

APPENDIX R Great Crested Newt HSI Results

Pond 1 The Old Brickyard Farm Northeast Pond

Background Information						2021
Pond Number:	1	Site name:	The Old Brickworks			
National Grid Ref:	SU 75205 08507					
Landowner:	Grant and Jayne Copper					
Access:	The Old Brickyard Farm, Monks Hill, Westborne					
Distance from site:	~ 250m from proposed site boundary					
Habitat Suitability						
Waterbody screen out / HSI-value						Key reason
Location (SI ₁):	Zone A (Optimal)					1
Pond Area (SI ₂):	Approximately 170m ² (0.01 hectares)					0.2
Permanence (SI ₃):	Dries annually					0.1
	[Dry during HSI assessment]					X
Water Quality (SI ₄):	Bad					0.01
Shading (SI ₅):	~ 90% (mature broadleaved trees)					0.4
Waterfowl (SI ₆):	Minor (Mallard pair present)					0.67
Fish (SI ₇):	None observed					1
Pond Density (SI ₈):	0.96/km ²					0.65
Habitat (SI ₉):	Good					1
Macrophytes (SI ₁₀):	None observed					0.3
Survey results:	Poor suitability HSI Score					0.32
Surveyors	Date	Eggs	Torching	Traps	Min/max	Other information
Andy Rothwell	13/04/2021	-	-	-	-	HSI Assessment
Presence / absence: Pond screened out due to no water and overall poor suitability.						

Pond 1 13th April 2021



Pond 2: Old Brickyard Farm South West

Background Information					2021	
Pond Number:	2	Site name:	The Old Brickworks			
National Grid Ref:	SU 75217 08477					
Landowner:	Grant and Jayne Copper					
Access:	The Old Brickyard Farm, Monks Hill, Westborne					
Distance from site:	~ 235m from proposed site boundary					
Habitat Suitability						
waterbody screen out / HSI-value						Key reason
Location (SI ₁):	Zone A (Optimal)					1
Pond Area (SI ₂):	Approximately 165m ² (0.01 hectares)					0.2
Permanence (SI ₃):	Dries rarely [Depth approximately 0.4m - Note deep silt layer below surface water column]					1
Water Quality (SI ₄):	Poor					0.33
	Turbidity 1					
Shading (SI ₅):	~ 30% (mature broadleaved trees)					1
Waterfowl (SI ₆):	Minor (Mallard pair present)					0.67
Fish (SI ₇):	None observed					1
Pond Density (SI ₈):	0.96/km ²					0.65
Habitat (SI ₉):	Good					1
Macrophytes (SI ₁₀):	~ 80% (Floating Sweet Grass, <i>Typha</i> , Marsh Marigolds, Water Starwort)					1
Survey results:	Good suitability HSI Score					0.7
Surveyors	Date	Eggs	Torching	Traps	Min/max	Other
Andy Rothwell	13/04/2021	0	-	-	-	HSI Assessment
Andy Rothwell taken	22/04/2021	0	-	-	8 / 10.5	eDNA samples
Presence / absence:						
eDNA samples taken at 08:45. Water temp 5.5 _ Air temp min 8, max 10.5.						
eDNA Results: Negative (assume GCN absent)						

Pond 2 (13th April 2021)



Pond 3 Old Dairy Farm

Background Information					2021	
Pond Number:	3	Site name:	Old Dairy Farm			
National Grid Ref:	SU 74846 08154					
Landowner:	Debbie and Adrian Williams					
Access:	Old Dairy Farm, Long Copse Lane, Havant					
Distance from site:	On site					
Habitat Suitability						
waterbody screen out / HSI-value						Key reason
Location (SI ₁):	Zone A (Optimal)					1
Pond Area (SI ₂):	Approx 14m ² (0.001 hectares)					0.05
Permanence (SI ₃):	Never dries [Depth approx 0.5m - lined garden pond]					0.9
Water Quality (SI ₄):	Poor					0.33
	Turbidity 4					
Shading (SI ₅):	No shade					1
Waterfowl (SI ₆):	Minor (Mallard pair present)					0.67
Fish (SI ₇):	Minor (a couple of small of tench)					0.33
Pond Density (SI ₈):	0.96/km ²					0.65
Habitat (SI ₉):	Good					1
Macrophytes (SI ₁₀):	~ 70% (Hornwort, Water Forget-me-knots, Marsh Marigolds, Pond Lilies, Iris)					1
Survey results:	Below average suitability HSI Score					0.54
Surveyors	Date	Eggs	Torching	Traps	Min/max	Other
Andy Rothwell	13/04/2021	0	-	-	-	HSI Assessment
Andy Rothwell taken	22/04/2021	0	-	-	7.5 / 9	eDNA samples
Presence / absence:						
Palmate Newts present during HSI netting assessment.						
eDNA samples taken at 08:00. Water temp 7 °C Air temp min 7.5, max 9.						
eDNA Results: Negative (assume GCN absent)						

Pond 3 13th April 2021



Pond 4 Colman's Copse

Background Information		2021				
Pond Number:	4	Site name: Long Copse Lane				
National Grid Ref:	SU 74826 07910					
Landowner:	Colman Investments / Ian Judd and Partners LLP					
Access:	Long Copse Lane, Havant					
Distance from site:	On site					
Habitat Suitability						
Waterbody screen out / HSI-value						Key reason
Location (SI ₁):	Zone A (Optimal)					1
Pond Area (SI ₂):	Approximately 25m ² (0.002 hectares)					0.05
Permanence (SI ₃):	Sometimes dries [Depth approximately 0.5m during HSI assessment]					0.5
Water Quality (SI ₄):	Moderate					0.67
	Turbidity 4					
Shading (SI ₅):	~ 90% (mature broadleaved trees)					0.4
Waterfowl (SI ₆):	Minor (Mallard pair present)					0.67
Fish (SI ₇):	None observed					1
Pond Density (SI ₈):	0.96/km ²					0.65
Habitat (SI ₉):	Good					1
Macrophytes (SI ₁₀):	None observed [leaf litter only]					0.3
						X
Survey results:	Poor suitability HSI Score					0.49
Surveyors information						
	Date	Eggs	Torching	Traps	Min/max	Other
Andy Rothwell Assessment	13/04/2021	0	-	-	-	HSI
Andy Rothwell	10/05/2021	0	0	-	10.9	Torching only
Andy Rothwell taken	15/05/2021	0	-	-	10 / 11.4	eDNA samples
Presence / absence:						
Pond initially screened out due to no macrophytes, drying nature and overall poor suitability.						
Torching conditions Water temp 11 _ Air temp 10.9. Two male Palmate newts present						
eDNA samples taken at 10:00. Water temp 9 _ Air temp min 10, max 11.4.						
eDNA Results: Negative (assume GCN absent)						
Pond initially screened out due to no macrophytes, drying nature and overall poor suitability.						
Torching conditions Water temp 11 _ Air temp 10.9. Two male Palmate newts present						
eDNA samples taken at 10:00. Water temp 9 _ Air temp min 10, max 11.4.						

Pond 4 13th April 2021

