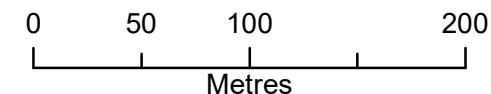


Environment Agency  
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AL7 1HE



### Legend

- Main Rivers
- Site location

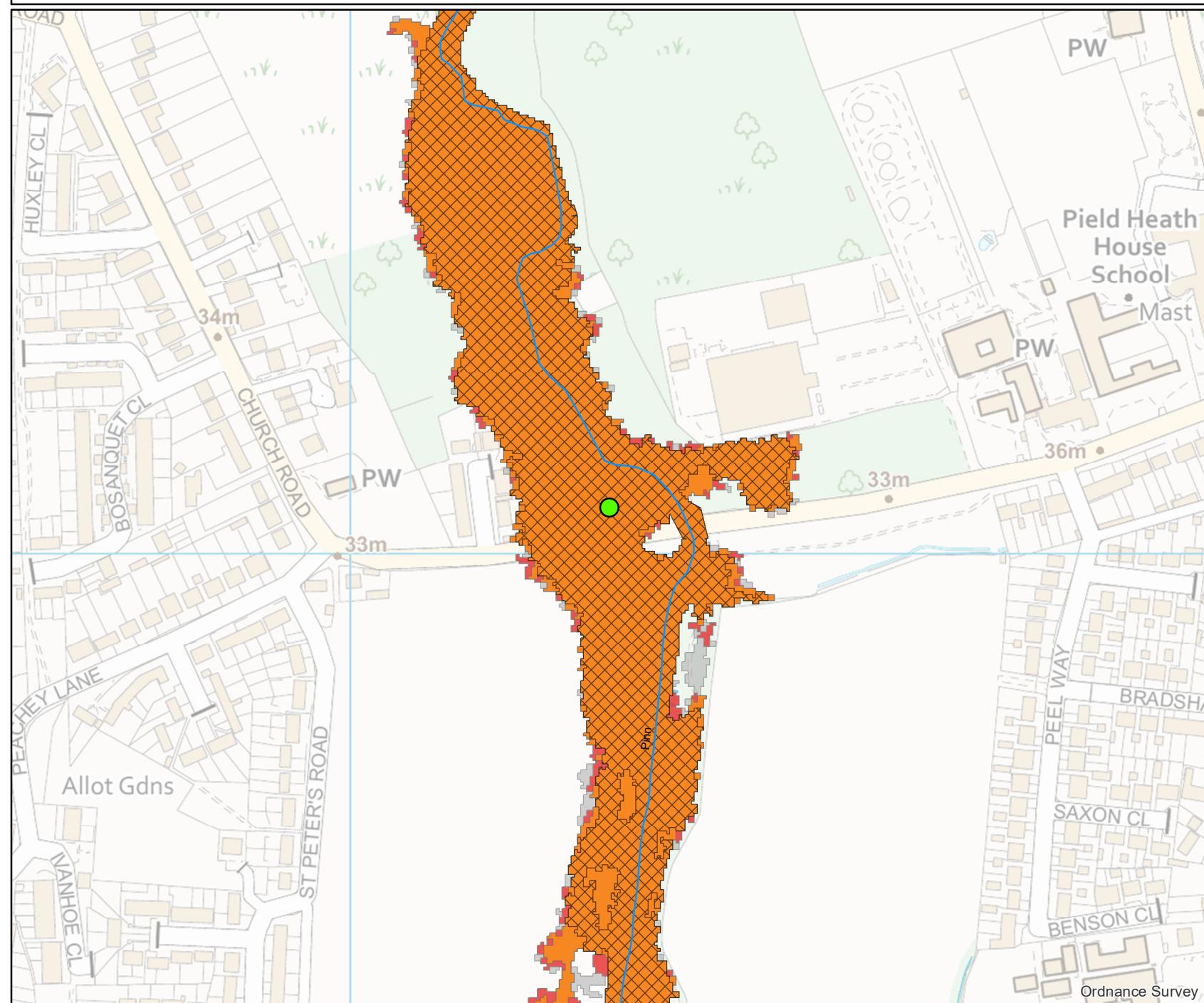
### Defended Flood Outlines

- 1 in 2 year (50%) Defended
- 1 in 5 year (20%) Defended
- 1 in 10 year (10%) Defended
- 1 in 20 year (5%) Defended

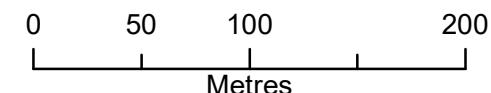
The data in this map has been extracted from the River Pinn Mapping Study (JBA, 2015). This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment. Modelled outlines take into account catchment wide defences.

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### Legend

- Main Rivers
- Site location

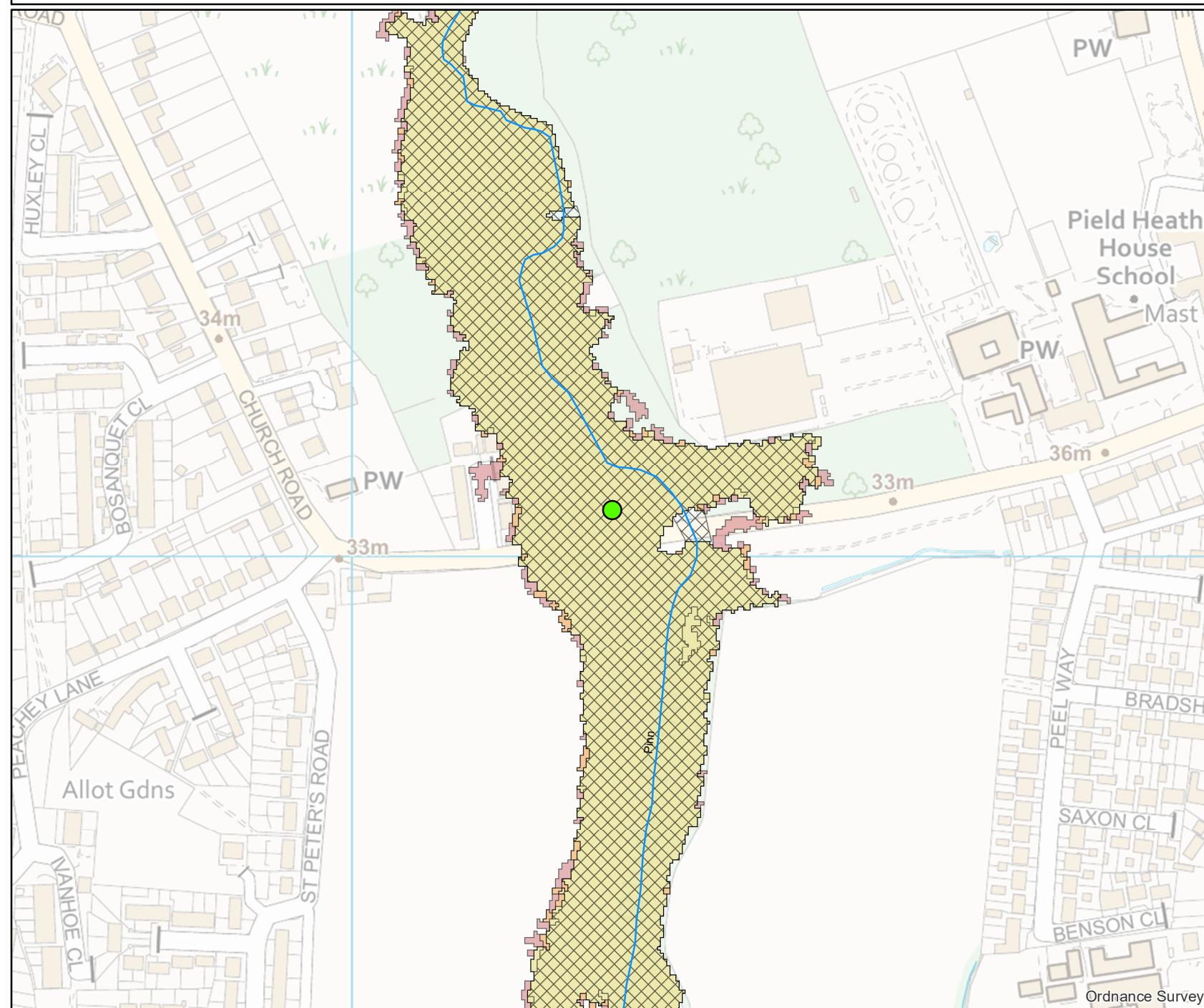
### Defended Flood Outlines



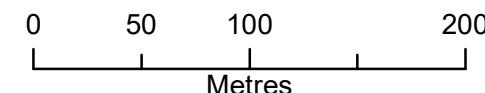
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### Legend

- Main Rivers
- Site location

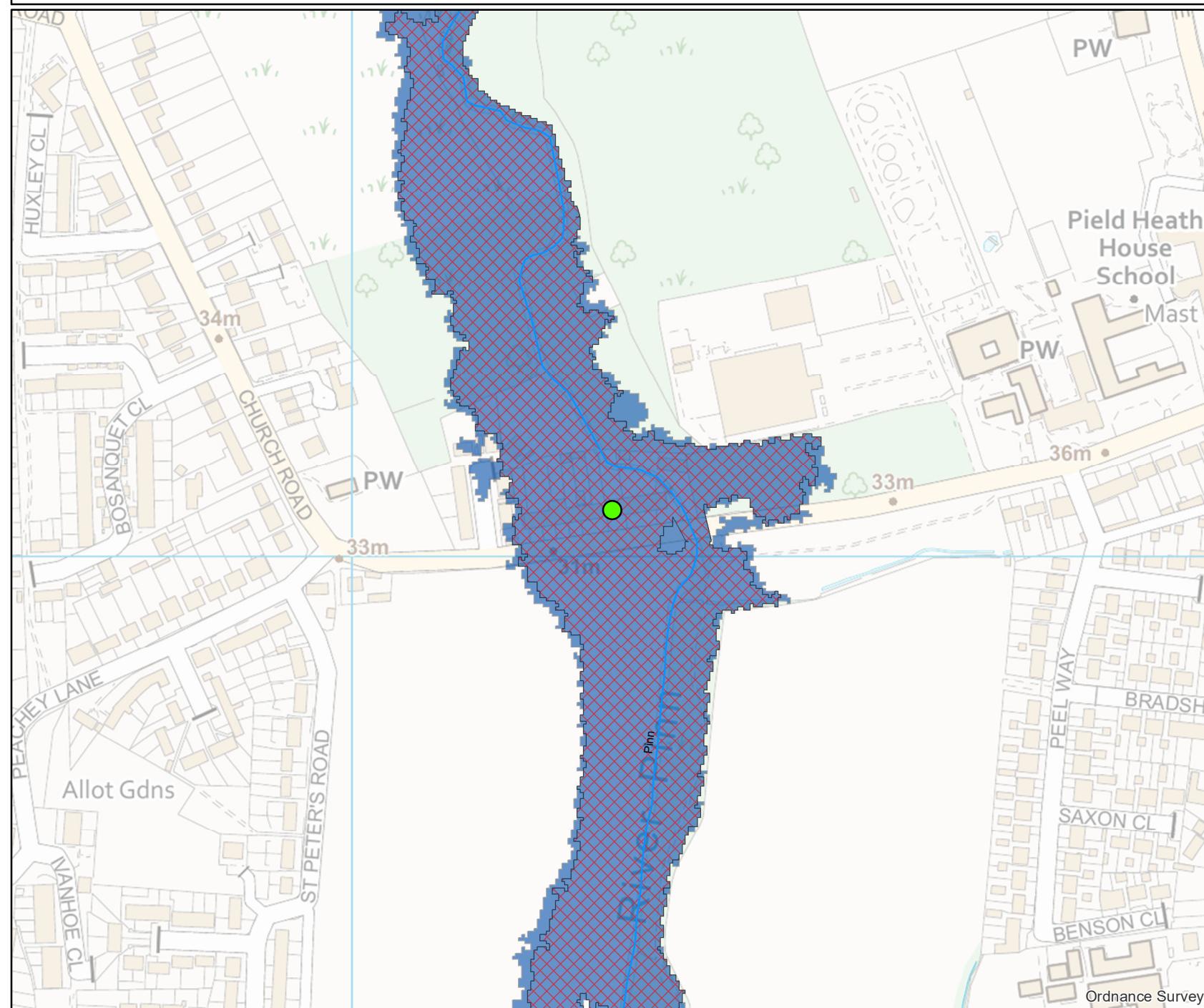
### Defended Flood Outlines

	1 in 100 year + 20% (*CC) Defended
	1 in 100 year + 25% (*CC) Defended
	1 in 100 year + 35% (*CC) Defended
	1 in 100 year + 70% (*CC) Defended

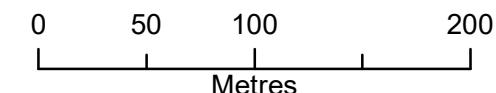
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### Legend

Main Rivers

Site location

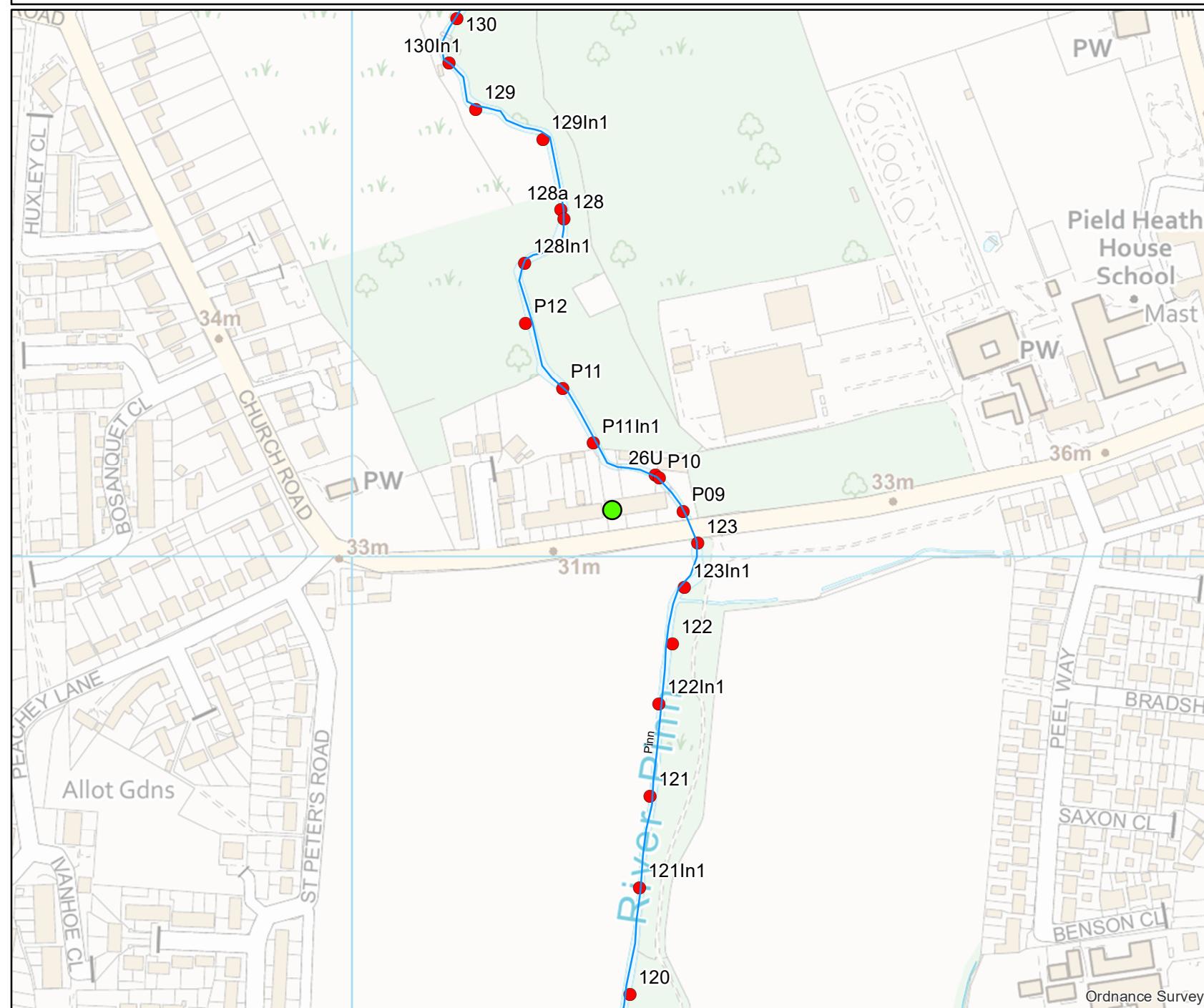
### Defended Flood Outlines

- 1 in 250 year (0.4%) Defended
- 1 in 1000 year (0.1%) Defended

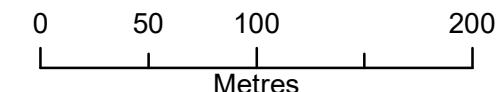
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### Legend

Main Rivers

Site location

### 1D Node Results

Nodes

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**Environment Agency ref: HNL 274674 BC**

The following information has been extracted from the River Pinn Mapping Study (JBA, 2015)

Flood risk data requests including an allowance for climate change will be based on the 1 in 100 flood plus 20% allowance for climate change, unless otherwise stated. You should refer to 'Flood risk assessments: climate change allowances' to check if this allowance is still appropriate for the type of development you are proposing and its location. You may need to undertake further assessment of future flood risk using different allowances to ensure your assessment of future flood risk is based on best available evidence.

<https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances>

**Caution:**

This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites across the entire catchment.

All flood levels are given in metres Above Ordnance Datum (mAOD)

All flows are given in cubic metres per second (cumecs)

**MODELLED FLOOD LEVEL**

Node Label	Easting	Northing	Return Period													
			2 yr	5 yr	10 yr	20 yr	30 yr	50 yr	75 yr	100 yr	100yr + 20%	100yr + 25%	100yr + 35%	100yr + 70%	250 yr	1000yr
130	506068	182348	30.86	31.05	31.13	31.19	31.22	31.26	31.29	31.31	31.36	31.38	31.41	31.48	31.39	31.55
130In1	506063	182320	30.84	31.02	31.10	31.16	31.19	31.22	31.25	31.27	31.31	31.32	31.34	31.39	31.33	31.43
129	506080	182290	30.83	31.01	31.10	31.16	31.19	31.23	31.26	31.28	31.33	31.35	31.37	31.45	31.36	31.50
129In1	506124	182270	30.79	30.97	31.07	31.15	31.18	31.22	31.24	31.26	31.30	31.31	31.32	31.36	31.32	31.39
128a	506135	182224	30.74	30.93	31.04	31.12	31.16	31.21	31.24	31.27	31.32	31.34	31.36	31.43	31.35	31.49
128	506138	182219	30.72	30.90	31.01	31.09	31.13	31.18	31.22	31.24	31.30	31.31	31.33	31.40	31.32	31.45
128In1	506112	182190	30.68	30.86	30.97	31.05	31.09	31.14	31.18	31.20	31.26	31.27	31.29	31.36	31.28	31.42
P12	506113	182151	30.65	30.83	30.94	31.01	31.04	31.09	31.12	31.14	31.20	31.21	31.23	31.29	31.22	31.34
P11	506137	182109	30.61	30.81	30.93	31.00	31.04	31.09	31.12	31.14	31.19	31.20	31.22	31.29	31.21	31.33
P11In1	506157	182074	30.57	30.79	30.91	30.98	31.02	31.06	31.08	31.10	31.15	31.16	31.17	31.22	31.16	31.26
26U	506197	182053	30.51	30.74	30.88	30.98	31.03	31.08	31.12	31.14	31.20	31.21	31.23	31.30	31.22	31.34
P10	506199	182051	30.35	30.59	30.76	30.92	30.98	31.05	31.09	31.12	31.18	31.19	31.21	31.28	31.20	31.33
P09	506215	182029	30.27	30.49	30.63	30.78	30.84	30.92	30.96	30.99	31.06	31.07	31.10	31.18	31.09	31.23
123	506224	182009	30.10	30.25	30.34	30.42	30.46	30.51	30.54	30.56	30.62	30.63	30.65	30.72	30.64	30.77
123In1	506215	181980	30.00	30.15	30.24	30.34	30.39	30.46	30.50	30.53	30.59	30.60	30.62	30.69	30.61	30.75
122	506208	181944	29.95	30.09	30.18	30.26	30.31	30.37	30.41	30.44	30.49	30.51	30.53	30.60	30.52	30.65
122In1	506199	181905	29.84	29.98	30.05	30.13	30.17	30.22	30.26	30.28	30.33	30.34	30.36	30.42	30.35	30.48
121	506193	181845	29.70	29.83	29.90	29.97	30.01	30.07	30.10	30.12	30.18	30.19	30.21	30.28	30.20	30.34
121In1	506186	181786	29.56	29.68	29.74	29.81	29.84	29.90	29.93	29.96	30.01	30.02	30.05	30.11	30.04	30.16
120	506180	181717	29.43	29.54	29.60	29.66	29.70	29.75	29.78	29.81	29.87	29.88	29.91	29.98	29.89	30.04

**MODELLED FLOWS**

Node Label	Easting	Northing	2 yr	Return Period		10 yr	20 yr	30 yr	50 yr	75 yr	100 yr	100yr + 20%	100yr + 25%	100yr + 35%	100yr + 70%	250 yr	1000yr
				5 yr	10 yr												
130	506068	182348	7.71	9.42	10.64	12.25	13.16	14.52	15.51	16.27	18.46	19.01	20.01	23.21	19.45	25.48	
130ln1	506063	182320	7.71	9.42	10.65	12.25	13.16	14.50	15.48	16.25	18.49	19.09	20.19	23.81	19.58	26.94	
129	506080	182290	7.71	9.23	9.91	11.09	11.90	13.07	13.90	14.52	16.10	16.49	17.19	19.58	16.79	21.61	
129ln1	506124	182270	7.94	9.44	9.63	9.78	10.26	11.17	11.97	12.63	14.80	15.41	16.50	19.88	15.91	22.69	
128a	506135	182224	7.86	9.04	9.14	9.24	9.32	9.41	9.46	9.50	10.19	10.37	10.73	12.09	10.52	13.36	
128	506138	182219	7.86	9.04	9.14	9.24	9.32	9.41	9.46	9.50	10.19	10.37	10.73	12.09	10.52	13.36	
128ln1	506112	182190	7.86	9.23	9.59	10.12	10.44	10.88	11.25	11.47	12.15	12.35	12.68	13.77	12.52	14.69	
P12	506113	182151	7.86	9.66	10.66	11.82	12.46	13.32	13.91	14.33	15.34	15.65	16.15	17.73	15.89	19.00	
P11	506137	182109	7.56	8.48	9.04	9.93	10.40	11.06	11.55	11.93	12.92	13.20	13.67	15.21	13.42	16.51	
P11ln1	506157	182074	7.77	8.39	8.84	9.86	10.61	11.82	12.63	13.22	14.72	15.12	15.81	17.96	15.44	19.73	
26U	506197	182053	7.86	9.63	9.86	9.84	9.83	9.83	9.83	9.83	9.83	9.83	9.81	9.82	9.82	9.82	
P10	506199	182051	7.86	9.63	9.86	9.84	9.83	9.83	9.83	9.83	9.83	9.83	9.81	9.82	9.82	9.82	
P09	506215	182029	7.86	9.66	10.92	11.80	12.12	12.40	12.52	12.60	12.73	12.75	12.77	12.87	12.76	12.94	
123	506224	182009	7.86	9.66	10.92	11.80	12.12	12.40	12.52	12.60	12.73	12.75	12.77	12.87	12.76	12.94	
123ln1	506215	181980	7.86	9.66	10.80	11.31	11.37	11.43	11.46	11.47	11.53	11.55	11.60	11.78	11.57	11.95	
122	506208	181944	7.86	9.66	10.95	12.25	12.82	13.43	13.75	13.97	14.62	14.80	15.13	15.94	14.93	16.48	
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121	506193	181845	8.08	9.90	11.21	12.67	13.52	14.69	15.39	15.91	17.02	17.27	17.76	19.23	17.51	20.41	
121ln1	506186	181786	8.08	9.90	11.21	12.69	13.62	14.94	15.68	16.18	17.43	17.75	18.34	20.25	18.02	21.87	
120	506180	181717	8.08	9.84	11.08	12.47	13.31	14.54	15.33	15.84	17.03	17.32	17.82	19.32	17.56	20.61	

# Detailed FRA centred on: 506169,182030 - 10/08/2022 - HNL 274674 BC



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AL7 1HE



0 15 30 60  
Metres

## Legend

Main Rivers

Site location

## 2D Node Results: Heights

- 1 in 2 year (50%) Defended

The data in this map has been extracted from the River Pinn Mapping Study (JBA, 2015).

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0 15 30 60  
Metres

## Legend

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Site location

## 2D Node Results: Heights

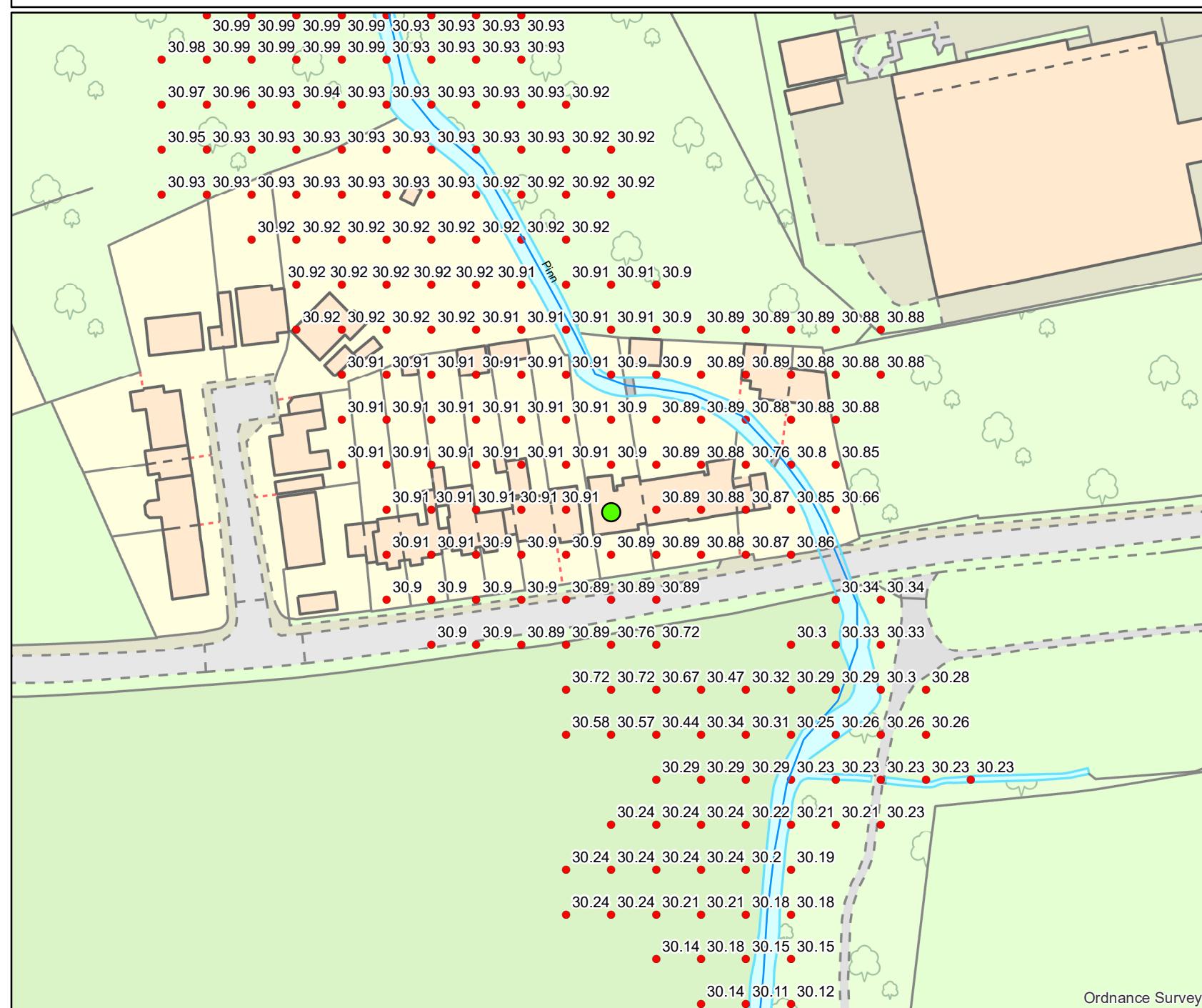
- 1 in 5 year (20%) Defended

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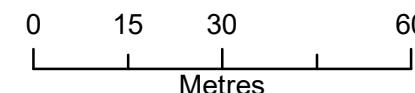
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## Legend

Main Rivers

Site location

## 2D Node Results: Heights

- 1 in 10 year (10%) Defended

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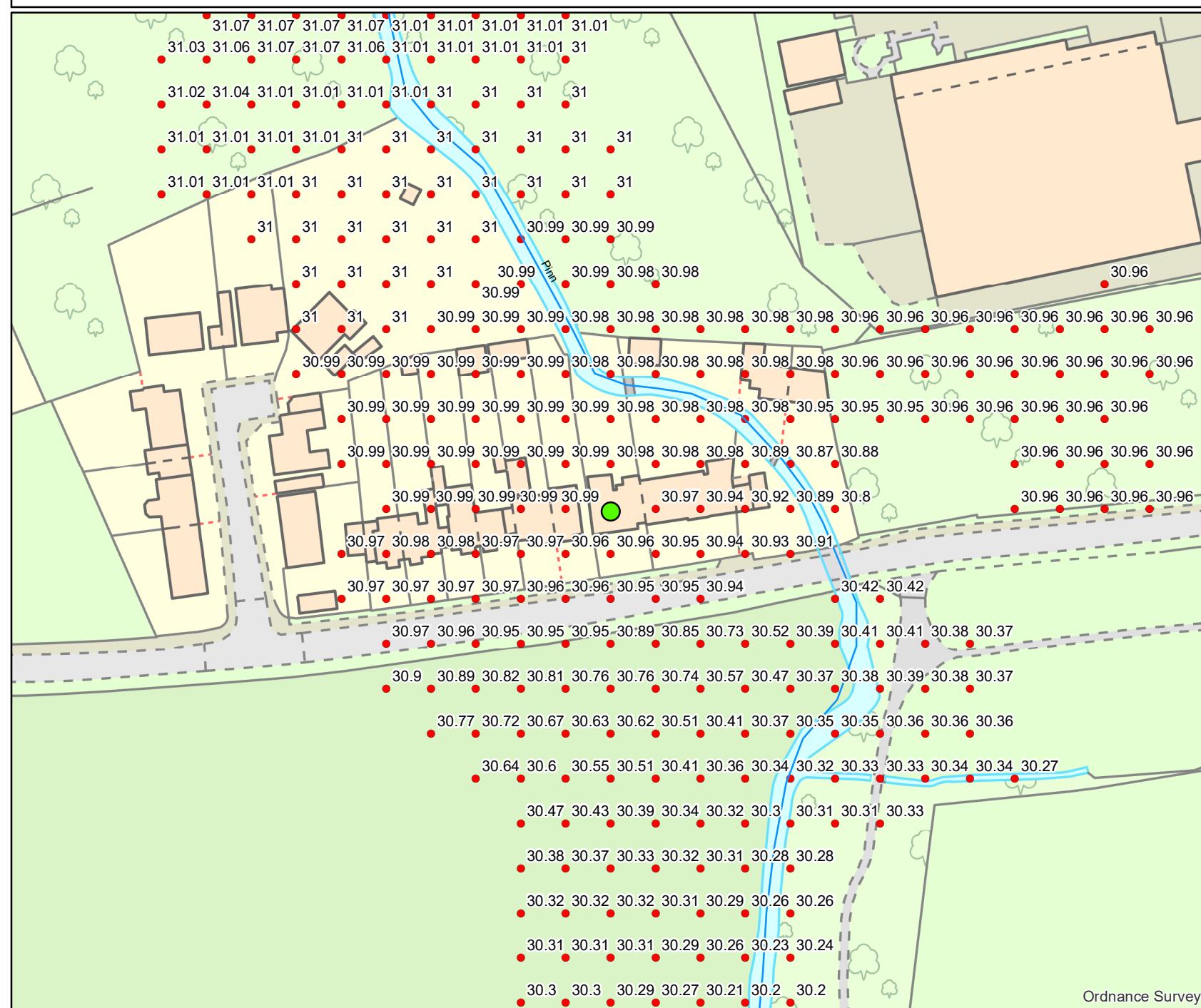
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0 15 30 60  
Metres

## Legend

Main Rivers

Site location

## 2D Node Results: Heights

- 1 in 20 year (5%) Defended

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Modelled outlines take into account catchment wide defences.

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0 15 30 60  
Metres

## Legend

- Main Rivers
- Site location

## 2D Node Results: Heights

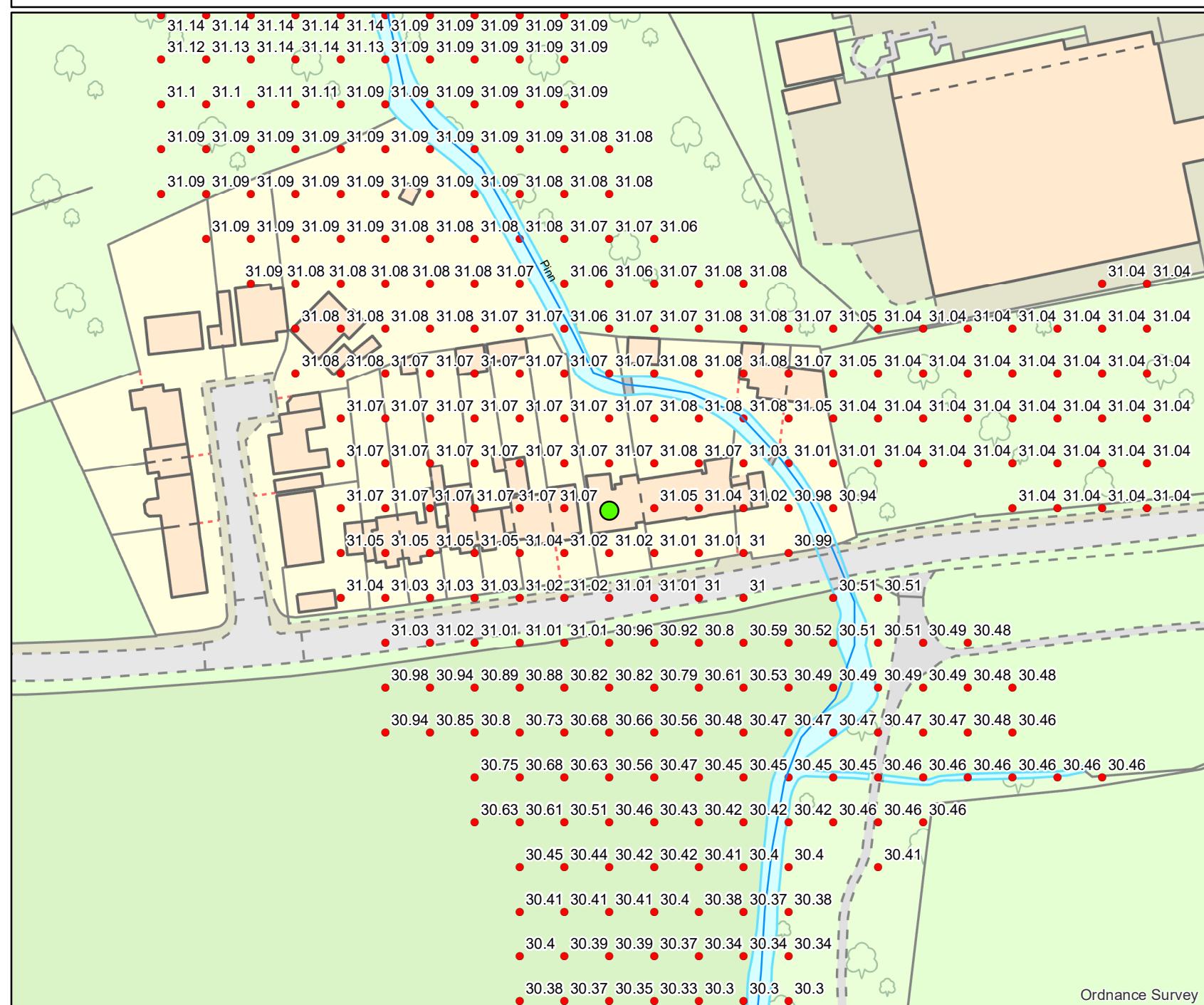
- 1 in 30 year (3.33%) Defended

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Detailed FRA centred on: 506169,182030 - 10/08/2022 - HNL 274674 BC



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A horizontal number line starting at 0 and ending at 60. Major tick marks are labeled at 0, 15, 30, and 60. Minor tick marks are labeled at 10, 20, 35, and 50. The word "Metres" is written below the line.

## Legend

— Main Rivers  
● Site location

## 2D Node Results: Heights

- 1 in 50 year (2%) Defended

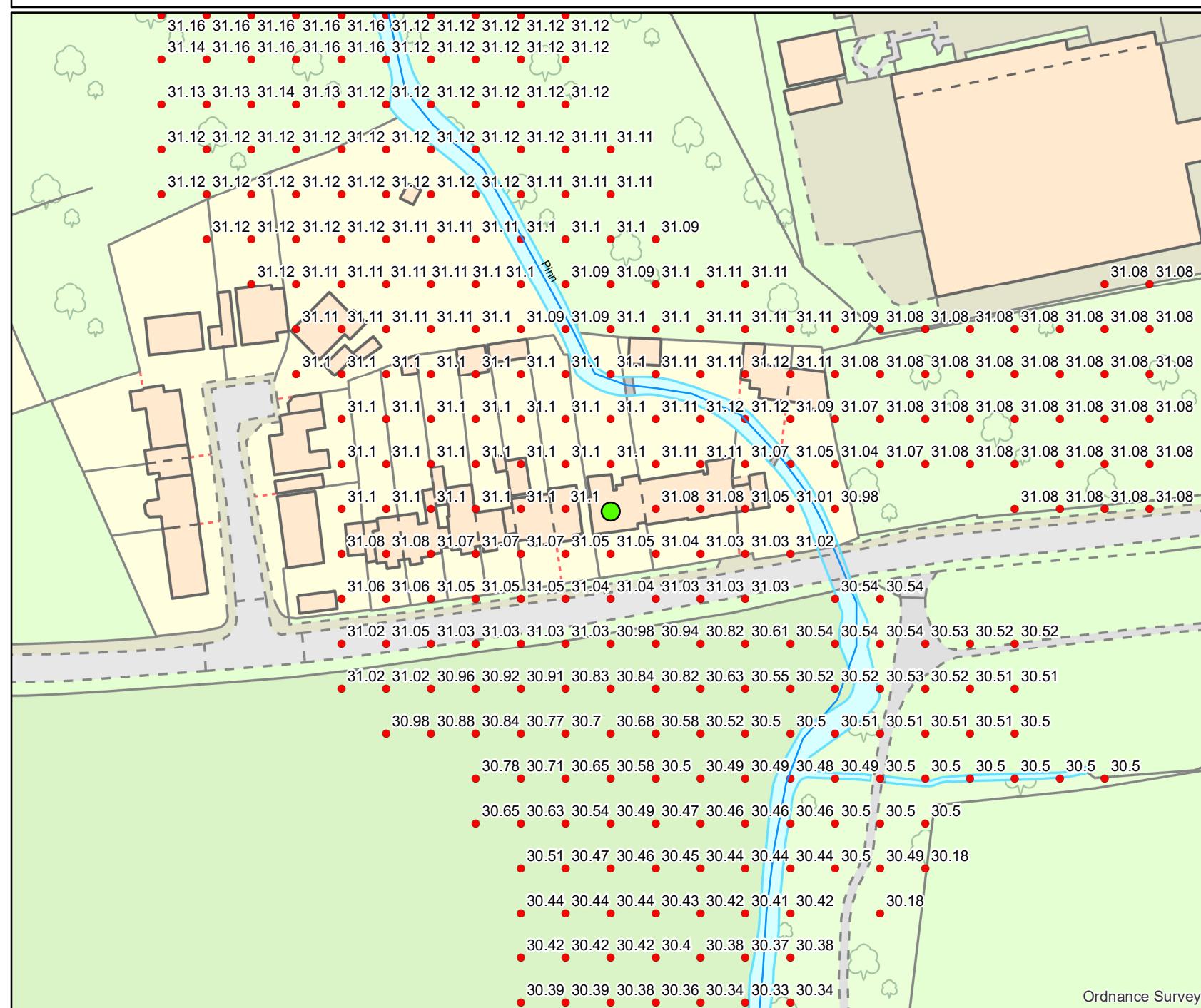
The data in this map has been extracted from the River Pinn Mapping Study (JBA, 2015). This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment. Modelled outlines take into account catchment wide defences.

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0 15 30 60  
Metres

## Legend

- Main Rivers
- Site location

## 2D Node Results: Heights

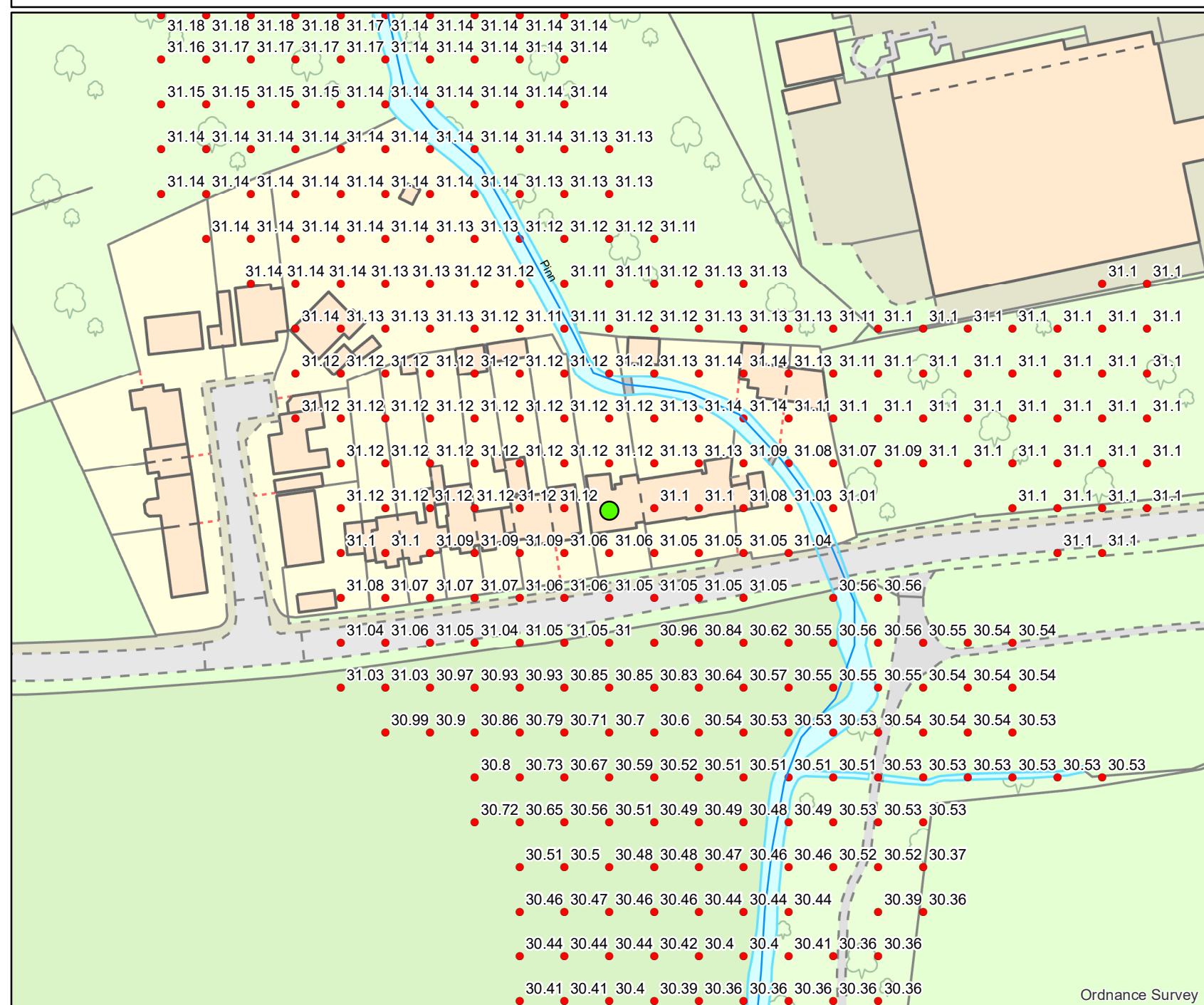
- 1 in 75 year (1.33%) Defended

The data in this map has been extracted from the River Pinn Mapping Study (JBA, 2015). This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment. Modelled outlines take into account catchment wide defences.

Flood risk data requests including an allowance for climate change will be based on the 1 in 100 flood plus 20% allowance for climate change, unless otherwise stated. You should refer to 'Flood risk assessments: climate change allowances' to check if this allowance is still appropriate for the type of development you are proposing and its location. You may need to undertake further assessment of future flood risk using different allowances to ensure your assessment of future flood risk is based on best available evidence. <https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances>

Ordnance Survey

# Detailed FRA centred on: 506169,182030 - 10/08/2022 - HNL 274674 BC



Environment Agency  
Alchemy,  
Bessemer Road,  
Welwyn Garden City,  
Hertfordshire,  
AL7 1HE



0 15 30 60  
Metres

## Legend

Main Rivers

Site location

## 2D Node Results: Heights

- 1 in 100 year (1%) Defended

The data in this map has been extracted from the River Pinn Mapping Study (JBA, 2015).

This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment.

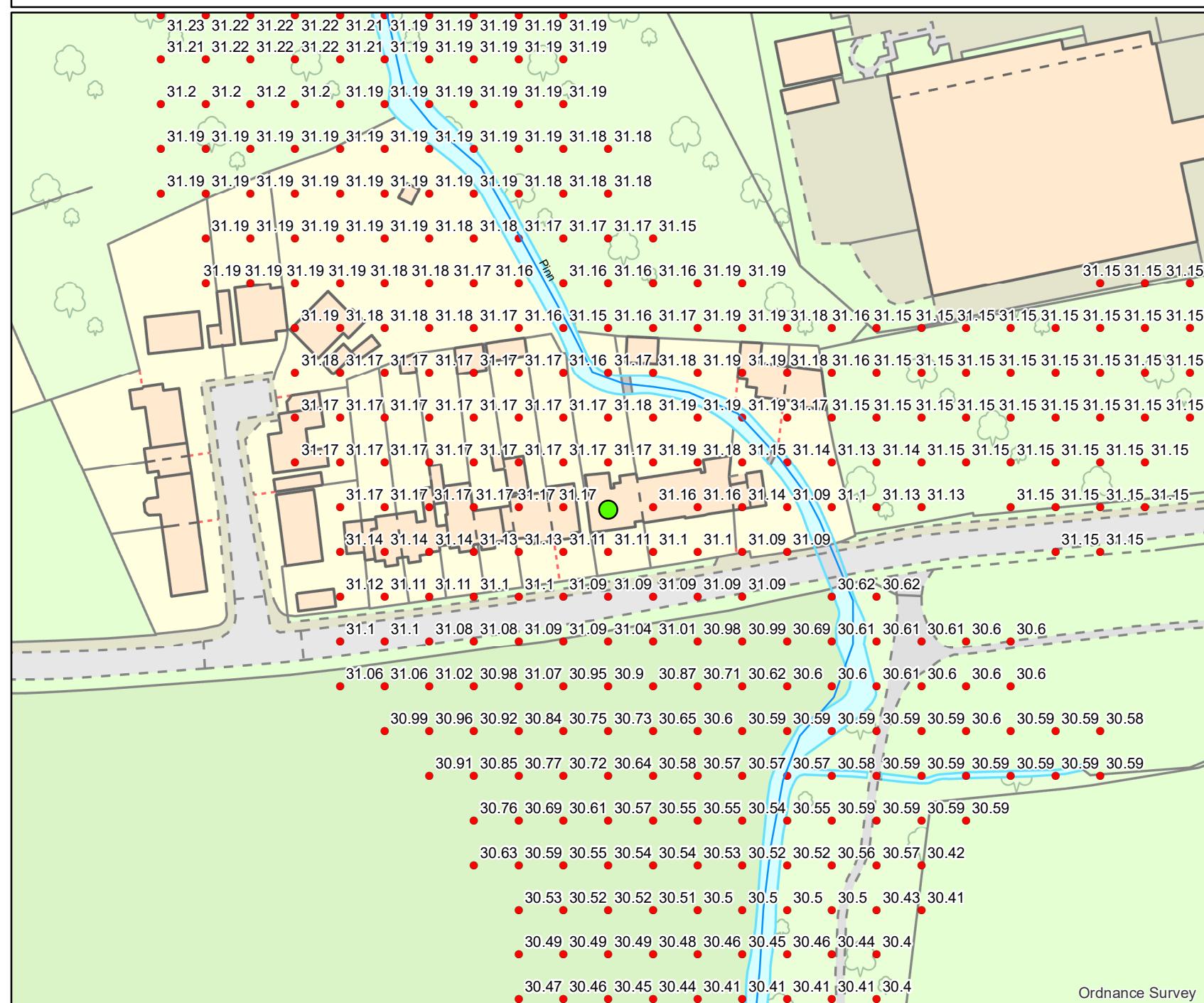
Modelled outlines take into account catchment wide defences.

Flood risk data requests including an allowance for climate change will be based on the 1 in 100 flood plus 20% allowance for climate change, unless otherwise stated. You should refer to 'Flood risk assessments: climate change allowances' to check if this allowance is still appropriate for the type of development you are proposing and its location. You may need to undertake further assessment of future flood risk using different allowances to ensure your assessment of future flood risk is based on best available evidence.

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Ordnance Survey

Detailed FRA centred on: 506169,182030 - 10/08/2022 - HNL 274674 BC



Environment Agency  
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Hertfordshire,  
AL7 1HE



A horizontal number line starting at 0 and ending at 60. Major tick marks are labeled at 0, 15, 30, and 60. Minor tick marks are labeled at 10, 20, 35, and 50. The word "Metres" is written below the line.

## Legend

— Main Rivers  
● Site location

## 2D Node Results: Heights

- 1 in 100 year + 20% (\*CC) Defended

The data in this map has been extracted from the River Pinn Mapping Study (IBA, 2015).

This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment.

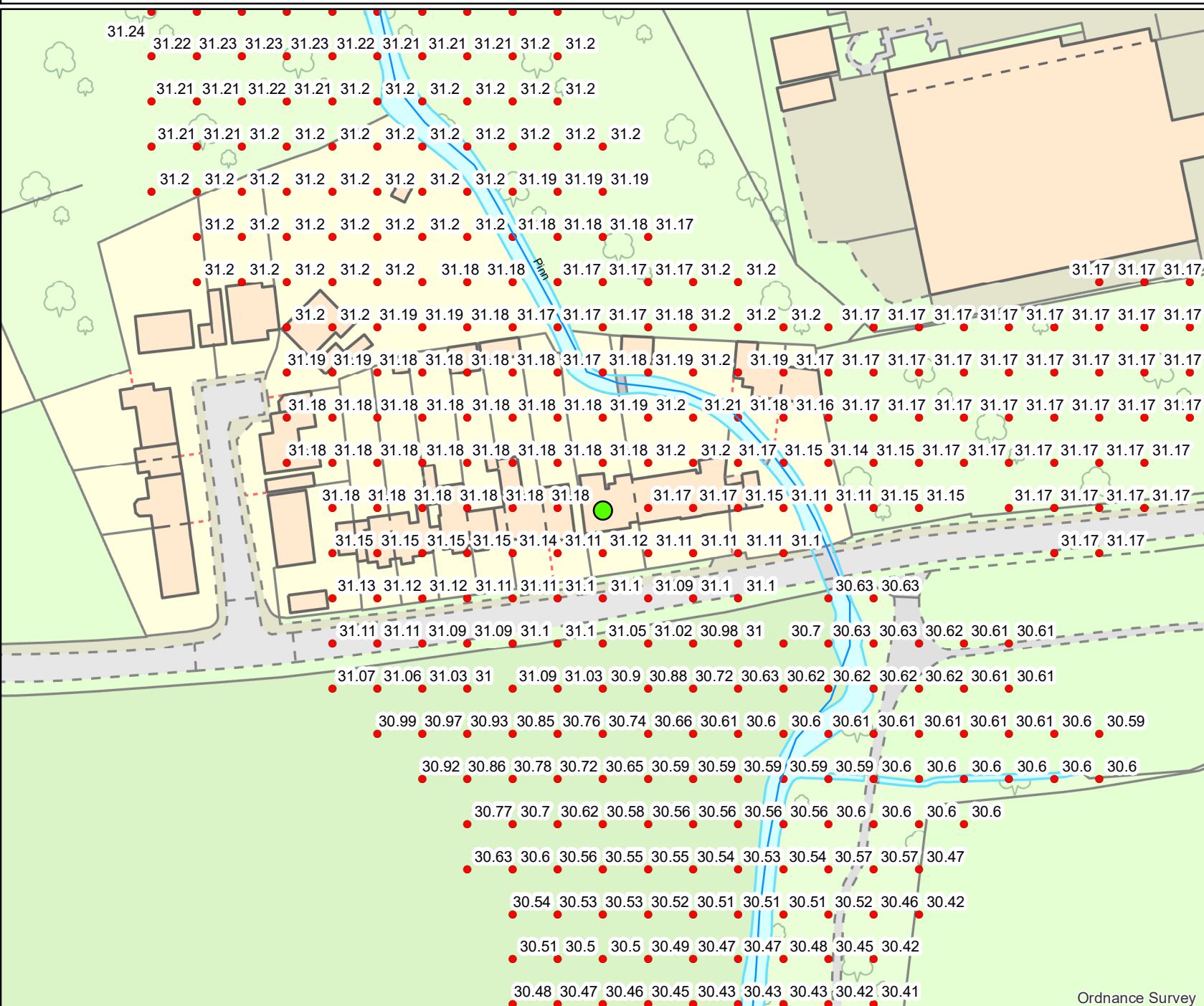
**Modelled outlines take into account catchment wide defences.**

Flood risk data requests including an allowance for climate change will be based on the 1 in 100 flood plus 20% allowance for climate change, unless otherwise stated. You should refer to 'Flood risk assessments: climate change allowances' to check if this allowance is still appropriate for the type of development you are proposing and its location. You may need to undertake further assessment of future flood risk using different allowances to ensure your assessment of future flood risk is based on best available evidence.

<https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances>

Produced by:  
Partnerships & Strategic Overview,  
Hertfordshire & North London

# Detailed FRA centred on: 506169,182030 - 10/08/2022 - HNL 274674 BC



Environment Agency  
Alchemy,  
Bessemer Road,  
Welwyn Garden City,  
Hertfordshire,  
AL7 1HE



0 15 30 60  
Metres

## Legend

Main Rivers

Site location

## 2D Node Results: Heights

- 1 in 100 year + 25% (\*CC) Defended

The data in this map has been extracted from the River Pinn Mapping Study (JBA, 2015).

This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment.

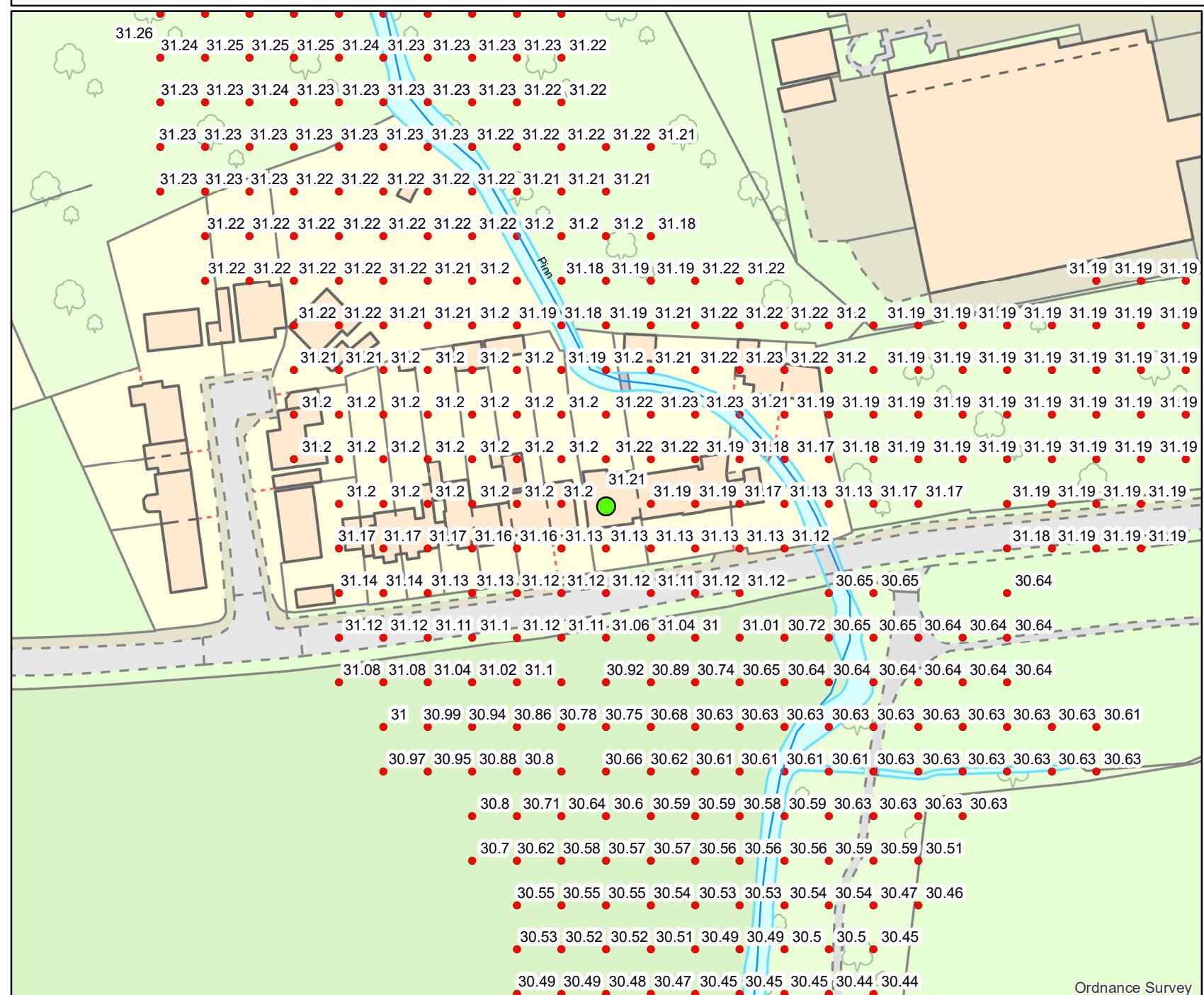
Modelled outlines take into account catchment wide defences.

Flood risk data requests including an allowance for climate change will be based on the 1 in 100 flood plus 20% allowance for climate change, unless otherwise stated. You should refer to 'Flood risk assessments: climate change allowances' to check if this allowance is still appropriate for the type of development you are proposing and its location. You may need to undertake further assessment of future flood risk using different allowances to ensure your assessment of future flood risk is based on best available evidence.

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Alchemy,  
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Hertfordshire,  
AL7 1HE



A horizontal number line with tick marks at 0, 15, 30, and 45. The word "Metres" is written below the line.

## Legend

— Main Rivers  
● Site location

## 2D Node Results: Heights

- 1 in 100 year + 35% (\*CC) Defended

The data in this map has been extracted from the River Pinn Mapping Study (IBA, 2015).

This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment.

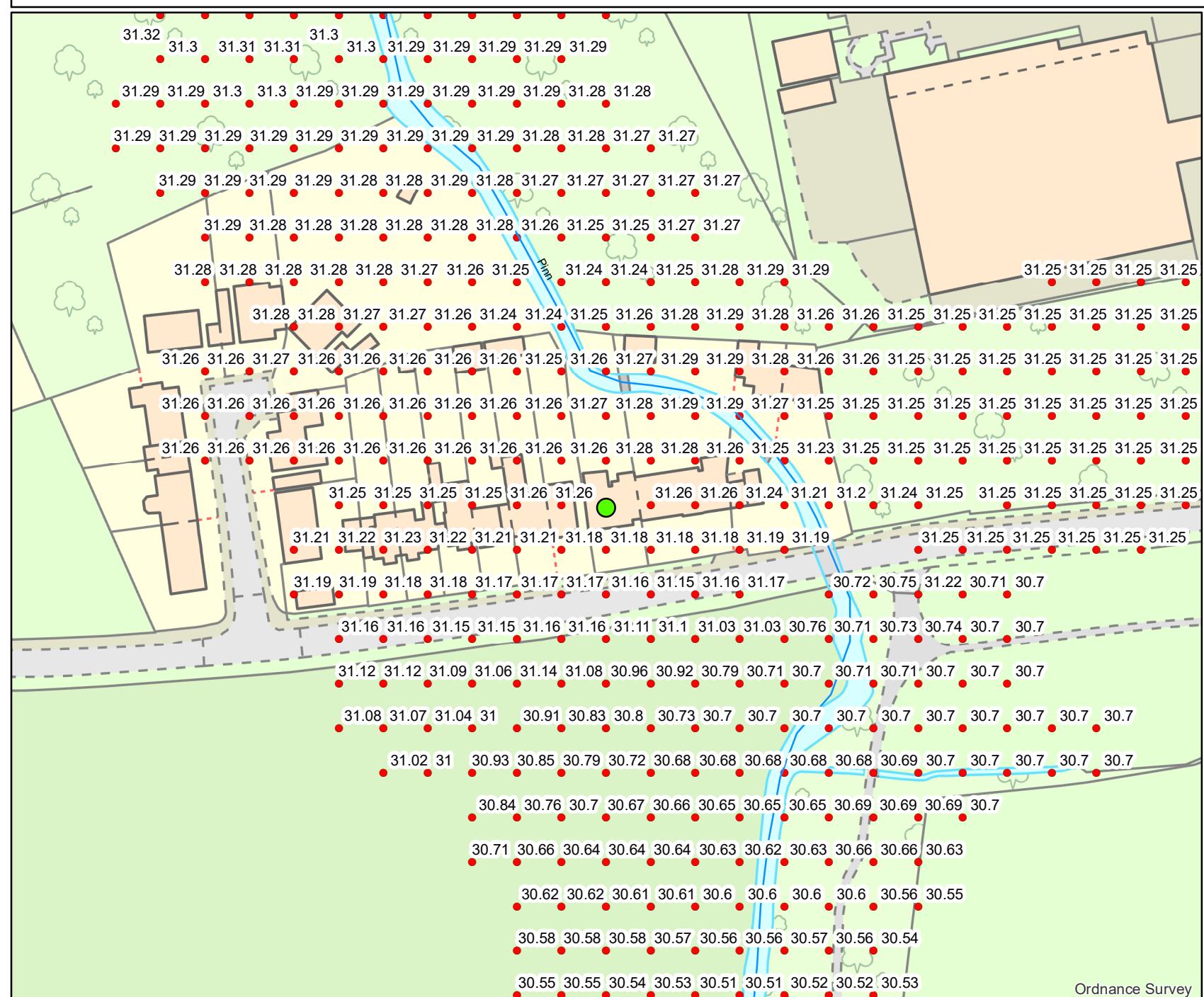
**Modelled outlines take into account catchment wide defences**

**defences.**  
Flood risk data requests including an allowance for climate change will be based on the 1 in 100 flood plus 20% allowance for climate change, unless otherwise stated. You should refer to 'Flood risk assessments: climate change allowances' to check if this allowance is still appropriate for the type of development you are proposing and its location. You may need to undertake further assessment of future flood risk using different allowances to ensure your assessment of future flood risk is based on best available evidence.

<https://www.gov.uk/guidance/climate-change-allowances>

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Environment Agency  
Alchemy,  
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Hertfordshire,  
AL7 1HE



0 15 30 60  
Metres

## Legend

Main Rivers

Site location

## 2D Node Results: Heights

- 1 in 100 year + 70% (\*CC) Defended

The data in this map has been extracted from the River Pinn Mapping Study (JBA, 2015).

This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment.

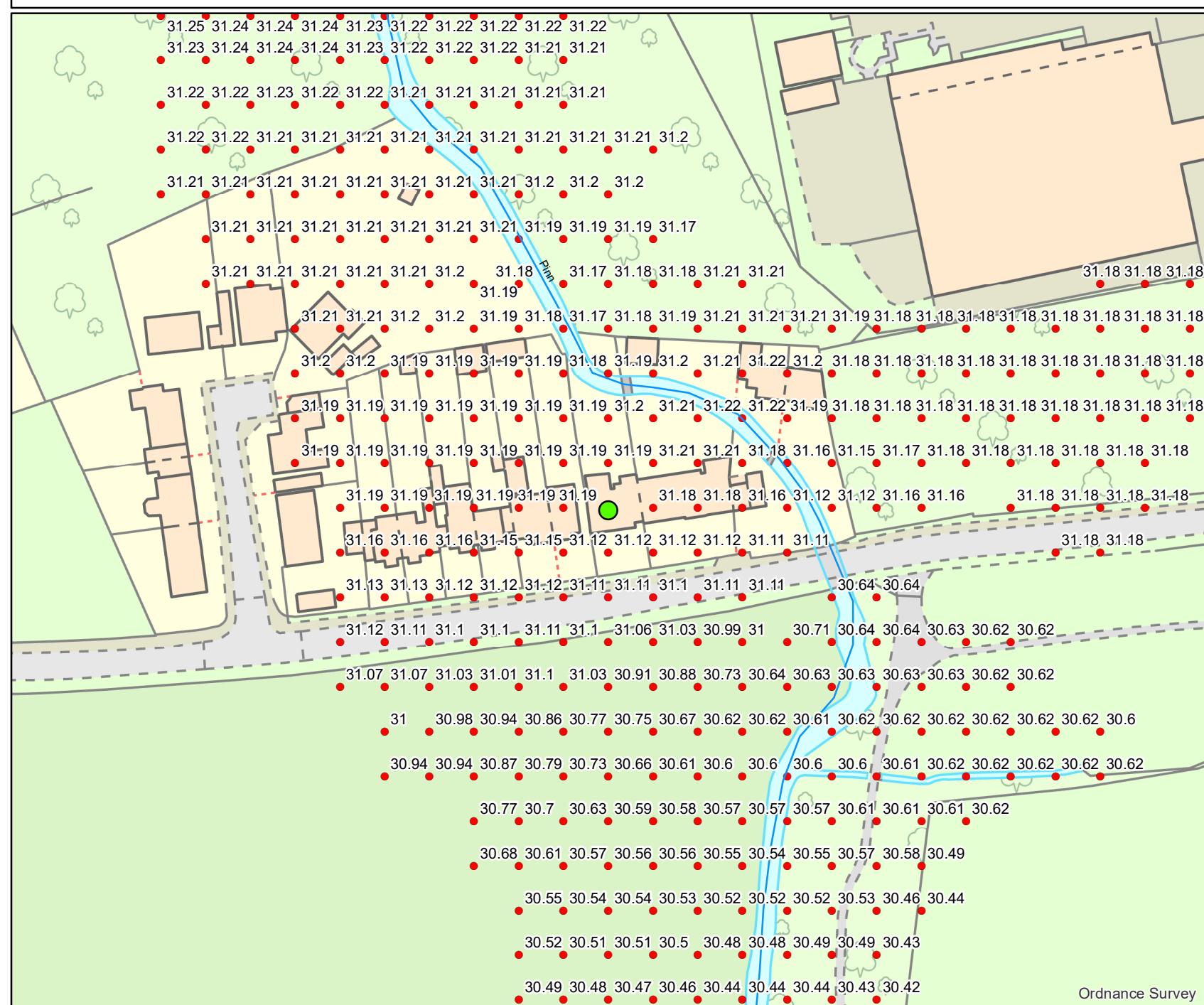
Modelled outlines take into account catchment wide defences.

Flood risk data requests including an allowance for climate change will be based on the 1 in 100 flood plus 20% allowance for climate change, unless otherwise stated. You should refer to 'Flood risk assessments: climate change allowances' to check if this allowance is still appropriate for the type of development you are proposing and its location. You may need to undertake further assessment of future flood risk using different allowances to ensure your assessment of future flood risk is based on best available evidence.

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Alchemy,  
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AL7 1HE



0 15 30 60  
Metres

## Legend

- Main Rivers
- Site location

## 2D Node Results: Heights

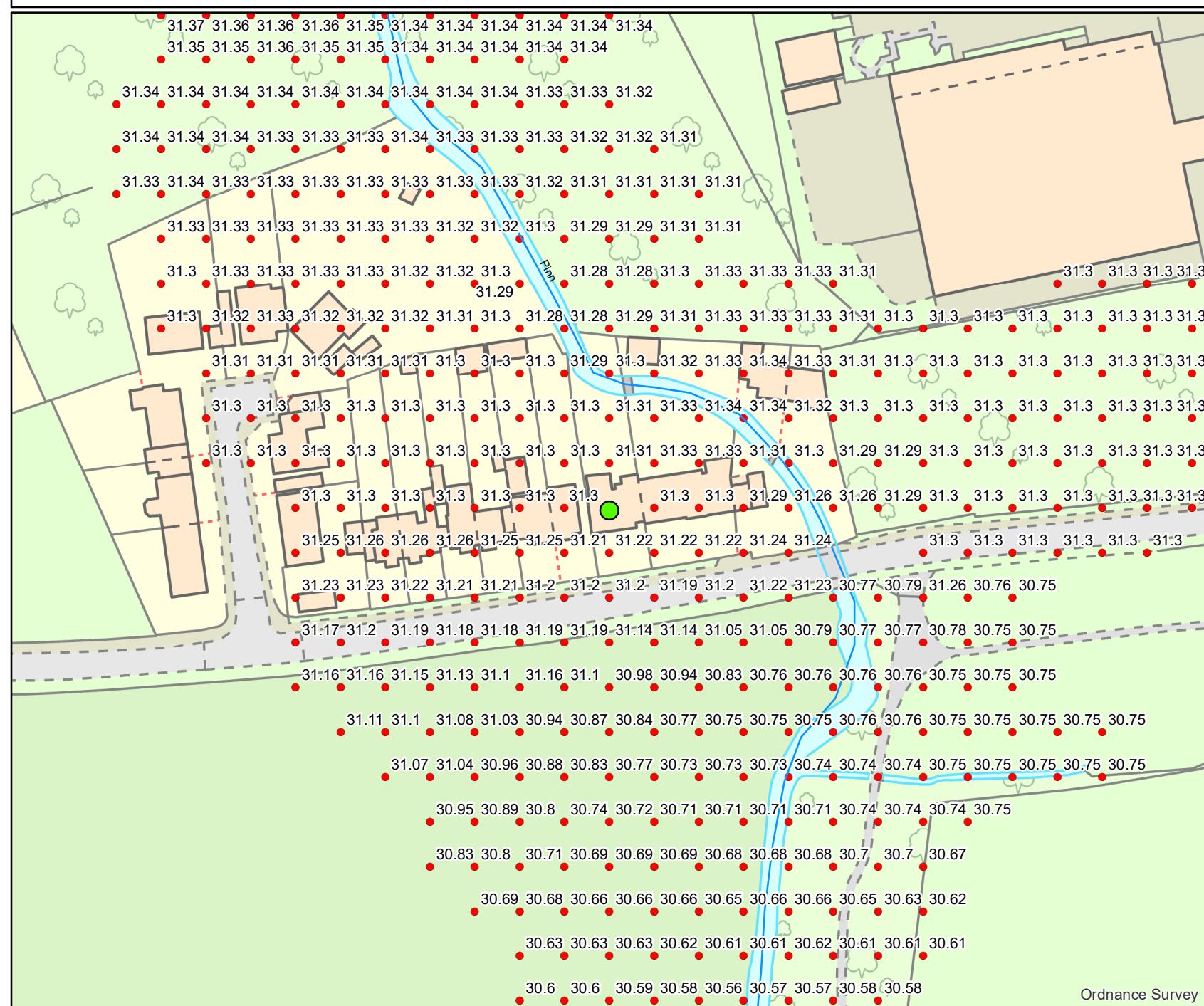
- 1 in 250 year (0.4%) Defended

The data in this map has been extracted from the River Pinn Mapping Study (JBA, 2015). This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment. Modelled outlines take into account catchment wide defences.

Flood risk data requests including an allowance for climate change will be based on the 1 in 100 flood plus 20% allowance for climate change, unless otherwise stated. You should refer to 'Flood risk assessments: climate change allowances' to check if this allowance is still appropriate for the type of development you are proposing and its location. You may need to undertake further assessment of future flood risk using different allowances to ensure your assessment of future flood risk is based on best available evidence. <https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances>

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Alchemy,  
Bessemer Road,  
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Hertfordshire,  
AL7 1HE



0 15 30 60  
Metres

## Legend

Main Rivers

Site location

## 2D Node Results: Heights

- 1 in 1000 year (0.1%) Defended

The data in this map has been extracted from the River Pinn Mapping Study (JBA, 2015).

This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment.

Modelled outlines take into account catchment wide defences.

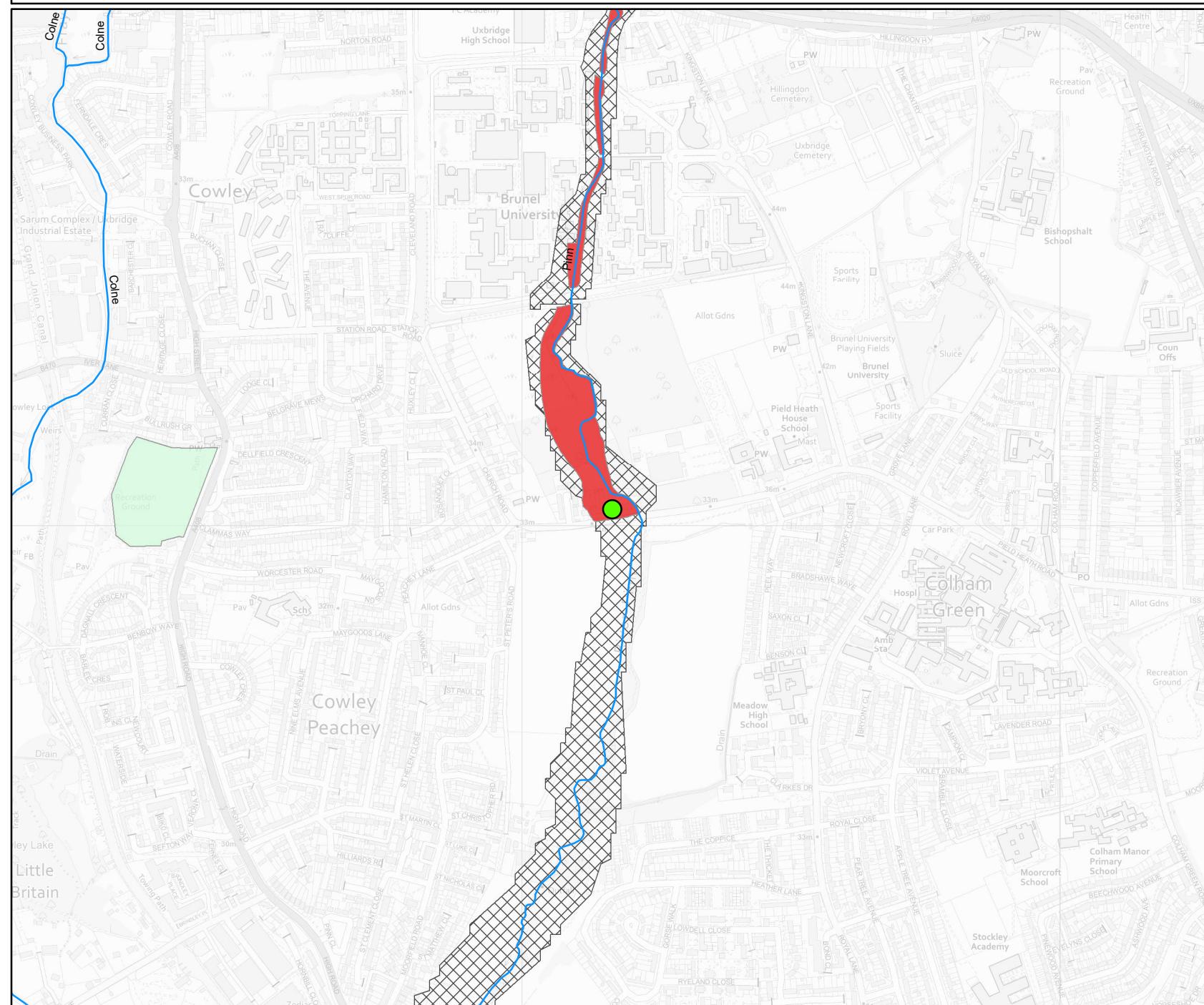
Flood risk data requests including an allowance for climate change will be based on the 1 in 100 flood plus 20% allowance for climate change, unless otherwise stated. You should refer to 'Flood risk assessments: climate change allowances' to check if this allowance is still appropriate for the type of development you are proposing and its location. You may need to undertake further assessment of future flood risk using different allowances to ensure your assessment of future flood risk is based on best available evidence.

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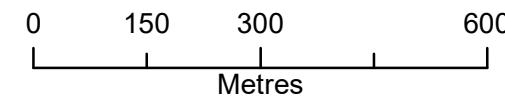
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# Historic Flood Map centred on: 506169,182030 - 10/08/2022 - HNL 274674 BC



Environment Agency  
Alchemy,  
Bessemer Road,  
Welwyn Garden City,  
Hertfordshire,  
AL7 1HE



## Legend

- Main Rivers
- Site location

## Flood Event Outlines

### Legend

- 1977
- 1987
- 1988

The historic flood event outlines are based on a combination of anecdotal evidence, Environment Agency staff observations and survey.

Our historic flood event outlines do not provide a definitive record of flooding.

It is possible that there will be an absence of data in places where we have not been able to record the extent of flooding.

It is also possible for errors occur in the digitisation of historic records of flooding.

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