Road Core Log									
Road Nam	ne		M4 Prince of W	/ales Bridge		Road type		Motorway	
Coring Da	ite		11/03/2024			Traffic Direction		Eastbour	nd
Coring Tir	me		23:00	Date Logged	19/03/2024	Carriageway		Gwent At	putment
Core Ref.			GA-E01	Network Reference	N/A	Carriageway	location	Lane 3	
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
Road condition: Good									
		L	ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	50	50	WC/HRA	N	<15	CR	Y	<5% voids
2	50	220	170	RB / DBM	N	<25	CR	Y	<25% voids
3	220	380	160	RB / DBM	N	<32	CR	Y	<20% voids
4	380	N/A	N/A	SB	N	N/A	CR	N/A	

#### Key :

Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N)

TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E01



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E01



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E01

Road Core Log									
Road Name M4 Prince of Wales Bridge					Road type		Motorway		
Coring Da	ate		11/03/2024			Traffic Direc	tion	Eastbour	nd
Coring Ti	me		23:15	Date Logged	19/03/2024	Carriageway		Gwent Al	butment
Core Ref.			GA-E02	Network Reference	N/A	Carriageway	location	Central re	eservation
Core dian	neter		150mm	Coring type	Water flush	Weather		Rainy	
Road con	dition: Good			•				•	
			Layers			Aggi	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	25	25	WC/HRA	N	<5	CR	Y	<5% voids
2	25	80	55	RB / HDM	N	<25	CR	Y	<20% voids
3	80	N/A	N/A	SB	N	N/A	CR	N/A	
Key :   Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base.   Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.   Aggregate: CR = Crushed Rock. P = Pebbles.									
Reinstaten	ned. Core ur nent with rap	ndertaken in acc bid set concrete depth undertak	to 0.05m bgl and	EN 12697-27 [R HAPAS cold-lay	ef 4.N] and logged and spray sealant	in accordance in accordance	with: CS 229 with Series	9. 900 MCHW	(Ref 8N)

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E02



	Contract Name
	Contract ID:
	Client:
CC Ground Investigations Ltd	Hole ID:

ract Name:	SBIM PoW Bridge
ract ID:	C8248
it:	Amey
ID:	GA-E02



Core with PAK spray under UV light

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E02

Road Core Log									
Road Nam	Road Name M4 Prince of Wales Bridge				Road type		Motorwa	Motorway	
Coring Da	te		12/03/2024			Traffic Direct	ion	Eastbour	nd
Coring Tir	ne		00:00	Date Logged	19/03/2024	Carriageway		Gwent A	butment
Core Ref.			GA-E03	Network Reference	N/A	Carriageway	location	Lane 3	
Core diam	ieter		150mm	Coring type	Water flush	Weather		Rainy	
Road cond	dition: Good							•	
		L	ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	40	40	WC/HRA	N	<20	CR	Y	<10% voids
2	40	130	90	RB / HDM	N	<35	CR	Y	<15% voids Drilling induced debonding
3	130	260	130	RB / DBN	N	<20	CR	Y	
4	260	380	120	RB / DBN	N	<25	CR	Y	
5	380	N/A	N/A	SB	N	N/A	CR	N/A	

Key : Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E03



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E03



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E03

				Ro	ad Core L	og				
Road Nam	ie		M4 Prince of W	/ales Bridge		Road type		Motorway	Motorway	
Coring Da	Coring Date 12/03/2024				Traffic Direct	ion	Eastbour	nd		
Coring Tin	ne		00:15	Date Logged	19/03/2024	Carriageway		Gwent Al	putment	
Core Ref.			GA-E04	Network Reference	N/A	Carriageway	location	Central R	eservation	
Core diam	eter		150mm	Coring type	Water flush	Weather		Rainy		
Road cond	dition: Good	ł		•				•		
		l	ayers	-		Aggr	egate			
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments	
1	0	25	25	WC / HRA	N	<5	CR	Y		
2	25	80	55	RB / HRA	N	<20	CR	Y	<5% voids	
3	80	N/A	N/A	SB	N	N/A	CR	N/A		
Material: H Aggregate Remarks: Core retain	HRA = Hot ro : CR = Crus ned. Core un	blied asphalt. De shed Rock. P = 1 dertaken in acc	BM = Dense bitum Pebbles. ordance with BS E	inous macadan	aggregate). RB = R h. HDM = Heavy Du ef 4.N] and logged i r and spray sealant	ty Macadam. C	ONC = Co	ncrete. 9.	(Ref 8N)	

	Contract Name:	SBIM PoW Bridge	
	Contract ID:	C8248	
	Client:	Amey	
CC Ground Investigations Ltd	Hole ID:	GA-E04	



	Contract Name:	Shivi Povv Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E04





	Road Core Log								
Road Name M4 Prince of Wales Bridge				Road type		Motorway			
Coring Da	ite		12/03/2024			Traffic Direct	ion	Eastbour	nd
Coring Tir	ne		01:10	Date Logged	19/03/2024	Carriageway		Gwent A	butment
Core Ref.			GA-E05	Network Reference	N/A	Carriageway	location	Lane 3	
Core diam	ieter		150mm	Coring type	Water flush	Weather		Rainy	
Road cone	Road condition: Good								
		L	ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	50	50	WC/HRA	N	<15	CR	Y	<5% voids
2	50	165	115	RB / HDM	N	<30	CR	Y	<10% voids Drilling induced debonding
3	165	250	85	RB / HDM	N	<30	CR	Y	<15% voids
4	250	390	140	RB / DBM	N	<35	CR	Y	
5	390	N/A	N/A	SB	N	N/A	CR	N/A	

Key : Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge	
	Contract ID:	C8248	
	Client:	Amey	
CC Ground Investigations Ltd	Hole ID:	GA-E05	





CC Ground Investigations Ltd	

Contract Name:	SBIM PoW Bridge
Contract ID:	C8248
Client:	Amey
Hole ID:	GA-E05

				Ro	ad Core L	og			
Road Nan	ne		M4 Prince of W	/ales Bridge	Road type		Motorway	Motorway	
Coring Da	ate		12/03/2024			Traffic Direc	tion	Eastbour	nd
Coring Ti	me		01:30	Date Logged	19/03/2024	Carriageway		Gwent Al	butment
Core Ref.			GA-E06	Network Reference	N/A	Carriageway	location	Central R	Reservation
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
Road con	dition: Good	4		•					
			_ayers			Agg	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	30	30	WC/HRA	N	<5	CR	Y	<5% voids
2	30	80	50	RB / HDM	N	<15	CR	Y	<30% voids
3	80	N/A	N/A	SB	N/A	N/A	CR	N/A	
Material:	HRA = Hot re	Vearing course. olled asphalt. Df shed Rock. P =	3M = Dense bitum	l se (max 20mm inous macadan	I aggregate). RB = F n. HDM = Heavy Du	Road base. SB	= Sub- bas CONC = Co	e. ncrete.	1
Reinstaten	ned. Core ur nent with rap		to 0.05m bgl and		ef 4.N] and logged and spray sealant				(Ref 8N)





	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E06



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E06

				Ro	ad Core L	og			
Road Nam	ne		M4 Prince of W	/ales Bridge		Road type		Motorway	
Coring Da	ite		12/03/2024			Traffic Dire	ction	Eastbour	nd
Coring Tir	me		02:40	Date Logged	19/03/2024	Carriagewa	/	Gwent A	butment
Core Ref.			GA-E07	Network Reference	N/A	Carriagewa	/ location	Lane 3	
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
Road con	dition: Good	d.		•	•				
			_ayers			Agg	regate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)	Max size (mm)	Туре	<b>РАК</b> (Y/N)	Comments
1	0	40	40	WC/HRA	N	<20	CR	Y	
2	40	370	330	RB / HDM	N	<37	CR	Y	Drilling induced debonding
3	370	N/A	N/A	SB	N/A	N/A	CR	N/A	
Material: H Aggregate Remarks: Core retain Reinstaten	HRA = Hot ro : CR = Crus ned. Core ur nent with rap	olled asphalt. Di shed Rock. P =	BM = Dense bitum Pebbles. ordance with BS E to 0.05m bgl and	inous macadan	aggregate). RB = F n. HDM = Heavy Du ef 4.N] and logged v and spray sealant	ity Macadam.	CONC = Co with: CS 22	9.	(Ref 8N)
				Cont	ract Name	2:	SE	IM Po\	V Bridge
				Cont	ract ID:		C	248	

CC Ground Investigations Ltd

Contract Name:	SBIM PoW Bridge
Contract ID:	C8248
Client:	Amey
Hole ID:	GA-E07





Contract Name:	SBIM PoW Bridge		
Contract ID:	C8248		
Client:	Amey		
Hole ID:	GA-E07		



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E07

				Ro	ad Core L	og			
Road Name M4 Prince of Wales Bridge				Road type		Motorway	Motorway		
Coring Date 12/03/2024				Traffic Direc	tion	Eastbour	nd		
Coring Tir	me		02:55	Date Logged	19/03/2024	Carriageway		Gwent Al	outment
Core Ref.			GA-E08	Network Reference	N/A	Carriageway	location	Central re	eservation
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
Road con	dition: Good	4		•				-	
		-	Layers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	15	15	WC / HRA	N	<5	CR	Y	<30% voids
2	15	75	60	RB / HDM	N	<20	CR	Y	<30% voids
3	75	N/A	N/A	SB	N/A N/A		CR	N/A	
Material: I Aggregate Remarks: Core retain Reinstaten	HRA = Hot ro e: CR = Crus ned. Core un nent with rap	olled asphalt. Dl shed Rock. P =	BM = Dense bitum Pebbles. ordance with BS E to 0.05m bgl and	Ninous macadan	aggregate). RB = F n. HDM = Heavy Du ef 4.N] and logged v and spray sealant	ity Macadam. (	CONC = Co with: CS 22	ncrete. 9.	(Ref 8N)

	Contract Name:	SBIM PoW Bridge	
	Contract ID:	C8248	
	Client:	Amey	
CC Ground Investigations Ltd	Hole ID:	GA-E08	



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E08



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E08

				Ro	ad Core Lo	og			
Road Name M4 Prince of Wales Bridge		Road type		Motorwa	Motorway				
Coring Da	ite		12/03/2024			Traffic Direct	ion	Eastbour	nd
Coring Tir	ne		23:10	Date Logged	19/03/2024	Carriageway		Gwent A	butment
Core Ref.			GA-E09	Network Reference	N/A	Carriageway	location	Lane 3	
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
								. <b>I</b>	
Road con	dition: Good	b				_			
		I	_ayers	1	-	Aggr	egate	4	
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	40	40	WC / HRA	N	<15	CR	Y	15% voids
2	40	260	220	RB / HDM	N	<35	CR	Y	20% voids Drilling induced debonding Rebar at 130mm (45mm diameter)
3	260	380	120	RB / DBM	N	<30	CR	Y	20% voids Rebar at 330mm (45mm diameter)
4	380	N/A	N/A	SB	N/A	N/A	CR	N/A	
Key :	I	1	1	1	1	1	L	I	1

Key : Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.

Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E09



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E09



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-E09

				- KU	ad Core L			i	
Road Name M4 Prince of Wal				/ales Bridge	es Bridge Road type			Motorway	
Coring Date 13/03/2024					Traffic Direct	ion	Westbou	nd	
Coring Tir	me		23:40	Date Logged	19/03/2024	Carriageway		Gwent At	putment
Core Ref.			GA-W11	Network Reference	N/A	Carriageway	location	Central R	eservation
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
toad con	dition: Good					A			
			ayers		4	Aggr	egate	-	
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	30	30	WC/HRA	N	<5	CR	Y	
2	30	90	60	RB / HDM	N	<20	CR	Y	
3	90	N/A	N/A	N/A	N/A	N/A	CR	N/A	
Material: I Aggregate Remarks: Core retair Reinstaten	HRA = Hot ru e: CR = Crus ned. Core ur nent with rap	olled asphalt. DB shed Rock. P = F ndertaken in acco	BM = Dense bitum Pebbles. Ordance with BS E	inous macadan	aggregate). RB = R n. HDM = Heavy Du ef 4.N] and logged i v and spray sealant	ty Macadam. C	:ONC = Cor	ncrete.	(Ref 8N)
				Conti	ract Name	:	SB	IM PoV	V Bridge
									0

CC Ground Investigations Ltd

Contract Name:	SBIM PoW Bridge
Contract ID:	C8248
Client:	Amey
Hole ID:	GA-W11



CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W11







CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W11

Road Core Log										
Road Nam	ne		M4 Prince of V	/ales Bridge		Road type		Motorwa	Motorway	
Coring Da	ite		13/03/2024			Traffic Direct	ion	Westbou	nd	
Coring Tir	ne		23:25	Date Logged	19/03/2024	Carriageway		Gwent A	butment	
Core Ref.			GA-W12	Network Reference	N/A	Carriageway	location	Lane 3		
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy		
Road con	dition: Good	4								
itodd com			.ayers			Aggr	egate			
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments	
1	0	40	40	WC/HRA	N	<15	CR	Y	30% voids	
2	40	130	90	RB / HDM	N	<30	CR	Y	30% voids Drilling induced debonding	
3	130	260	130	RB / HDM	N	<30	CR	Y	40% voids	
4	260	380	120	RB / DBM	N	<40	CR	Y	30% voids	
5	380	N/A	N/A	SB	N/A	N/A	CR	N/A		
			•	•	•			•		

Key : Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. BDM = Dasse bituminous macadam. HDM = Heavy Duty Macadam. CONC = Conc Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W12



CC
CC Ground Investigations Ltd

Contract Name:	SBIM PoW Bridge
Contract ID:	C8248
Client:	Amey
Hole ID:	GA-W12



CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W12

Road Core Log									
Road Nan	ne		M4 Prince of W	/ales Bridge		Road type Motorway		/	
Coring Da	ate		14/03/2024			Traffic Direct	ion	Westbou	nd
Coring Ti	me		00:30	Date Logged	19/03/2024	Carriageway		Gwent At	putment
Core Ref.			GA-W13	Network Reference	N/A	Carriageway	location	Central R	eservation
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
Road con	dition: Good	<b>ا</b>							
		L	ayers.			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	50	50	WC/HRA	N	<20	CR	Y	3% voids
2	50	250	200	RB / HDM	N	<30	CR	Y	15% voids
3	250	370	120	RB / DBM	N	<35	CR	Y	15% voids
4	370	N/A	N/A	SB	N/A	N/A	CR	N/A	

#### Key :

Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N)

TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-W13



CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W13



CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge								
	Contract ID:	C8248								
	Client:	Amey								
	Hole ID:	GA-W13								
				Ro	ad Core L	og				
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Road Nan	ne		M4 Prince of V	/ales Bridge		Road type		Motorway	Motorway	
Coring Da	ate		13/03/2024			Traffic Direc	tion	Westbou	nd	
Coring Ti	me		23:55	Date Logged	19/03/2024	Carriageway		Gwent Al	butment	
Core Ref.			GA-W14	Network Reference	N/A	Carriageway	location	Lane 3		
Core dian	neter		150mm	Coring type	Water flush	Weather		Rainy		
Road con	dition: Good	d								
			Layers			Aggr	regate			
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Key	Max size (mm)	Туре	PAK (Y/N)	Comments	
1	0	15	15	WC/HRA	N	<3	CR	Y	30% voids	
2	15	100	85	RB / DBM	N	<15	CR	Y	35% voids	
3	100	N/A	N/A	SB	N/A	N/A	CR	N/A		
Material:	HRA = Hot re	Vearing course. olled asphalt. Dl shed Rock. P =	BM = Dense bitum	l se (max 20mm inous macadan	aggregate). RB = F n. HDM = Heavy Du	Road base. SB	= Sub- bas CONC = Co	e. ncrete.	1	
Reinstaten	ned. Core ur nent with rap		to 0.05m bgl and		ef 4.N] and logged and spray sealant				(Ref 8N)	





	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-W14



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-W14

				Ro	ad Core L	og			
Road Nam	ie		M4 Prince of W	/ales Bridge	ridge Road type			Motorway	
Coring Date 14/03/2024		14/03/2024			Traffic Direct	ion	Westbou	nd	
Coring Tin	ne		01:20	Date Logged	19/03/2024	Carriageway		Gwent Al	outment
Core Ref.			GA-W15	Network Reference	N/A	Carriageway	location	Central re	eservation
Core diam	eter		150mm	Coring type	Water flush	Weather		Rainy	
Road cond	dition: Good	1		-				•	
		L	ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	15	15	WC/HRA	N	<5	CR	Y	
2	15	70	55	RB / HDM	N	<30	CR	Y	
3	70	N/A	N/A	SB	N/A	N/A	CR	N/A	
Material: ⊢ Aggregate Remarks: Core retain Reinstatem	HRA = Hot ro :: CR = Crus ned. Core un nent with rap	blled asphalt. DE shed Rock. P = F dertaken in acco	BM = Dense bitum Pebbles. ordance with BS E to 0.05m bgl and I	inous macadan	aggregate). RB = F h. HDM = Heavy Du ef 4.N] and logged v and spray sealant	ity Macadam. C	:ONC = Cor vith: CS 229	ncrete.	(Ref 8N)
				Cont	ract Name		SB	IM PoV	V Bridge

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-W15





Contract Name:	SBIM PoW Bridge		
Contract ID:	C8248		
Client:	Amey		
Hole ID:	GA-W15		





#### Reinstatement

Core with	PAK Spray	under l	UV liaht
0010 1111	i / li Copiaj	anaon	ov ngrit

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-W15

				Ro	ad Core Lo	og			
Road Nam	Road Name M4 Prince of Wales Bridge			Road type		Motorwa	Motorway		
Coring Da	ite		14/03/2024			Traffic Direct	ion	Westbou	nd
Coring Tir	ne		00:55	Date Logged	19/03/2024	Carriageway		Gwent A	butment
Core Ref.			GA-W16	Network Reference	N/A	Carriageway location		Lane 3	
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
					<b>I</b>			•	
Road con	dition: Good	t in the second se						1	
		L	.ayers			Aggr	egate	-	
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	40	40	WC / HRA	N	<20	CR	Y	3% voids
2	40	260	220	RB / HDM	N	<30	CR	Y	30% voids Drilling induced debonding Rebar at 170mm (45mm diameter)
3	260	360	100	RB / DBM	N	<30	CR	Y	15% voids
4	360	N/A	N/A	SB	N/A	N/A	CR	N/A	

#### Key :

**Road Layers:** WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. **Material:** HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.

Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

Contract Name:SBIM PoW BridgeContract ID:C8248Client:AmeyHole ID:GA-W16



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-W16



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	GA-W16

		i			ad Core Lo	<u> </u>		Î		
Road Name M4			M4 Prince of Wales Bridge			Road type		Motorway	Motorway	
Coring Da	ite		14/03/2024			Traffic Direct	ion	Westbou	nd	
Coring Tir	ne		02:25	Date Logged	19/03/2024	Carriageway		Gwent A	outment	
Core Ref.			GA-W17	Network Reference	N/A	Carriageway	location	Central re	eservation	
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy		
				•				•		
Road con	dition: Good									
		L	ayers	İ	-	Aggr	egate			
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments	
1	0	15	15	WC/HRA	N	<5	CR	Y		
2	15	90	75	RB / HRA	N	<10	CR	Y	5% voids	
3	90	N/A	N/A	SB	N/A	N/A	CR	N/A		
Material:	HRA = Hot ro	/earing course. I blied asphalt. DE shed Rock. P = F	BM = Dense bitum	se (max 20mm iinous macadan	aggregate). RB = R n. HDM = Heavy Du	oad base. SB : ty Macadam. C	= Sub- bas CONC = Co	e. ncrete.		
Reinstaten	ned. Core un nent with rap	dertaken in acco id set concrete t depth undertake	o 0.05m bgl and	EN 12697-27 [R HAPAS cold-lay	ef 4.N] and logged in and spray sealant i	n accordance v in accordance	with: CS 22 with Series	9. 900 MCHW	(Ref 8N)	

CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W17



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
CC Ground Investigations Ltd	Client:	Amey
	Hole ID:	GA-W17



CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W17

Road Core Log										
Road Nan	ne		M4 Prince of W	/ales Bridge		Road type Mo		Motorway	Votorway	
Coring Da	ite		14/03/2024			Traffic Direct	ion	Westbou	nd	
Coring Ti	me		01:45	Date Logged	19/03/2024	Carriageway		Gwent At	putment	
Core Ref.			GA-W18	Network Reference	N/A	Carriageway	location	Lane 3		
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy		
		<b>I</b>			I I			•		
Road con	dition: Good		ayers			Aggr	egate	1		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	Max size (mm)	Туре	PAK (Y/N)	Comments	
1	0	45	45	WC/HRA	N	<20	CR	Y		
2	45	125	80	RB / HDM	Ν	<37	CR	Y	2 and 3 are separate layers of same material	
3	125	370	245	RB / HDM	N	<37	CR	Y		
4	370	N/A	N/A	SB	N/A	N/A	CR	N/A		

#### Key :

Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N)

TRL-DCP test to 1.0m depth undertaken below core

CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W18



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CC Ground Investigations Ltd	Ца

Contract Name:	SBIM PoW Bridge	
Contract ID:	C8248	
Client:	Amey	
lole ID:	GA-W18	



CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	GA-W18

Road Core Log									
e		M4 Prince of W	/ales Bridge		Road type Motor		Motorway	otorway	
te		13/03/2024			Traffic Direct	ion	Eastbour	nd	
ne		00:50	Date Logged	19/03/2024	Carriageway		Avon Abu	utment	
		AA-E01	Network Reference	N/A	Carriageway	location	Lane 3		
eter		150mm	Coring type	Water flush	Weather		Rainy		
			I	<u> </u>					
lition: Good	ł			1			1		
	L	ayers			Aggr	egate			
Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments	
0	50	50	WC / HRA	N	<20	CR	Y		
50	250	200	RB / HDM	N	<30	CR	Y	Drilling disturbed debonding	
250	370	120	RB / HDM	N	<37	CR	Y		
370	N/A	N/A	SB	N/A	N/A	CR	N/A		
t	te t	Image       Ine       Ine	Image: Second	e       M4 Prince of Wales Bridge         ie       13/03/2024         ie       00:50       Date Goged         ie       AA-E01       Network Reference         eter       150mm       Coring type         Ition: Good         Thickness (mm)         Base (mm)       Thickness (mm)       Material Description (See Key below)         0       50       250       200       RB / HDM         250       370       120       RB / HDM	M4 Prince of Wales Bridge         ie       13/03/2024         ie       13/03/2024         ie       00:50       Date Logged       19/03/2024         ie       AA-E01       Network Reference       N/A         eter       150mm       Coring type       Water flush         ittion: Good       Coring type       Water flush         Top (mm)       Base (mm)       Thickness (mm)       Material Description (See Key below)         0       50       S0       N         20       250       S0       N         250       250       S0       N         250       370       120       RB / HDM       N	e M4 Prince of Wales Bridge Road type ie 13/03/2024 Traffic Direct ne 00:50 Date Logged 19/03/2024 Carriageway AA-E01 Network Reference N/A Carriageway eter 150mm Coring type Water flush Weather Itom: Good Top (mm) Base (mm) Thickness Material Description (See Key below) Debonded at Lower Interface (Y/N) Max size (mm) Coring type Address (Y/N) Address (Y/N) Address (Y/N) Aggr A	Road type         Road type         Traffic Direction         Traffic Direction         Is 00:50       Date Logged       19/03/2024       Carriageway tocation         tee       00:50       Date Logged       19/03/2024       Carriageway tocation         eter       150mm       Coring type       Water flush       Weather         Ition: Good         Top (mm)       Base (mm)       Thickness (mm)       Material Description (See Ky)       Debonded at Lower Interface (Y/N)       Max size (mm)       Type         0       50       50       S0         0       S0       S0       Coring type       Material Debonded at Lower Interface (Y/N)       Max size (mm)       Type         50       S0       S0       CCR         S0       S0       S0       CCR         S0		

#### Key :

Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N)

TRL-DCP test to 1.0m depth undertaken below core

CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	AA-E01





tract Name:	SBIM PoW Bridge
tract ID:	C8248
nt:	Amey
e ID:	AA-E01



Core with PAK Spray under UV light

CC Ground Investigations Ltd	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
	Hole ID:	AA-E01

Road Core Log									
Road Name M4 Prince of Wales Bridge					Road type		Motorway	Motorway	
Coring Da	te		13/03/2024			Traffic Direct	tion	Eastbour	nd
Coring Tin	ne		00:20	Date Logged	19/03/2024	Carriageway		Avon Abu	utment
Core Ref.			AA-E03	Network Reference	N/A	Carriageway	location	Lane 3	
Core diam	ieter		150mm	Coring type	Water flush	Weather		Rainy	
Road con	dition: Good	4		•					
Noad cont			.ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	40	40	WC/HRA	N	<20	CR	Y	
2	40	140	100	RB / HDM	N	<37	CR	Y	2 and 3 are separate layers of same material
3	140	230	90	RB / HDM	N	<37	CR	Y	
4	230	370	140	RB / DBM	N	<50	CR	Y	
5	370	N/A	N/A	SB	N/A	N/A	CR	N/A	

Key : Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-E03



CC
CC Ground Investigations Ltd

Contract Name:	SBIM PoW Bridge
Contract ID:	C8248
Client:	Amey
Hole ID:	AA-E03



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-E03

Road Core Log									
Road Name M4 Prince of Wale			/ales Bridge		Road type		Motorway		
Coring Date 15/03/2024					Traffic Direction		Westbound		
Coring Time 01:20			01:20	Date Logged	19/03/2024	Carriageway		Avon Abutment	
Core Ref.			AA-W05	Network Reference	N/A	Carriageway	location	Central reservation	
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
Road cond	dition: Good	Ł			I				
			_ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	55	55	WC / HRA	N	<20	CR	Y	
2	55	160	105	RB / HDM	N	<20	CR	Y	This layer continues but further core could not be retrieved
Material: H	HRA = Hot ro		3M = Dense bitum		I aggregate). RB = F n. HDM = Heavy Du				1
Remarks: Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) Unable to undertake TRL-DCP test at base of core as unable to retrieve base of core.									
	Contract Name: SBIM PoW Bridge								V Bridge
				Cont	ract ID:		C8	248	
				Clien	nt: A		An	ney	
CC G	iround	Investiga	tions Ltd	Hole	Hole ID:			AA-W05	





Contract Name:	SBIM PoW Bridge
Contract ID:	C8248
Client:	Amey
Hole ID:	AA-W05



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W05

		Road Core Log							
Road Name M4 Prince of Wales Bridge				Road type		Motorway			
Coring Date 15/03/2024					Traffic Direct	ion	Westbou	nd	
e		00:00	Date Logged	19/03/2024	Carriageway		Avon Abutment		
		AA-W06	Network Reference	N/A	Carriageway	location	Lane 3		
ter		150mm	Coring type	Water flush	Weather		Rainy		
Road condition: Good									
	L	ayers			Aggr	egate			
Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments	
0	50	50	WC/HRA	Ν	<10	CR	Y		
50	270	220	RB / HDM	N	<20	CR	Y	25% voids Drilling induced debonding	
270	360	90	RB / DBM	N	<15	CR	Y		
360	N/A	N/A	SB	N/A	N/A	CR	N/A		
e	ter tion: Gooo (mm) 0 50 270	Image: series of the series	a       15/03/2024         a       00:00         a       AA-W06         ter       150mm         tion: Good       Thickness         Top (mm)       Base (mm)       Thickness (mm)         0       50       50         50       270       220         270       360       90	i       i       i         i       i       i     <		In the second	Image: space of the system o	I = I = I = I = I = I = I = I = I = I =	

Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base.

Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.

Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229.

Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W06





Contract Name:	SBIM PoW Bridge	
Contract ID:	C8248	
Client:	Amey	
Hole ID:	AA-W06	



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W06

Road Core Log									
Road Nan	Road Name M4 Prince of Wales Bridge			Road type		Motorwa	Motorway		
Coring Da	ate		15/03/2024			Traffic Direct	ion	Westbou	Ind
Coring Ti	me		01:55	Date Logged	19/03/2024	Carriageway		Avon Ab	utment
Core Ref.			AA-W07	Network Reference	N/A	Carriageway	location	Central r	eservation
Core dian	neter		150mm	Coring type	Water flush	Weather		Rainy	
Road con	dition: Good	t t			F F			<b>I</b>	
		I	ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	55	55	WC / HRA	N	<20	CR	Y	
2	55	255	200	RB / HDM	N	<30	CR	Y	5% voids 2x large voids at base of layer (20-30mm diamete Drilling induced debondi
3	255	375	120	RB / DBM	N	<32	CR	Y	
			1			1			

Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.

**Aggregate:** CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229.

Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W07



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
CC Ground Investigations Ltd	Client:	Amey
	Hole ID:	AA-W07



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W07

Road Core Log									
Road Name M4 Prince of Wales Bridge				Road type		Motorway			
Coring Da	te		14/03/2024			Traffic Direct	ion	Westbou	nd
Coring Tin	ne		23:20	Date Logged	19/03/2024	Carriageway		Avon Abu	utment
Core Ref.			AA-W08	Network Reference	N/A	Carriageway	location	Lane 3	
Core diam	leter		150mm	Coring type	Water flush	Weather		Rainy	
Road cond	dition: Good	d		•				•	
		L	ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments
1	0	40	40	WC / HRA	Ν	<15	CR	Y	
2	40	190	150	RB / HDM	N	<35	CR	Y	Drilling disturbed debonding
3	190	380	190	RB / DBM	N	<25	CR	Y	
4	380	N/A	N/A	SB	N/A	N/A	N/A	N/A	
Key :		<u> </u>		I	<u> </u>	1	<u> </u>	I	1

Key : Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.

**Aggregate:** CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229.

Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
CC Ground Investigations Ltd	Client:	Amey
	Hole ID:	AA-W08



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W08



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W08

Road Core Log									
Road Nam	ie	M4 Prince of Wales Bridge				Road type		Motorway	
Coring Da	ite		15/03/2024			Traffic Direct	tion	Westbou	nd
Coring Tir	ne		02:30	Date Logged	19/03/2024	Carriageway		Avon Abi	utment
Core Ref.			AA-W09	Network Reference	N/A	Carriageway	location	Central re	eservation
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
		<b>I</b>		ł	•	<u></u>			
Road cond	dition: Good		_ayers			Aggr	egate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)		Туре	PAK (Y/N)	Comments
1	0	25	25	WC/HRA	N	<5	CR	Y	
2	25	70	45	RB / DBM	N	<25	CR	Y	10% voids
3	70	N/A	N/A	SB	N/A	N/A	CR	N/A	
Key :         Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base.         Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.         Aggregate: CR = Crushed Rock. P = Pebbles.         Remarks:         Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229.         Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N)         TRL-DCP test to 1.0m depth undertaken below core									
				Cont	ract Name	2:	SB	IM PoV	V Bridge
				Cont	ract ID:		C8	248	

CC Ground Investigations Ltd

Contract Name:	SBIN POW Bridge
Contract ID:	C8248
Client:	Amey
Hole ID:	AA-W09



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W09



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	AA-W09

Road Core Log									
Road Name M4 Prince of Wales Bridge					Road type		Motorway		
Coring Da	ite		14/03/2024			Traffic Direct	ion	Westbou	nd
Coring Tir	ne		22:50	Date Logged	19/03/2024 Carriageway		Avon Abı	utment	
Core Ref.			AA-W10	Network Reference	N/A Carriageway location		Lane 3	Lane 3	
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy	
Pood oon	dition: Good	4		I	FF			•	
			ayers				Aggregate		
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)		Туре	PAK (Y/N)	Comments
1	0	50	50	WC/HRA	N	<15	CR	Y	
2	50	233	183	RB / HDM	N	<40	CR	Y	3% voids
3	233	360	127	RB / DBM	N	<30	CR	Y	
4	360	N/A	N/A	SB	N/A	N/A	CR	N	

#### Key :

Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge	
	Contract ID:	C8248	
	Client:	Amey	
CC Ground Investigations Ltd	Hole ID:	AA-W10	





	Contract Name:	SBIM PoW Bridge	
	Contract ID:	C8248	
	Client:	Amey	
CC Ground Investigations Ltd	Hole ID:	AA-W10	

Road Core Log										
Road Name M4 Prince of Wales Bridge					Road type		Motorway			
Coring Da	ite		13/03/2024			Traffic Direction		Eastbour	d	
Coring Tir	me		02:40	Date Logged	19/03/2024	19/03/2024 Carriageway		Cable Sta	Cable Stay Bridge	
Core Ref.			CS-E02	Network Reference	N/A	Carriageway location		Lane 1		
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy		
Road con	dition: Good	4		•				•		
			_ayers			Aggr	egate			
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Low Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments	
1	0	55	55	WC/HRA	N	<15	CR	Y		
2	55	75	20	RB / DBM	N	<15	CR	Y	5% voids	
3	75	90	15	Cemented Sand	N	N/A	N/A	Y	Sand Carpet (APL)	
Key : Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base. Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete. Aggregate: CR = Crushed Rock. P = Pebbles.										

Remarks:

Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229. Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N) TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge	
	Contract ID:	C8248	
	Client:	Amey	
CC Ground Investigations Ltd	Hole ID:	CS-E02	



	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	CS-E02



	Contract Name:	SBIM PoW Bridge	
	Contract ID:	C8248	
	Client:	Amey	
CC Ground Investigations Ltd	Hole ID:	CS-E02	

				Ro	ad Core L	og				
Road Name M4 Prince of Wales Bridge					Road type		Motorway	Motorway		
Coring Da	ate		13/03/2024			Traffic Direct	ion	Eastbound	Eastbound	
Coring Tir	me		01:35	Date Logged	19/03/2024	Carriageway		Cable Sta	Cable Stay Bridge	
Core Ref.			CS-E05	Network Reference	N/A	Carriageway	location	Lane 1		
Core diam	neter		150mm	Coring type	Water flush	Weather		Rainy		
Road con	dition: Good			•	·					
			ayers			Aggr	egate			
Layer No.	Top (mm)	Base (mm)	Thickness (mm)	Material Description (See Key below)	Debonded at Lowe Interface (Y/N)	er Max size (mm)	Туре	PAK (Y/N)	Comments	
1	0	50	50	WC/HRA	N	<20	CR	Y		
2	50	90	40	RB / HRA	N	<15	CR	Y		
3	90	100	10	Cemented Sand	N	N/A	N/A	Y	Sand Carpet (APL)	
Material:	HRA = Hot re		3M = Dense bitum		aggregate). RB = R n. HDM = Heavy Du					

TRL-DCP test to 1.0m depth undertaken below core

	Contract Name:	SBIM PoW Bridge
	Contract ID:	C8248
	Client:	Amey
CC Ground Investigations Ltd	Hole ID:	CS-E05







