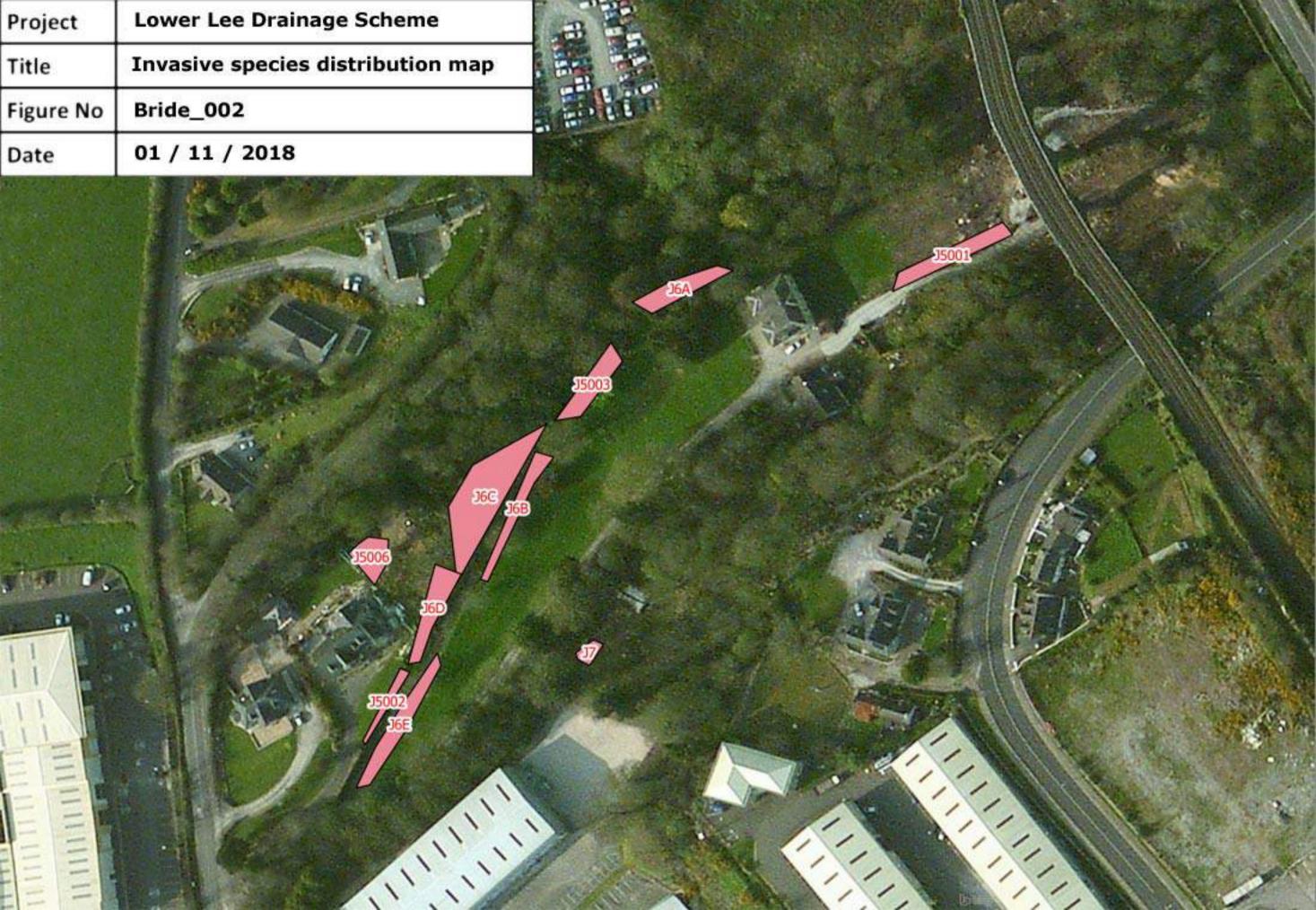
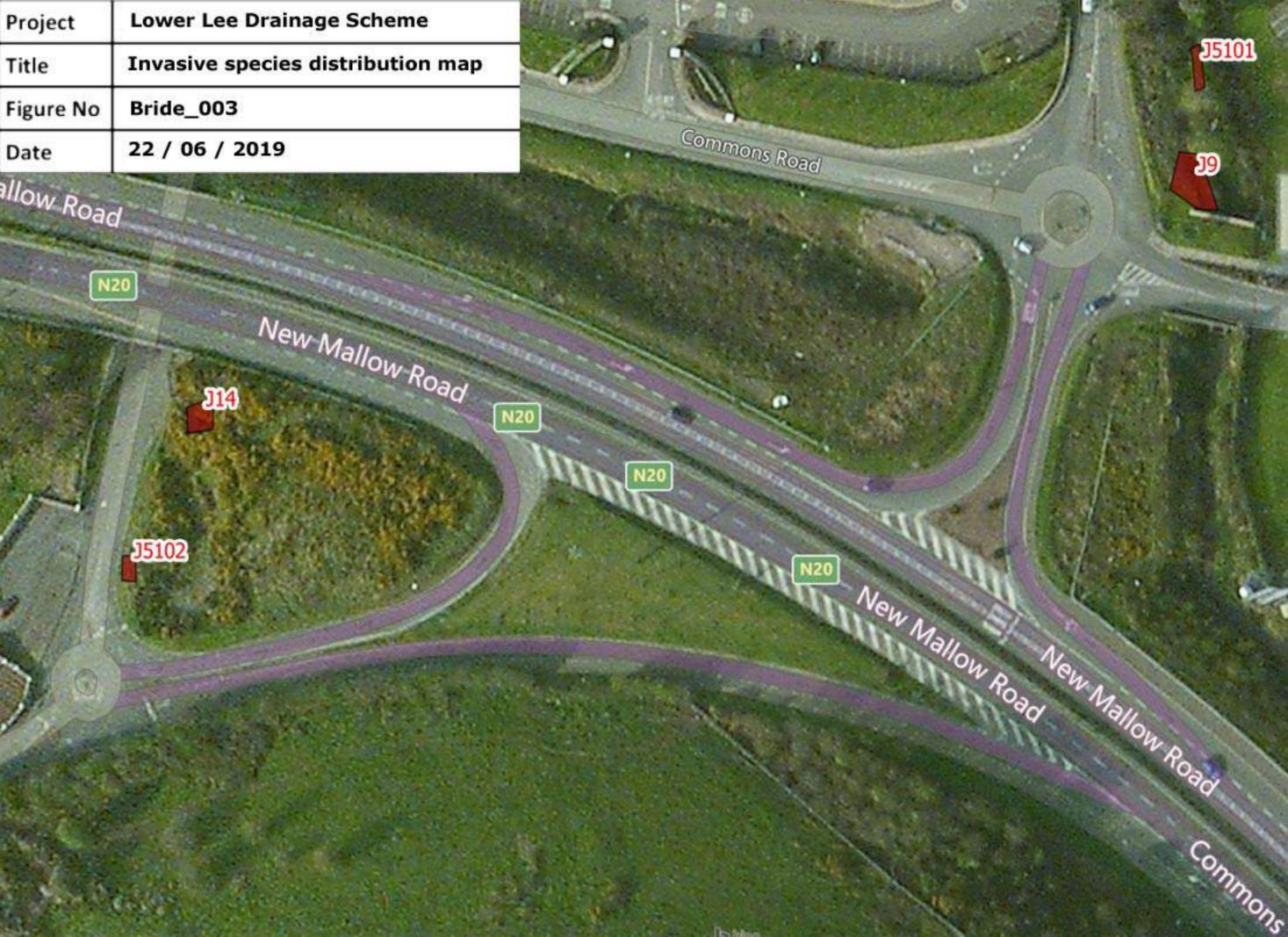
Title	Initial Invasive Species Survey
Project	River Bride Certified Drainage Scheme Japanese knotweed - single stems Core survey area
Figure No	JKT02
D.53 Ardfel	Basketball Ground How the state of the stat
Ardfei	0 50 100 150 200 250 m

Appendix B

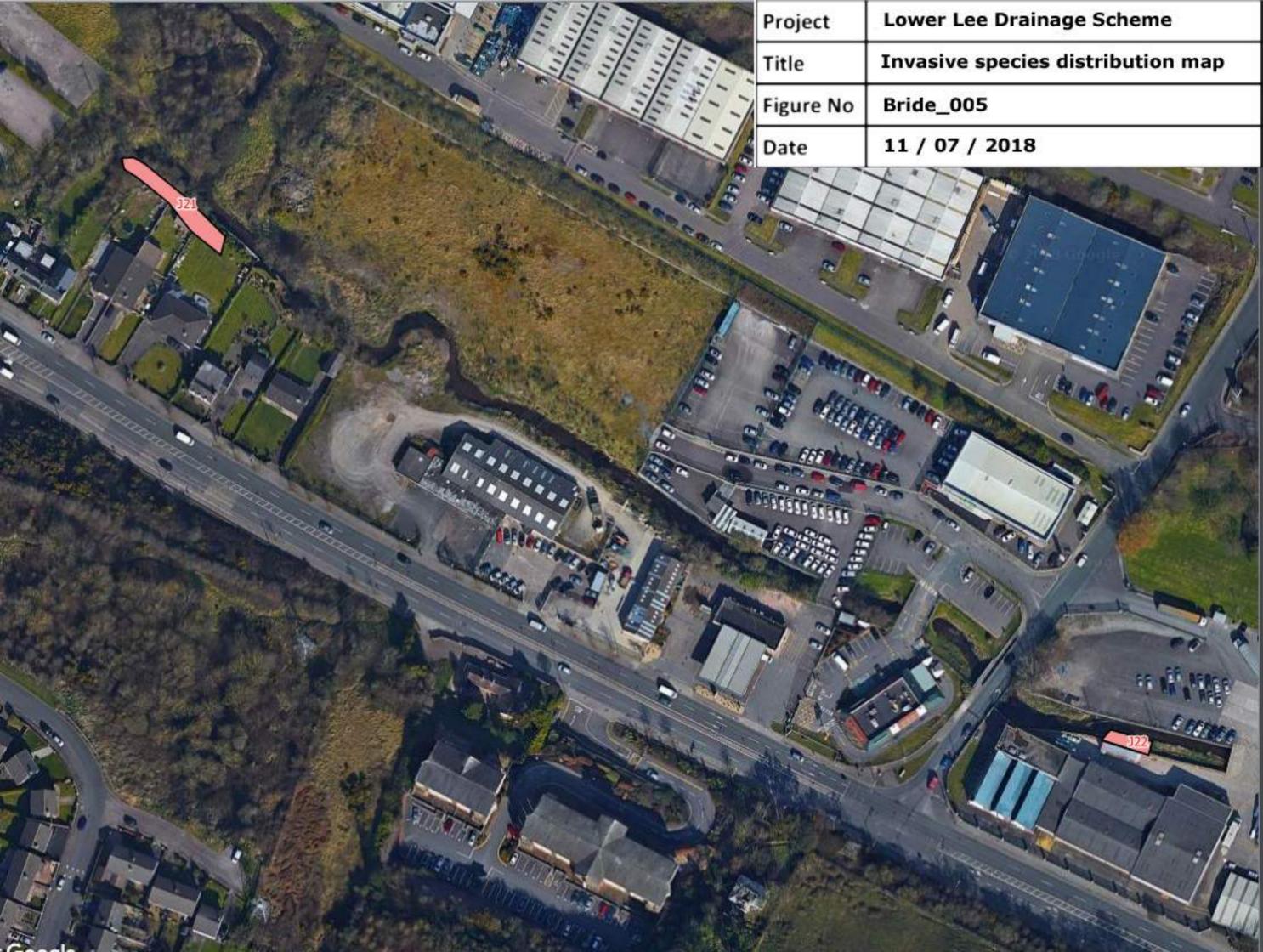
Japanese Knotweed Ireland Mapping 2019

















Appendix C

Japanese Knotweed Ireland Treatment Report 2019



Lower Lee (Cork City) Drainage Scheme – Invasive Species Advance Treatment Stage 2

River Bride Treatment Report 2019











SiteID G01

Treated by John Walsh

Treatment date / time 14/08/2019 13:35:00

Weather ConditionsTemp / Wind / Sky / 20 / 17 KPH W / 31-60 / 21-40 / Overcast

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 10.0000

Water volume used per hectare 0.5l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description 18-32" tall, Scattered individuals

Treatment notes Small amount of regrowth present whole location has been treated





G01 SiteID

Treated by Colin Hayes

18/09/2019 10:53:00 Treatment date / time

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 0-30 / 0-20 / Overcast Humidity % / Rain %

Foliar Spray Method of treatment

Herbicide Used RoundUp Biactive

4660 **PCS Number**

Calibration rate per hectare 4.01

Total conc. product used (ml) 10.0000

Water volume used per hectare 0.51

Nozzle type 1109 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description No growth present

Treatment notes Area treated no signage required further monitoring required as area has been cut by

landscaping





Treated by Aidan Lombard

Treatment date / time 15/08/2019 08:52:00

Weather ConditionsTemp / Wind / Sky / 16 / 11S / 61-75 / 21-40 / Overcast

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 1200.0000

Water volume used per hectare 60l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Aidan Lombard

Description 3-18" tall, Scattered individuals

Treatment notes Sporadic growth of juvenile plants growing throughout the area. The area is being

used as a yard and the Knotweed is being trampled. Continued treatment and

monitoring required









Treated by Colin Hayes

Treatment date / time 18/09/2019 10:13:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 61-75 / 0-20 / Cloudy

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 200.0000

Water volume used per hectare 10l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description < 3" tall, Scattered individuals

Treatment notes Area treated signage maintained sporadic growth of young juvenile knotweed present





Supplementary photos

J1-P006.jpg



Treated by John Walsh

Treatment date / time 14/08/2019 14:38:00

Weather ConditionsTemp / Wind / Sky / 20 / 17 KPH W / 31-60 / 21-40 / Overcast

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 5.0000

Water volume used per hectare 0.25l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description 3-18" tall, Scattered individuals

Treatment notes Regrowth present area treated and bonsai growth





Treated by Colin Hayes

Treatment date / time 18/09/2019 08:57:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 61-75 / 0-20 / Clear

Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 75.0000

Water volume used per hectare 3.75l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description < 3" tall, Scattered individuals

Treatment notes Area treated signage maintained sporadic regrowth present





Treated by John Walsh

Treatment date / time 14/08/2019 08:55:00

Weather ConditionsTemp / Wind / Sky / 16 / 20 KPH W / 61-75 / 21-40 / Cloudy

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 20.0000

Water volume used per hectare 11

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description No growth present

Treatment notes No evidence of regrowth present whole location has been treated anyway further

monitoring required signage maintained





Treated by Colin Hayes

Treatment date / time 18/09/2019 08:35:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Clear

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 20.0000

Water volume used per hectare 1

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered PU

Qualified and registered advisor Yes

Description No growth present

Treatment notes Area treated and signage maintained further monitoring required

Colin Hayes





Method of treatment

SiteID J17

Treated by John Walsh

Treatment date / time 14/08/2019 09:22:00

Weather ConditionsTemp / Wind / Sky / 17 / 18 KPH W / 31-60 / 0-20 / Cloudy

Humidity % / Rain %

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 30.0000

Water volume used per hectare 1.5l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description 3-18" tall, Scattered individuals

Treatment notes Small amount of regrowth present whole location has been treated and signage

maintained further monitoring and treatment required





Treated by Colin Hayes

Treatment date / time 18/09/2019 08:48:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Clear

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 20.0000

Water volume used per hectare 1

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU

Description No growth present

Treatment notes Area treated no signage required further monitoring required

Colin Hayes





Treated by John Walsh

Treatment date / time 14/08/2019 09:12:00

Weather ConditionsTemp / Wind / Sky / 17 / 18 KPH W / 61-75 / 21-40 / Cloudy

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 20.0000

Water volume used per hectare 11

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description 3-18" tall, Scattered individuals

Treatment notes Small amount of regrowth present whole location has been treated further monitoring

and treatment required





Treated by Colin Hayes

Treatment date / time 18/09/2019 08:46:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Clear

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 20.0000

Water volume used per hectare 1

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description No growth present

Treatment notes Area treated no signage required further monitoring required





Treated by John Walsh

Treatment date / time 14/08/2019 09:07:00

Weather ConditionsTemp / Wind / Sky / 17 / 18 KPH W / 31-60 / 21-40 / Cloudy

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.01

Total conc. product used (ml) 20.0000

Water volume used per hectare 1

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

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Description No growth present

Treatment notes

No evidence of regrowth present whole location has been treated and signage

maintained further monitoring required





Treated by Colin Hayes

Treatment date / time 18/09/2019 08:43:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Clear Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 20.0000

Water volume used per hectare 1

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description No growth present

Treatment notes Area treated no signage required further monitoring required





Treated by John Walsh

Treatment date / time 14/08/2019 14:17:00

Weather ConditionsTemp / Wind / Sky / 20 / 17 KPH W / 61-75 / 21-40 / Overcast Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 40.0000

Water volume used per hectare 21

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description 3-18" tall, Scattered individuals

Treatment notes Small amount of regrowth present whole location has been treated and signage

maintained further monitoring and treatment required







Treated by Colin Hayes

Treatment date / time 18/09/2019 09:46:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Cloudy Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 40.0000

Water volume used per hectare 21

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description < 3" tall, Scattered individuals

Treatment notes Area treated signage maintained





Treated by John Walsh

Treatment date / time 14/08/2019 14:04:00

Weather ConditionsTemp / Wind / Sky / 20 / 17 KPH W / 31-60 / 21-40 / Overcast

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.01

Total conc. product used (ml) 30.0000

Water volume used per hectare 1.5l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description > 32" tall, Scattered individuals

Treatment notes Small amount of regrowth present whole location has been treated and signage

maintained further monitoring and treatment required





J22 SiteID

Treated by Colin Hayes

18/09/2019 10:05:00 Treatment date / time

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Cloudy

Humidity % / Rain %

Method of treatment

Foliar Spray Herbicide Used RoundUp Biactive

4660 **PCS Number**

Calibration rate per hectare 4.01

Total conc. product used (ml) 40.0000

Water volume used per hectare 21

Nozzle type 1109 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description < 3" tall, Scattered individuals

Treatment notes Area retreated no signage required





Treated by John Walsh

Treatment date / time 14/08/2019 13:44:00

Weather ConditionsTemp / Wind / Sky / 20 / 17 KPH W / 61-75 / 21-40 / Overcast

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 20.0000

Water volume used per hectare 11

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description > 32" tall, Scattered individuals

Treatment notes Small amount of regrowth present throughout the area whole location has been

treated further monitoring and treatment required





Treated by Colin Hayes

Treatment date / time 18/09/2019 10:37:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Cloudy Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 60.0000

Water volume used per hectare 31

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description < 3" tall, Scattered individuals

Treatment notes Area treated and signage maintained





Treated by John Walsh

Treatment date / time 14/08/2019 13:40:00

Weather ConditionsTemp / Wind / Sky / 20 / 17 KPH W / 31-60 / 21-40 / Overcast

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 20.0000

Water volume used per hectare 11

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

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Description No growth present

Treatment notes

No evidence of regrowth present whole location has been treated further monitoring

and treatment required





SiteID J24

Treated by Colin Hayes

Treatment date / time 18/09/2019 10:46:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 61-75 / 41-60 / Cloudy

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.01

Total conc. product used (ml) 40.0000

Water volume used per hectare 21

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description No growth present

Treatment notes Area treated signage maintained





Treated by John Walsh

Treatment date / time 14/08/2019 13:29:00

Weather ConditionsTemp / Wind / Sky / 17 / 18 KPH W / 61-75 / 21-40 / Overcast

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 10.0000

Water volume used per hectare 0.5l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description 3-18" tall, Scattered individuals

Treatment notes Area of Japanese knotweed has been treated and signage maintained further

monitoring and treatment required





Treatment date / time

Method of treatment

J26 SiteID

Treated by Colin Hayes 18/09/2019 10:59:00

Weather ConditionsTemp / Wind / Sky /

13 / 7 KPH SE / 31-60 / 0-20 / Clear Humidity % / Rain %

Foliar Spray

Herbicide Used RoundUp Biactive

4660 **PCS Number**

Calibration rate per hectare 4.01

Total conc. product used (ml) 20.0000

Water volume used per hectare 11

Nozzle type 1109 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description No growth present

Treatment notes Area treated signage maintained





Treated by John Walsh

Treatment date / time 14/08/2019 08:39:00

Weather ConditionsTemp / Wind / Sky / 16 / 20 KPH W / 61-75 / 21-40 / Cloudy

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.01

Total conc. product used (ml) 30.0000

Water volume used per hectare 1.5l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description No growth present

Treatment notes No evidence of regrowth present whole location has been treated anyway further

monitoring required





Treated by Colin Hayes

Treatment date / time 18/09/2019 11:57:00

Weather ConditionsTemp / Wind / Sky / 15 / 7 KPH SE / 31-60 / 0-20 / Clear Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 30.0000

Water volume used per hectare 1.5l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description < 3" tall, Scattered individuals

Treatment notes Area treated signage maintained





J29 SiteID

John Walsh Treated by

14/08/2019 08:36:00 Treatment date / time

Weather ConditionsTemp / Wind / Sky / 16 / 20 KPH W / 31-60 / 21-40 / Cloudy

Humidity % / Rain %

Foliar Spray Method of treatment

Herbicide Used RoundUp Biactive

4660 **PCS Number**

Calibration rate per hectare 4.01

Total conc. product used (ml) 20.0000

Water volume used per hectare 11

Nozzle type 1109 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description No growth present

Treatment notes No evidence of regrowth present whole location has been treated anyway further

monitoring required





Treated by Colin Hayes

Treatment date / time 18/09/2019 11:55:00

Weather ConditionsTemp / Wind / Sky / 15 / 7 KPH SE / 61-75 / 0-20 / Clear Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 40.0000

Water volume used per hectare 21

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description No growth present

Treatment notes Area treated signage maintained





Treated by John Walsh

Treatment date / time 14/08/2019 08:09:00

Weather ConditionsTemp / Wind / Sky / 16 / 20 KPH W / 61-75 / 21-40 / Cloudy

Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 100.0000

Water volume used per hectare 51

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Description

Qualified and registered PU John Walsh

Treatment notes Scattered regrowth throughout the area whole location has been treated and signage

maintained, location is being disturbed by dumping of rubbish over fence

3-18" tall, Basal rosettes at ground level, Scattered individuals





Treated by Colin Hayes

Treatment date / time 18/09/2019 11:47:00

Weather ConditionsTemp / Wind / Sky / 15 / 7 KPH SE / 31-60 / 0-20 / Clear

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 100.0000

Water volume used per hectare 51

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description 18-32" tall, > 32" tall, Scattered individuals

Treatment notes Area treated signage maintained





SiteID J31A

Treated by John Walsh

Treatment date / time 14/08/2019 08:07:00

Weather ConditionsTemp / Wind / Sky / 16 / 20 KPH W / 61-75 / 21-40 / Cloudy

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.01

Total conc. product used (ml) 60.0000

Water volume used per hectare 31

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description 3-18" tall, Basal rosettes at ground level, Scattered individuals

Treatment notes Sporadic regrowth present whole location has been treated area is being disturbed by

dumping of rubbish over fence signage maintained





SiteID J31A

Treated by Colin Hayes

Treatment date / time 18/09/2019 11:49:00

Weather ConditionsTemp / Wind / Sky / 15 / 7 KPH SE / 31-60 / 0-20 / Clear Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 40.0000

Water volume used per hectare 21

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description 3-18" tall, Scattered individuals

Treatment notes Area treated and signage maintained





SiteID J31C

Treated by John Walsh

Treatment date / time 14/08/2019 07:55:00

Weather ConditionsTemp / Wind / Sky / 16 / 20 KPH W / 61-75 / 21-40 / Cloudy

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 20.0000

Water volume used per hectare 11

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description 3-18" tall, Scattered individuals

Treatment notes Small amount of regrowth spread throughout location whole area has been treated

and signage maintained





SiteID J31C

Treated by Colin Hayes

Treatment date / time 18/09/2019 11:34:00

Weather ConditionsTemp / Wind / Sky / 15 / 7 KPH SE / 31-60 / 0-20 / Clear Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 40.0000

Water volume used per hectare 21

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU

Description

Colin Hayes

18-32" tall, > 32" tall, Scattered individuals

Treatment notes Area treated no signage required





Treated by John Walsh

Treatment date / time 14/08/2019 09:44:00

Weather ConditionsTemp / Wind / Sky / 17 / 18 KPH W / 61-75 / 21-40 / Overcast Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 20.0000

Water volume used per hectare 11

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Treatment notes

Qualified and registered PU John Walsh

Description 3-18" tall, Scattered individuals

maintained further monitoring and treatment required

Small amount of regrowth present whole location has been treated and signage





SiteID

Treatment date / time 18/09/2019 09:06:00

Weather ConditionsTemp / Wind / Sky / Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 5.0000

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Water volume used per hectare 0.25l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description < 3" tall, Scattered individuals

Treatment notes Area treated no signage required further monitoring required





SiteID

J5002

Treated by

John Walsh

Treatment date / time

14/08/2019 10:43:00

Weather ConditionsTemp / Wind / Sky /

17 / 18 KPH W / 31-60 / 21-40 / Overcast

Humidity % / Rain % Method of treatment

Foliar Spray

Herbicide Used

RoundUp Biactive

PCS Number

4660

Calibration rate per hectare

4.01

Total conc. product used (ml)

60.0000

Water volume used per hectare

Nozzle type

1109 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor

Yes

31

Qualified and registered PU

John Walsh

Description

3-18" tall, Scattered individuals

Treatment notes

Sporadic regrowth present throughout location whole area has been cut by strimmers landowner has been told not to cut several times but doesn't listen, whole area has been treated and signage maintained further monitoring and treatment required





Treated by Colin Hayes

Treatment date / time 18/09/2019 09:25:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Clear Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 40.0000

Water volume used per hectare 21

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

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Qualified and registered PU Colin Hayes

Description < 3" tall, Scattered individuals

Treatment notes

Area treated no signage required further monitoring required as home owner keeps

cutting the bank where knotweed is located





Method of treatment

J5003 SiteID

John Walsh

Foliar Spray

Treated by 14/08/2019 09:59:00 Treatment date / time

Weather ConditionsTemp / Wind / Sky / 17 / 18 KPH W / 61-75 / 21-40 / Overcast

Humidity % / Rain %

Herbicide Used RoundUp Biactive

4660 **PCS Number**

Calibration rate per hectare 4.01

Total conc. product used (ml) 50.0000

Water volume used per hectare 2.51

Nozzle type 1109 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description 3-18" tall, Scattered individuals

Treatment notes Small amount of regrowth present throughout location whole area has been treated

and signage maintained further monitoring and treatment required





Treated by Colin Hayes

Treatment date / time 18/09/2019 09:14:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Clear Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 60.0000

Water volume used per hectare 31

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

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Qualified and registered PU Colin Hayes

Description < 3" tall, Scattered individuals

Treatment notes Area treated no signage required further monitoring required





Method of treatment

SiteID J5004

Treated by John Walsh

Treatment date / time 14/08/2019 08:26:00

Weather ConditionsTemp / Wind / Sky / 16 / 20 KPH W / 31-60 / 21-40 / Cloudy Humidity % / Rain %

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 40.0000

Water volume used per hectare 2I

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description 3-18" tall, Basal rosettes at ground level, Scattered individuals

Treatment notes Area of Japanese knotweed has been treated and signage maintained





Treated by Colin Hayes

Treatment date / time 18/09/2019 11:53:00

Weather ConditionsTemp / Wind / Sky / 15 / 7 KPH SE / 31-60 / 0-20 / Clear Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 20.0000

Water volume used per hectare 1

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin

Description < 3" tall, 3-18" tall, Scattered individuals

Colin Hayes

Treatment notes Area treated signage maintained





Method of treatment

SiteID J5005

Treated by John Walsh

Treatment date / time 14/08/2019 13:32:00

Weather ConditionsTemp / Wind / Sky / 17 / 18 KPH W / 31-60 / 21-40 / Overcas

Weather ConditionsTemp / Wind / Sky / 17 / 18 KPH W / 31-60 / 21-40 / Overcast Humidity % / Rain %

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.01

Total conc. product used (ml) 10.0000

Water volume used per hectare 0.5l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description No growth present

Treatment notes No evidence of regrowth whole area treated further monitoring and treatment

required





J5005 SiteID

Treated by Colin Hayes

18/09/2019 10:55:00 Treatment date / time

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Overcast Humidity % / Rain %

Foliar Spray Method of treatment

Herbicide Used RoundUp Biactive

4660 **PCS Number**

Calibration rate per hectare 4.01

Total conc. product used (ml) 10.0000

Water volume used per hectare 0.51

Nozzle type 1109 0.3

Calibration used in accordance with SUD Yes

Yes

Qualified and registered advisor

Qualified and registered PU

Description No growth present

Treatment notes Area treated and signage maintained

Colin Hayes





Treated by John Walsh

Treatment date / time 14/08/2019 11:01:00

Weather ConditionsTemp / Wind / Sky / 17 / 18 KPH W / 31-60 / 21-40 / Overcast Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 40.0000

Water volume used per hectare 21

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

8

Qualified and registered PU John Walsh

Description 18-32" tall, Scattered individuals

Treatment notes Sporadic regrowth present throughout location whole area has been treated and

signage maintained further monitoring and treatment required





Treated by Colin Hayes

Treatment date / time 18/09/2019 09:27:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Clear Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 80.0000

Water volume used per hectare 4l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description < 3" tall, 18-32" tall, > 32" tall, Scattered individuals

Treatment notes

Area treated no signage required further monitoring and treatment required





Treated by Aidan Lombard

Treatment date / time 21/06/2019 10:36:00

Weather ConditionsTemp / Wind / Sky / 14 / 18 KPH SSW / 31-60 / 0-20 / Clear

Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 30.0000

Water volume used per hectare 1.5l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Aidan Lombard

Description 3-18" tall, 18-32" tall, Scattered individuals

Treatment notes Signage erected whole area treated







Treated by John Walsh

Treatment date / time 14/08/2019 14:56:00

Weather ConditionsTemp / Wind / Sky / 20 / 17 KPH W / 31-60 / 21-40 / Overcast

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 35.0000

Water volume used per hectare 1.75l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description 3-18" tall, Scattered individuals

Treatment notes Regrowth present area has been treated





SiteID Treated by Colin Hayes 18/09/2019 09:41:00 Treatment date / time Weather ConditionsTemp / Wind / Sky /

13 / 7 KPH SE / 31-60 / 0-20 / Clear Humidity % / Rain % Foliar Spray Method of treatment

J5101

Herbicide Used RoundUp Biactive

4660 **PCS Number**

Calibration rate per hectare 4.01

Total conc. product used (ml) 40.0000

Water volume used per hectare 21

Nozzle type 1109 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

3-18" tall, Scattered individuals Description

Treatment notes Area treated and signage maintained





Treated by Aidan Lombard

Treatment date / time 21/06/2019 10:23:00

Weather ConditionsTemp / Wind / Sky / 13 / 18 KPH SSW / 31-60 / 0-20 / Clear

Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 20.0000

Water volume used per hectare 1

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Aidan Lombard

Description 3-18" tall, 18-32" tall, Scattered individuals

Treatment notes Signage erected .area is being cut by road maintenance







Treated by John Walsh

Treatment date / time 14/08/2019 08:54:00

Weather ConditionsTemp / Wind / Sky / 16 / 20 KPH W / 31-60 / 21-40 / Cloudy

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 10.0000

Water volume used per hectare 0.5l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description 3-18" tall, Scattered individuals

Treatment notes Knotweed is being cut in location whole area has been treated and signage maintained

further monitoring and treatment required





Treated by Colin Hayes

Treatment date / time 18/09/2019 08:33:00

Weather ConditionsTemp / Wind / Sky / 17 / 7 KPH SE / 31-60 / 0-20 / Clear Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 10.0000

Water volume used per hectare 0.5l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description < 3" tall, Scattered individuals

Treatment notes Area treated and signage maintained further monitoring required





SiteID J6A

Treated by John Walsh

Treatment date / time 14/08/2019 09:49:00

Weather ConditionsTemp / Wind / Sky / 17 / 18 KPH W / 31-60 / 21-40 / Overcast Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 60.0000

Water volume used per hectare 31

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

......

Qualified and registered PU John Walsh

Description 3-18" tall, Scattered individuals

Treatment notes Sporadic regrowth present throughout location whole area has been treated and

signage maintained further monitoring and treatment required





SiteID J6A

Treated by Colin Hayes

Treatment date / time 18/09/2019 09:13:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Clear Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 40.0000

Water volume used per hectare 21

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

.....

Qualified and registered PU Colin Hayes

Description < 3" tall, 18-32" tall, Scattered individuals

Treatment notes Area treated no signage required further monitoring required





SiteID

John Walsh

J6B

Treated by

Treatment date / time

14/08/2019 10:03:00

Weather ConditionsTemp / Wind / Sky / Humidity % / Rain %

17 / 18 KPH W / 31-60 / 21-40 / Overcast

Method of treatment

Foliar Spray

Herbicide Used

RoundUp Biactive

PCS Number

4660

Calibration rate per hectare

4.01

Total conc. product used (ml)

60.0000

Water volume used per hectare

31

Nozzle type

1109 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor

Yes

Qualified and registered PU

John Walsh

Description

3-18" tall, Scattered individuals

Treatment notes

Sporadic regrowth present throughout location whole area has been treated, the edge of location is being cut which will lead to further infestation, further monitoring and treatment required





J6B SiteID

Treated by Colin Hayes

18/09/2019 09:16:00 Treatment date / time

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Clear Humidity % / Rain %

Foliar Spray Method of treatment

Herbicide Used RoundUp Biactive

4660 **PCS Number**

Calibration rate per hectare 4.01

Total conc. product used (ml) 50.0000

Water volume used per hectare 2.51

Nozzle type 1109 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

3-18" tall, Scattered individuals Description

Treatment notes Area treated no signage required further monitoring required





J6C SiteID

Treated by John Walsh

14/08/2019 10:16:00 Treatment date / time

Weather ConditionsTemp / Wind / Sky /

17 / 18 KPH W / 31-60 / 21-40 / Overcast Humidity % / Rain %

Method of treatment **Foliar Spray**

Herbicide Used RoundUp Biactive

4660 **PCS Number**

Calibration rate per hectare 4.01

Total conc. product used (ml) 60.0000

Water volume used per hectare 31

Nozzle type 1109 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description 3-18" tall, Scattered individuals

Treatment notes Small amount of regrowth present in location whole area has been treated and

signage maintained further monitoring and treatment required





SiteID J6C

Treated by Colin Hayes

Treatment date / time 18/09/2019 09:18:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Clear Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 40.0000

Water volume used per hectare 21

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU

Description 3-18" tall, Scattered individuals

Treatment notes Area treated no signage required further monitoring required

Colin Hayes





SiteID J6D

Treated by John Walsh

Treatment date / time 14/08/2019 10:31:00

Weather ConditionsTemp / Wind / Sky / 17 / 18 KPH W / 31-60 / 21-40 / Overcast

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 50.0000

Water volume used per hectare 2.5l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description 3-18" tall, Scattered individuals

Treatment notes Small amount of regrowth present whole location has been treated and signage

maintained further monitoring and treatment required





SiteID J6D

Treated by Colin Hayes

Treatment date / time 18/09/2019 09:20:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Clear Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 20.0000

Water volume used per hectare 1

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description < 3" tall, Scattered individuals

Treatment notes Area treated no signage required further monitoring required





J6E SiteID

Treated by John Walsh

14/08/2019 10:35:00 Treatment date / time

Weather ConditionsTemp / Wind / Sky / 17 / 18 KPH W / 61-75 / 21-40 / Overcast

Humidity % / Rain % Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

4660 **PCS Number**

Calibration rate per hectare 4.01

Total conc. product used (ml) 60.0000

Water volume used per hectare 31

Nozzle type 1109 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description 3-18" tall, Scattered individuals

Treatment notes Small amount of regrowth present in location whole area has been treated and

signage maintained further monitoring and treatment required





SiteID J6E

Treated by Colin Hayes

Treatment date / time 18/09/2019 09:22:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Clear Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 40.0000

Water volume used per hectare 21

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description < 3" tall, Scattered individuals

Treatment notes Area treated no signage required further monitoring required





Treated by John Walsh

Treatment date / time 14/08/2019 11:03:00

Weather ConditionsTemp / Wind / Sky / 17 / 18 KPH W / 61-75 / 21-40 / Overcast

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 30.0000

Water volume used per hectare 1.5l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description < 3" tall, Scattered individuals

Treatment notes Small amount of regrowth present whole location has been treated and signage

maintained further monitoring and treatment required





Treated by Colin Hayes

Treatment date / time 18/09/2019 09:29:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Clear

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 40.0000

Water volume used per hectare 21

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

......

Qualified and registered PU Colin Hayes

Description 18-32" tall, Scattered individuals

Treatment notes Area treated no signage required further monitoring required





Treated by John Walsh

Treatment date / time 14/08/2019 14:58:00

Weather ConditionsTemp / Wind / Sky / 20 / 17 KPH W / 31-60 / 21-40 / Overcast Humidity % / Rain %

Method of treatment Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 25.0000

Water volume used per hectare 1.25l

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU John Walsh

Description 3-18" tall, Scattered individuals

Treatment notes Area treated regrowth present





Treated by Colin Hayes

Treatment date / time 18/09/2019 09:37:00

Weather ConditionsTemp / Wind / Sky / 13 / 7 KPH SE / 31-60 / 0-20 / Clear

Humidity % / Rain %

Method of treatment

Foliar Spray

Herbicide Used RoundUp Biactive

PCS Number 4660

Calibration rate per hectare 4.0l

Total conc. product used (ml) 40.0000

Water volume used per hectare 21

Nozzle type 110º 0.3

Calibration used in accordance with SUD Yes

Qualified and registered advisor Yes

Qualified and registered PU Colin Hayes

Description 3-18" tall, Scattered individuals

Treatment notes Area treated signage maintained further monitoring required



Appendix D

Japanese Knotweed Ireland Validation Report 2020



Lower Lee (Cork City) Drainage Scheme – Invasive Species Advance Treatment Stage 2

River Bride Initial Validation Report 2020











Drawing Number bride_008

Contractor Name Japanese Knotweed Ireland Ltd

Surveyor Name Aidan Lombard

Survey Date/Time 25/05/2020 09:09:00

Recommended Treatmen Foliar Spray

Species Recorded JKT

Infestation Outside Fenceline No

Measured Area 4.28

ITM X / ITMY 167413.7844

Notes New location 2020. Two stands of Japanese Knotweed on river bank. Query

for inclusion 2020

Photos





73409.2222

Supplementary photos

N/A

STATUS

NOT INCLUDED



SiteID

J5202

Drawing Number

bride_007

Contractor Name

Japanese Knotweed Ireland Ltd

Surveyor Name

John Walsh

Survey Date/Time

25/05/2020 09:28:00

Recommended Treatmen

Foliar Spray

Species Recorded

JKT

Infestation Outside Fenceline

Yes

Measured Area

17.55

ITM X / ITMY

167451.8558

73667.9007

Notes

New location 2020. Japanese knotweed growing near the road. New growth. Query for inclusion 2020

Photos



Supplementary photos

N/A

STATUS

NOT INCLUDED