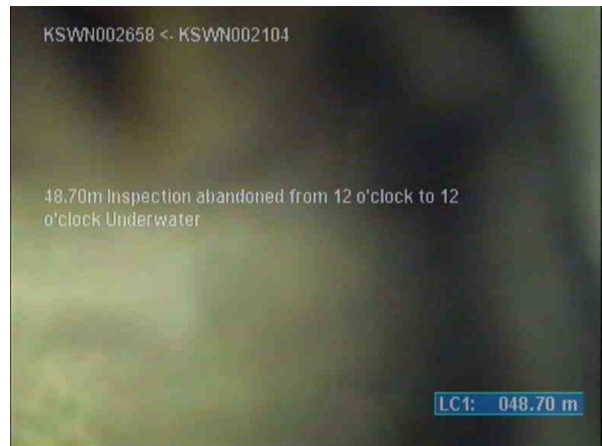
KSWP004528\_e003fdb0-c8ea-45e4-96ca-35ff473e65db\_20220809\_111906\_286.jpg, 00:00:12, 0.00m (48.70m)  
Inspection start, node reference: KSWN002658



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