

Official Scientific Report of PIPETECTOR Installation

Anti-Corrosion Equipment, Office Victoria

Japan System Planning Co., Ltd.

< Installation Purpose and Result >

Office Victoria is located next to the Thistle Westminster Hotel in London and its property being managed by Land Securities which is the UK's leading property company.

For the protection of the hot water pipework from internal corrosion, one unit of Pipetector PT-50DS was installed onto the 2 inches domestic hot water cylinder of steel galvanized flow pipe on 5th of January 2007.

24 days after the installation of Pipetector, the average of Fe content of the domestic hot water considerably decreased from 1.93 mg/l (the highest value is 1.97mg/l and the lowest is 1.89mg/l) to less than 0.007 mg/l 35 days after installation, and 0.01 mg/l (the highest is 0.015mg/l, the lowest is less than 0.007mg/l) 150 days after the installation.

All the amounts of Fe content in water after the installation stayed much lower than the British Government Standard for Drinking Water of 0.2mg/l. It means that new forming of corrosion (FeO(OH)) inside the pipework was immediately terminated and the existing corrosion has been reduced into magnetite (Fe₃O₄) which does not dissolve into water. From then on, Pipetector will protect inner pipework from any internal corrosion.

< Installation Summary >

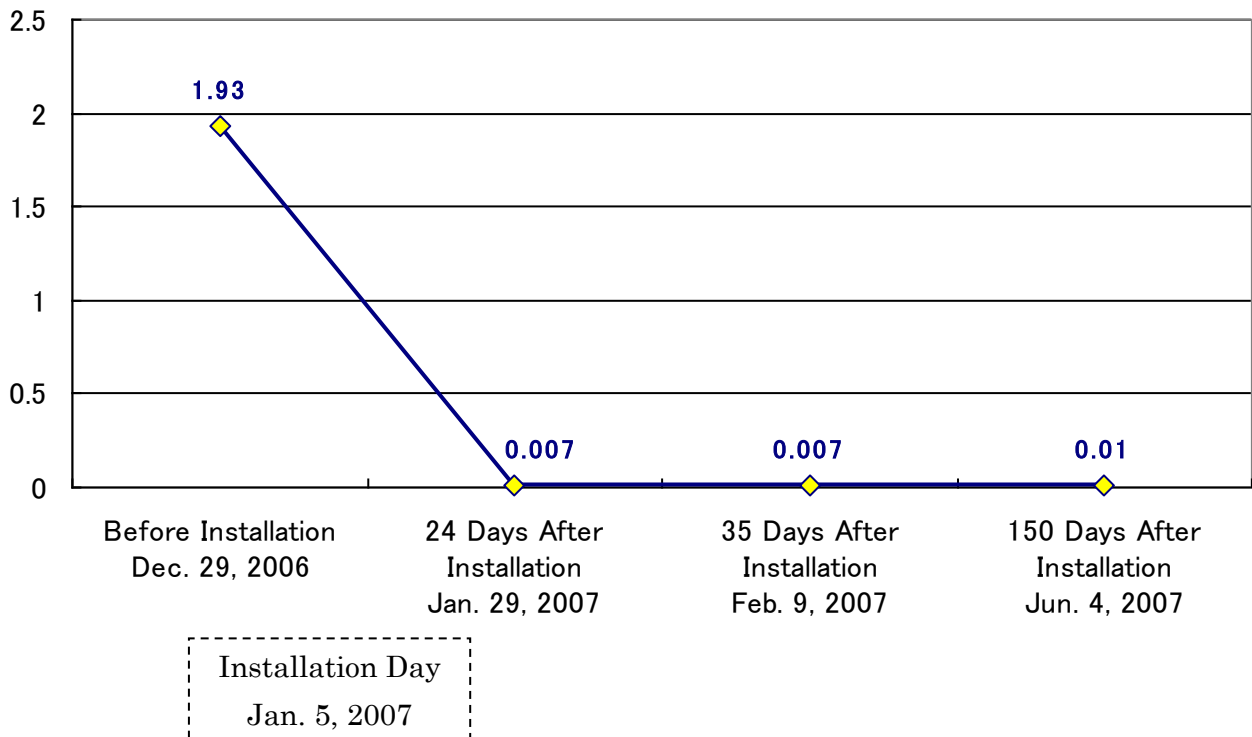
Name of Building: Address	Office Victoria Buckingham Palace Road, London SW1W 0QT
Building Summary	Office Building
Installation Day	January 5 2007
Installation Place and Amount	2 inches hot water flow pipe (SGP) PT-50DS x 1 unit

<Fe Content in Hot Water (mg/l)>

	Before Installation Dec. 29, 2006	Installation Day Jan. 5, 2007	24 Days After Installation Jan. 29, 2007	35 Days After Installation Feb. 9, 2007	150 Days After Installation Jun. 4, 2007	British Government Standard for Drinking Water
Fe Content in Water (mg/l)	1.97 (8 th floor)		<0.007 (4 th floor)	<0.007 (5 th floor)	<0.007 (4 th floor)	0.2 mg/l
	1.89 (3 rd floor)		<0.007 (4 th floor)	<0.007 (6 th floor)	<0.007 (4 th floor)	
					0.012 (7 th floor)	
					0.015 (7 th floor)	
Average (mg/l)	1.93		<0.007	<0.007	0.01	

Fe Content in Water(mg/l)

Office Victoria
Change of Fe content in water(mg/l)



Certificate of Analysis



1314
0897
1492
1510

Sample **6** Laboratory Number : **832175** Issue **1**
of **9** Report Number : **BR/390964/2006**

Sample Source : **Cambridge Water Company**
Sample Point Description : **Cambridgeshire Water Company**
Sample Description : **OFFICE VICTORIA 3RD FLOOR**

Sample Date : **29 December 2006** Sample Received : **29 December 2006** Analysis Complete : **05 January 2007**

Iron, Total as Fe	1890	ug/l	200	B	SBC44
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Accreditation Codes : * = Not UKAS accredited, B = Analysed at STL Bridgend, C = Analysed at STL Coventry, R = Analysed at STL Runcorn, L = Analysed at STL Midlands, S = Sub-contracted
For Microbiological determinands 0 or ND = Not Detected, DET = Detected, For Legionella ND=not detected in volume of sample filtered, I/S = Insufficient sample

Certificate of Analysis



1314
0897
1492
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Sample **5** Laboratory Number : **832174** Issue **1**
of **9** Report Number : **BR/390964/2006**

Sample Source : **Cambridge Water Company**
Sample Point Description : **Cambridgeshire Water Company**
Sample Description : **OFFICE VICTORIA 8TH FLOOR**

Sample Date : **29 December 2006** Sample Received : **29 December 2006** Analysis Complete : **05 January 2007**

Iron, Total as Fe	1970	ug/l	200	B	SBC44
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Before Installation

Certificate of Analysis



24 Days After Installation



1314
0897
1229
1510

Sample 5 Laboratory Number: 870347
of 6 Report Number: BR/402724/2007 Issue 1

Sample Source: Cambridge Water Company
Sample Point Description: Cambridgeshire Water Company
Sample Description: LAKE VIEW COURT 4 FLOOR OFFICES
Sample Date: 29 January 2007 Sample Received: 29 January 2007 Analysis Complete: 02 February 2007

Test Description	Result	Units	Limit	Accreditation	Method
Iron, Total as Fe	<7	ug/l	200	B	SBC44

Accreditation Codes: * = Not UKAS accredited, B = Analysed at STL Bridgend, C = Analysed at STL Coventry, R = Analysed at STL Runcorn, L = Analysed at STL Midlands, S = Sub-contracted
For Microbiological determinands 0 or ND = Not Detected, DET = Detected, For Legionella ND=Not detected in volume of sample filtered. IS = Insufficient sample

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Sample 6 Laboratory Number: 870350
of 6 Report Number: BR/402724/2007 Issue 1

Sample Source: Cambridge Water Company
Sample Point Description: Cambridgeshire Water Company
Sample Description: LAKE VIEW COURT 7TH FLOOR OFFICES HOT WATER
Sample Date: 29 January 2007 Sample Received: 29 January 2007 Analysis Complete: 02 February 2007

Test Description	Result	Units	Limit	Accreditation	Method
Iron, Total as Fe	<7	ug/l	200	B	SBC44

Accreditation Codes: * = Not UKAS accredited, B = Analysed at STL Bridgend, C = Analysed at STL Coventry, R = Analysed at STL Runcorn, L = Analysed at STL Midlands, S = Sub-contracted
For Microbiological determinands 0 or ND = Not Detected, DET = Detected, For Legionella ND=Not detected in volume of sample filtered. IS = Insufficient sample

Signed: *Down* Name: T. Down Date: 02 February 2007
Title: Production Manager

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Certificate of Analysis

35 Days After Installation



1314
0897
1229
1510

Sample 3 Laboratory Number: 889711
of 6 Report Number: BR/405551/2007 Issue 1

Sample Source: Cambridge Water Company
Sample Point Description: Cambridgeshire Water Company
Sample Description: LVC OFFICE 5TH FLOOR LAKE VIEW OFFICE BUILDING
Sample Date: 09 February 2007 Sample Received: 09 February 2007 Analysis Complete: 13 February 2007

Test Description	Result	Units	Limit	Accreditation	Method
Iron, Total as Fe	<7	ug/l	200	B	SBC44

Accreditation Codes: * = Not UKAS accredited, B = Analysed at STL Bridgend, C = Analysed at STL Coventry, R = Analysed at STL Runcorn, L = Analysed at STL Midlands, S = Sub-contracted
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Sample 2 Laboratory Number: 889696
of 6 Report Number: BR/405551/2007 Issue 1



Sample Source: Cambridge Water Company
Sample Point Description: Cambridgeshire Water Company
Sample Description: LVC OFFICE 6TH FLOOR LAKE VIEW OFFICE BUILDING
Sample Date: 09 February 2007 Sample Received: 09 February 2007 Analysis Complete: 13 February 2007

Test Description	Result	Units	Limit	Accreditation	Method
Iron, Total as Fe	<7	ug/l	200	B	SBC44

Accreditation Codes: * = Not UKAS accredited, B = Analysed at STL Bridgend, C = Analysed at STL Coventry, R = Analysed at STL Runcorn, L = Analysed at STL Midlands, S = Sub-contracted
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150 Days After Installation

Certificate of Analysis

1314
0897
1229
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Sample 1 Laboratory Number: 10007350
of 13 Report Number: BR/431327/2007 Issue 1

Sample Source: Cambridge Water Company
Sample Point Description: Cambridgeshire Water Company
Sample Description: lakeview office 4th floor no1
Sample Date: 04 June 2007 Sample Received: 04 June 2007 Analysis Complete: 06 June 2007

Result Description	Result	Units	Limit	Accreditation	Method
Iron, Total as Fe	<7	ug/l	200	B	SBC44

Accreditation Codes: * = Not UKAS accredited, B = Analysed at STL Bridgend, C = Analysed at STL Coventry, R = Analysed at STL Runcom, L = Analysed at STL Midlands, S = Sub-contracted For Microbiological determinands 0 or ND = Not Detected, DET = Detected, For Legionella ND=Not detected in volume of sample filtered. IS = Insufficient sample

Certificate of Analysis

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

Sample 2 Laboratory Number: 10007351
of 13 Report Number: BR/431327/2007 Issue 1

Sample Source: Cambridge Water Company
Sample Point Description: Cambridgeshire Water Company
Sample Description: lakeview office 4th floor no2
Sample Date: 04 June 2007 Sample Received: 04 June 2007 Analysis Complete: 06 June 2007

Result Description	Result	Units	Limit	Accreditation	Method
Iron, Total as Fe	<7	ug/l	200	B	SBC44

Accreditation Codes: * = Not UKAS accredited, B = Analysed at STL Bridgend, C = Analysed at STL Coventry, R = Analysed at STL Runcom, L = Analysed at STL Midlands, S = Sub-contracted For Microbiological determinands 0 or ND = Not Detected, DET = Detected, For Legionella ND=Not detected in volume of sample filtered. IS = Insufficient sample

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

Sample 3 Laboratory Number: 10007352
of 13 Report Number: BR/431327/2007 Issue 1

Sample Source: Cambridge Water Company
Sample Point Description: Cambridgeshire Water Company
Sample Description: lakeview office 7th floor no1
Sample Date: 04 June 2007 Sample Received: 04 June 2007 Analysis Complete: 06 June 2007

Result Description	Result	Units	Limit	Accreditation	Method
Iron, Total as Fe	12	ug/l	200	B	SBC44

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1314
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Sample 4 Laboratory Number: 10007353
of 13 Report Number: BR/431327/2007 Issue 1

Sample Source: Cambridge Water Company
Sample Point Description: Cambridgeshire Water Company
Sample Description: lakeview office 7th floor no2
Sample Date: 04 June 2007 Sample Received: 04 June 2007 Analysis Complete: 06 June 2007

Result Description	Result	Units	Limit	Accreditation	Method
Iron, Total as Fe	15	ug/l	200	B	SBC44

Accreditation Codes: * = Not UKAS accredited, B = Analysed at STL Bridgend, C = Analysed at STL Coventry, R = Analysed at STL Runcom, L = Analysed at STL Midlands, S = Sub-contracted For Microbiological determinands 0 or ND = Not Detected, DET = Detected, For Legionella ND=Not detected in volume of sample filtered. IS = Insufficient sample

Office Victoria 5-5 (080226)