

Road Core Log


|               |                           |                   |             |                      |                |
|---------------|---------------------------|-------------------|-------------|----------------------|----------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway       |
| Coring Date   | 11/03/2024                |                   |             | Traffic Direction    | Eastbound      |
| Coring Time   | 23:00                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment |
| Core Ref.     | GA-E01                    | Network Reference | N/A         | Carriageway location | Lane 3         |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy          |

Road condition: Good

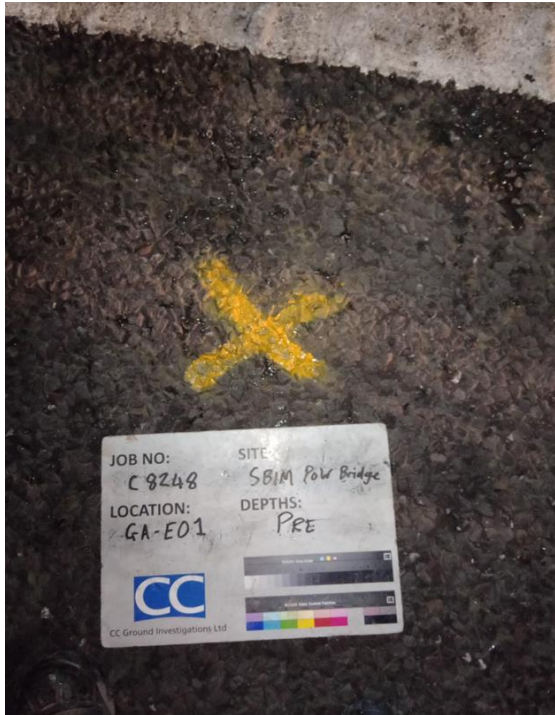
| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments   |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|------------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |            |
| 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

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

## Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

Contract Name:

SBIM PoW Bridge

Contract ID:

C8248

Client:

Amey

Hole ID:

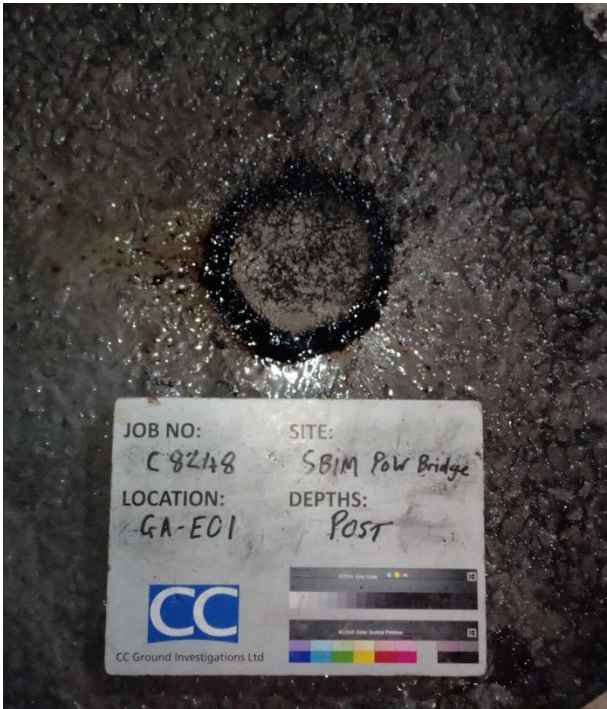
GA-E01



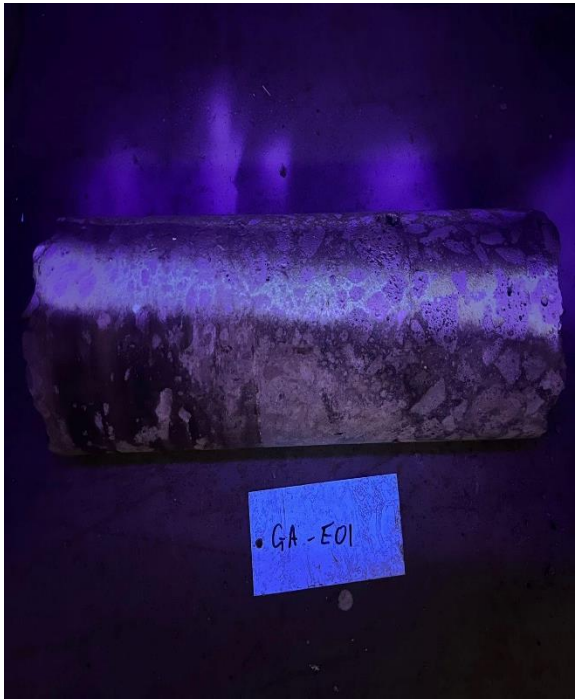
Road Core Log



Top of Core



Reinstatement



Core with PAK spray under UV light



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-E01          |

Road Core Log


|               |                           |                   |             |                      |                     |
|---------------|---------------------------|-------------------|-------------|----------------------|---------------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway            |
| Coring Date   | 11/03/2024                |                   |             | Traffic Direction    | Eastbound           |
| Coring Time   | 23:15                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment      |
| Core Ref.     | GA-E02                    | Network Reference | N/A         | Carriageway location | Central reservation |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy               |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments   |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|------------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |            |
| 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       |            |
|           |          |           |                |                                      |                                   |               |      |           |            |

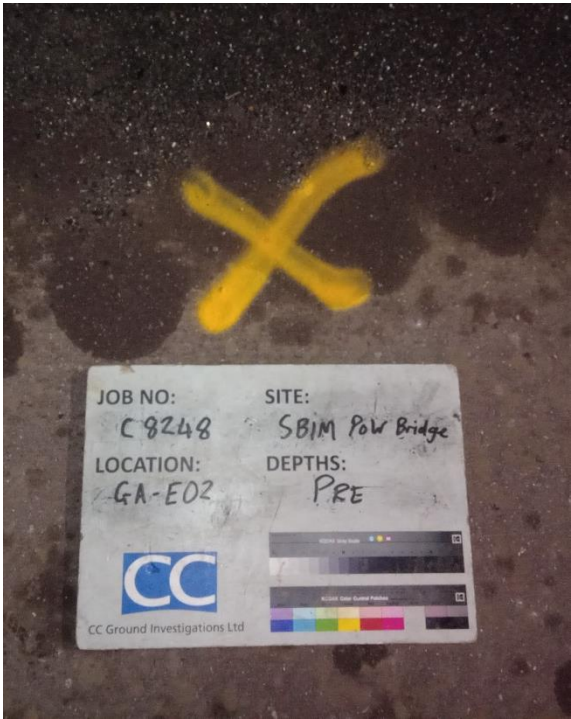
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**Aggregate:** CR = Crushed Rock. P = Pebbles.

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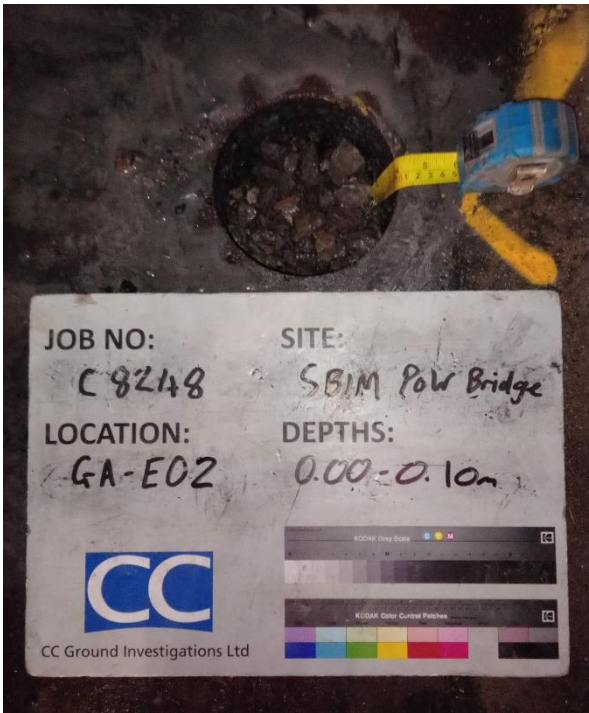
|   |                |                 |
|---|----------------|-----------------|
| <div><br/>CC Ground Investigations Ltd</div> | Contract Name: | SBIM PoW Bridge |
|   | Contract ID:   | C8248           |
|   | Client:        | Amey            |
|   | Hole ID:       | GA-E02          |



Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-E02          |



Road Core Log



Top of Core



Reinstatement



Core with PAK spray under UV light



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-E02          |

Road Core Log

|               |                           |                   |             |                      |                |
|---------------|---------------------------|-------------------|-------------|----------------------|----------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway       |
| Coring Date   | 12/03/2024                |                   |             | Traffic Direction    | Eastbound      |
| Coring Time   | 00:00                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment |
| Core Ref.     | GA-E03                    | Network Reference | N/A         | Carriageway location | Lane 3         |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy          |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments                                 |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|--|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |  |
| 1         | 0        | 40        | 40             | WC / HRA                             | N                                 | <20           | CR   | Y         | <10% voids                               |
| 2         | 40       | 130       | 90             | RB / HDM                             | N                                 | <35           | CR   | Y         | <15% voids<br>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       |  |

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**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:**  
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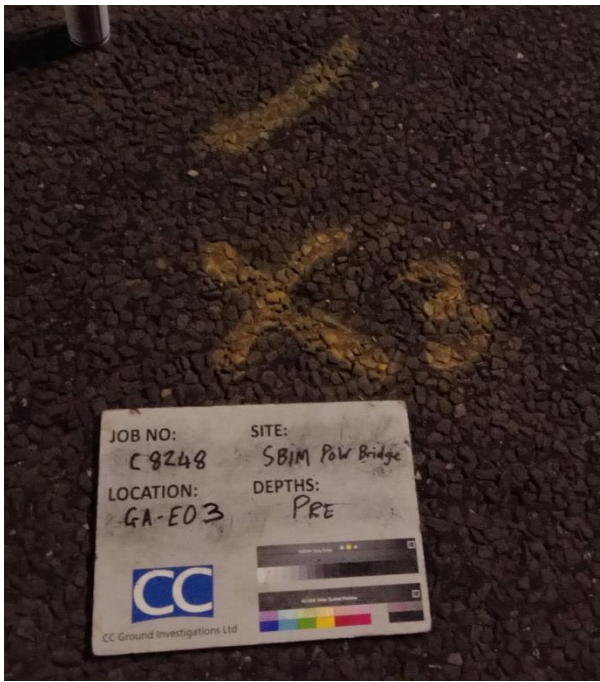


CC Ground Investigations Ltd

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



Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



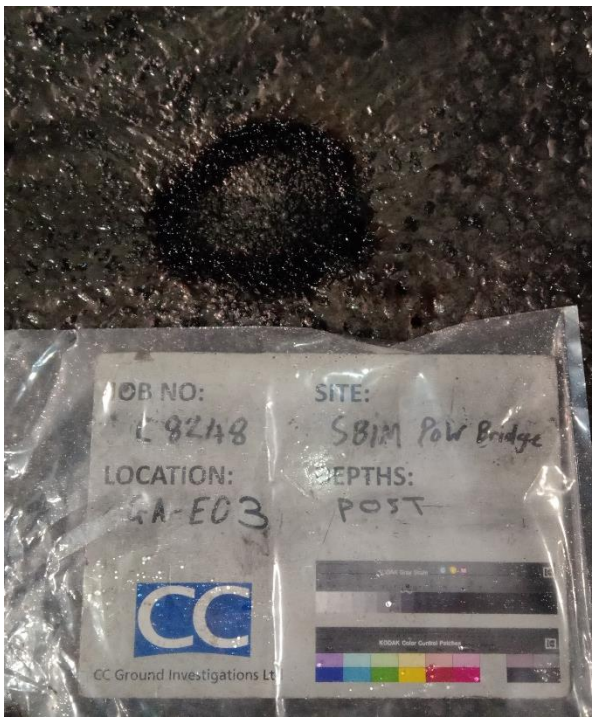
CC Ground Investigations Ltd

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

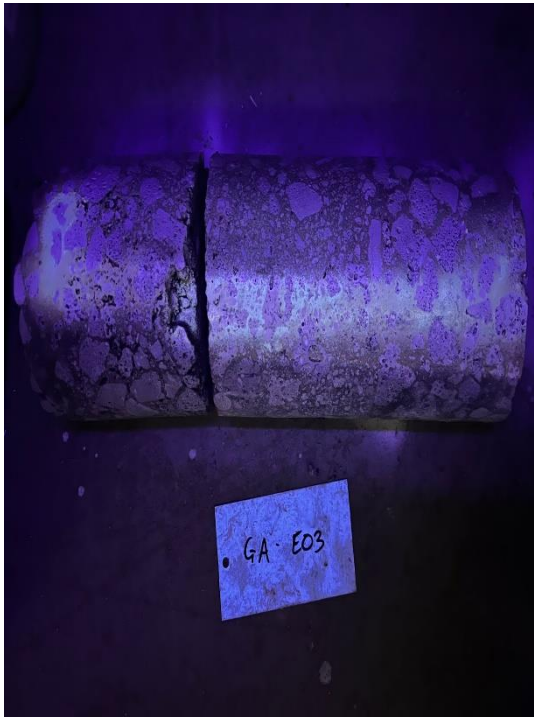
Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

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



Road Core Log


|               |                           |                   |             |                      |                     |
|---------------|---------------------------|-------------------|-------------|----------------------|---------------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway            |
| Coring Date   | 12/03/2024                |                   |             | Traffic Direction    | Eastbound           |
| Coring Time   | 00:15                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment      |
| Core Ref.     | GA-E04                    | Network Reference | N/A         | Carriageway location | Central Reservation |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy               |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments  |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|-----------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |           |
| 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       |           |
|           |          |           |                |                                      |                                   |               |      |           |           |

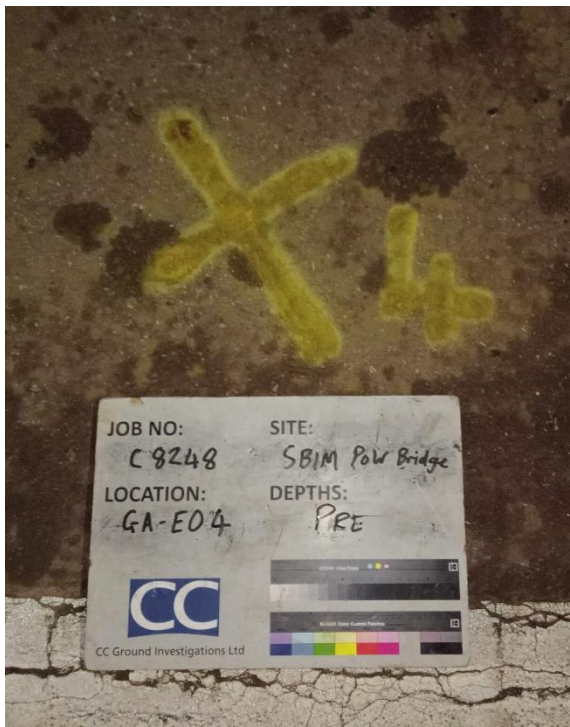
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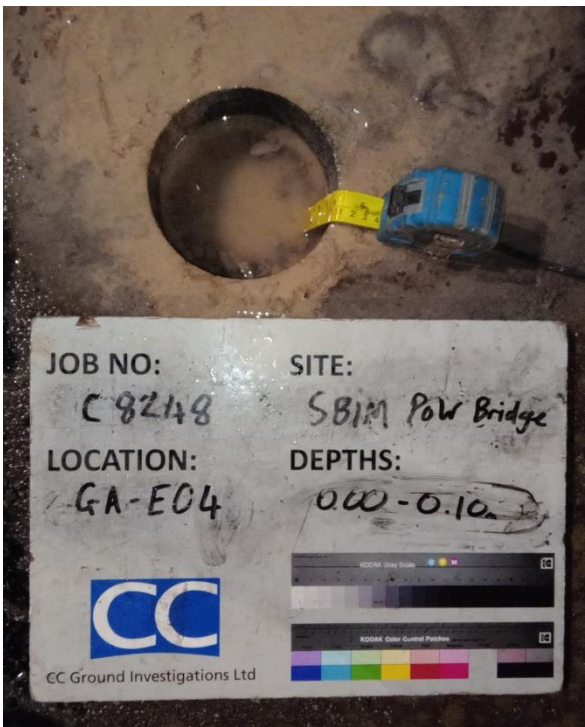
|   |                |                 |
|---|----------------|-----------------|
| <br>CC Ground Investigations Ltd | Contract Name: | SBIM PoW Bridge |
|   | Contract ID:   | C8248           |
|   | Client:        | Amey            |
|   | Hole ID:       | GA-E04          |



Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



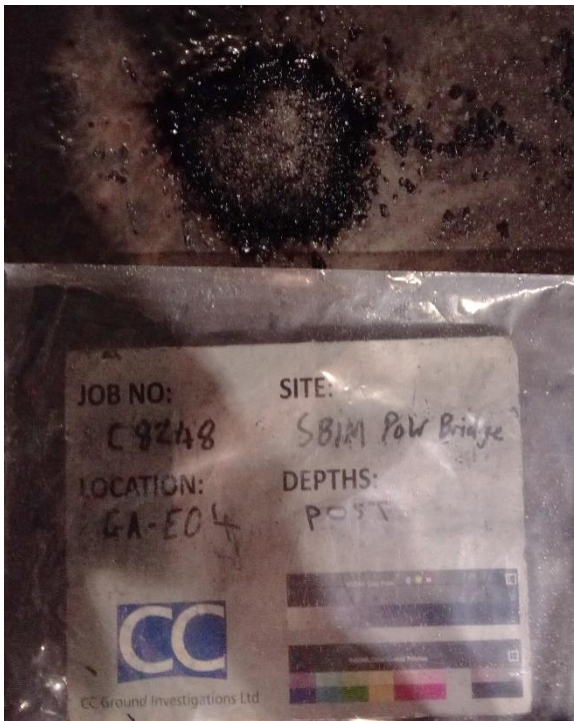
CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-E04          |

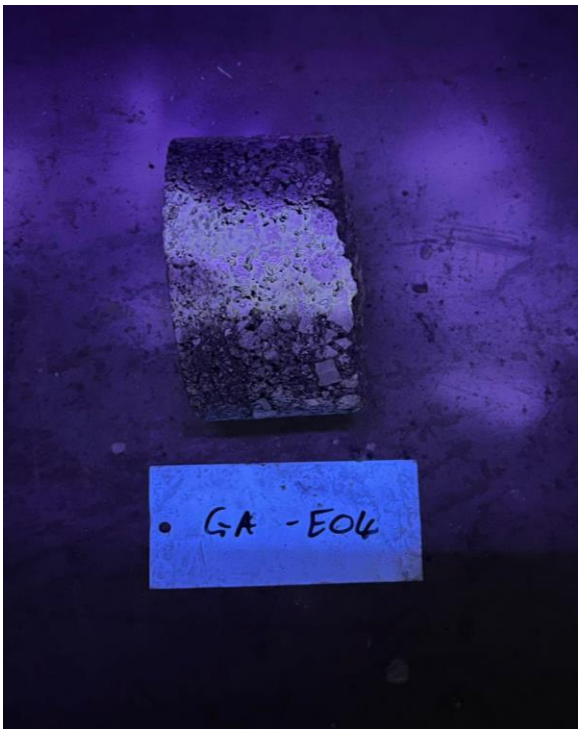
Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-E04          |



Road Core Log


|               |                           |                   |             |                      |                |
|---------------|---------------------------|-------------------|-------------|----------------------|----------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway       |
| Coring Date   | 12/03/2024                |                   |             | Traffic Direction    | Eastbound      |
| Coring Time   | 01:10                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment |
| Core Ref.     | GA-E05                    | Network Reference | N/A         | Carriageway location | Lane 3         |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy          |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments                                 |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|--|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |  |
| 1         | 0        | 50        | 50             | WC / HRA                             | N                                 | <15           | CR   | Y         | <5% voids                                |
| 2         | 50       | 165       | 115            | RB / HDM                             | N                                 | <30           | CR   | Y         | <10% voids<br>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       |  |

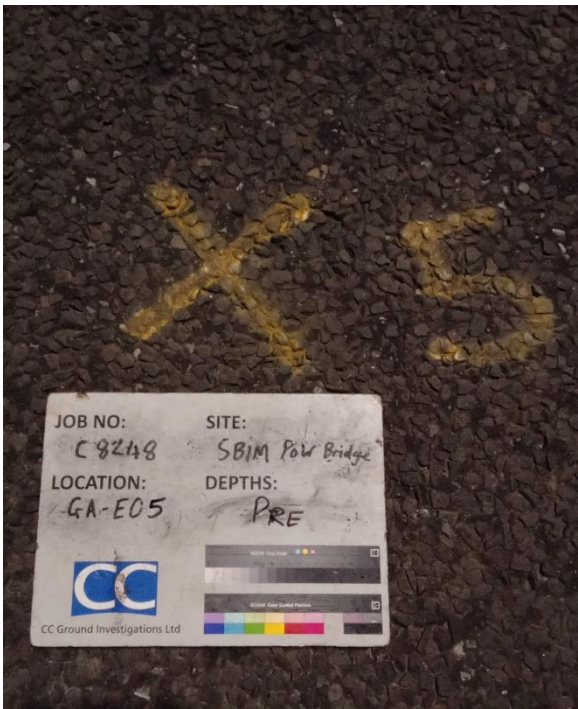
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**Aggregate:** CR = Crushed Rock. P = Pebbles.

**Remarks:**  
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TRL-DCP test to 1.0m depth undertaken below core

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



Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray

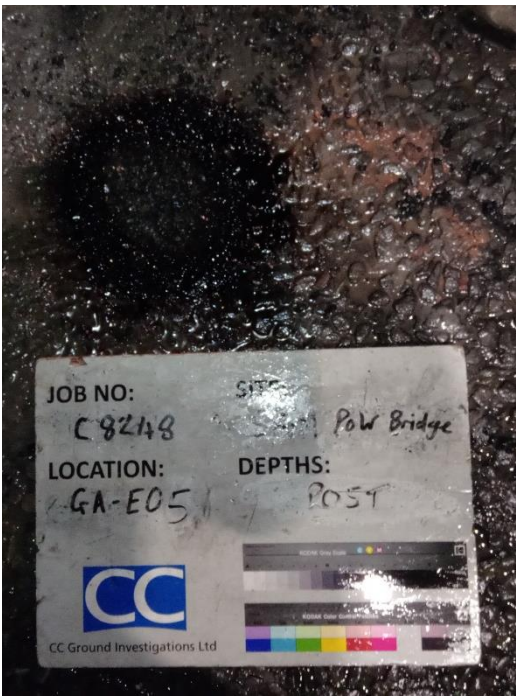


CC Ground Investigations Ltd

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



Road Core Log



Top of Core

Reinstatement



Core with PAK spray under UV light



CC Ground Investigations Ltd

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

Road Core Log

|               |                           |                   |             |                      |                     |
|---------------|---------------------------|-------------------|-------------|----------------------|---------------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway            |
| Coring Date   | 12/03/2024                |                   |             | Traffic Direction    | Eastbound           |
| Coring Time   | 01:30                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment      |
| Core Ref.     | GA-E06                    | Network Reference | N/A         | Carriageway location | Central Reservation |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy               |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments   |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|------------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |            |
| 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       |            |
|           |          |           |                |                                      |                                   |               |      |           |            |

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Material: HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.  
Aggregate: CR = Crushed Rock. P = Pebbles.

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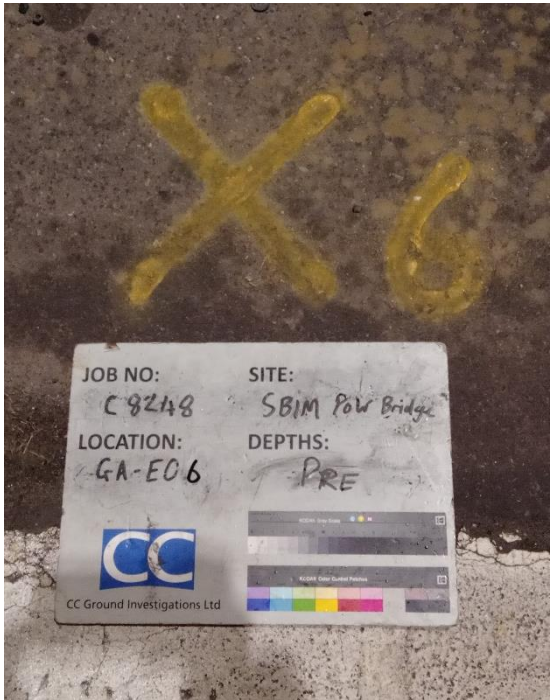


CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-E06          |



Road Core Log



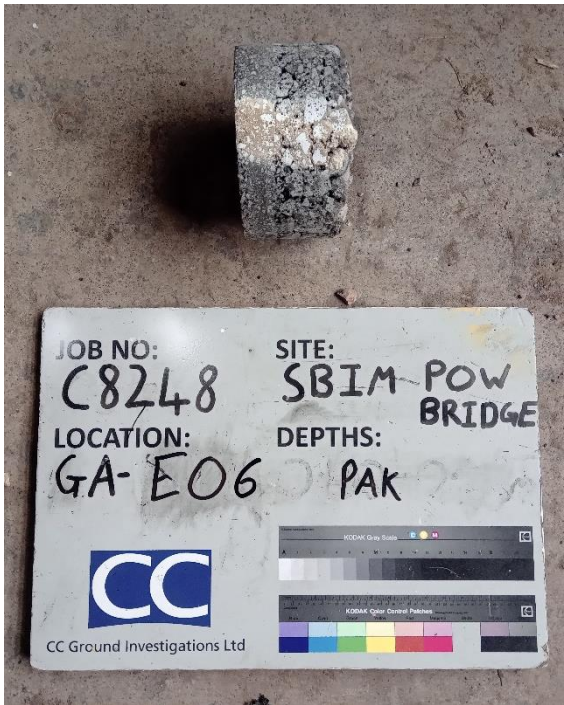
Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

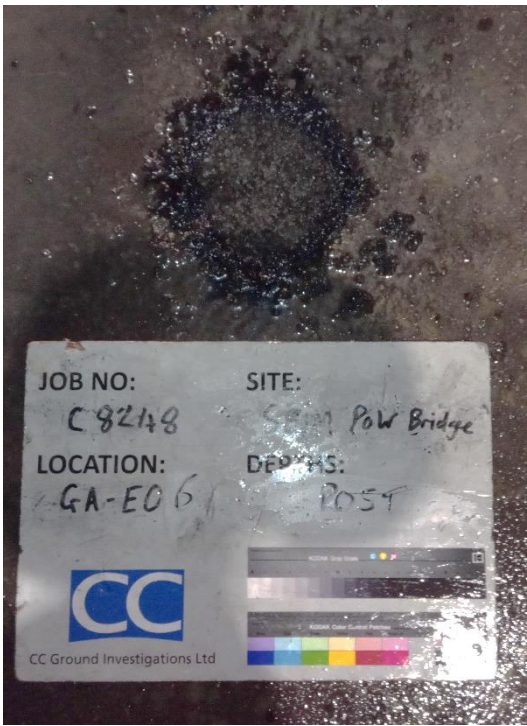
|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-E06          |



Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-E06          |



Road Core Log


|               |                           |                   |             |                      |                |
|---------------|---------------------------|-------------------|-------------|----------------------|----------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway       |
| Coring Date   | 12/03/2024                |                   |             | Traffic Direction    | Eastbound      |
| Coring Time   | 02:40                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment |
| Core Ref.     | GA-E07                    | Network Reference | N/A         | Carriageway location | Lane 3         |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy          |

Road condition: Good

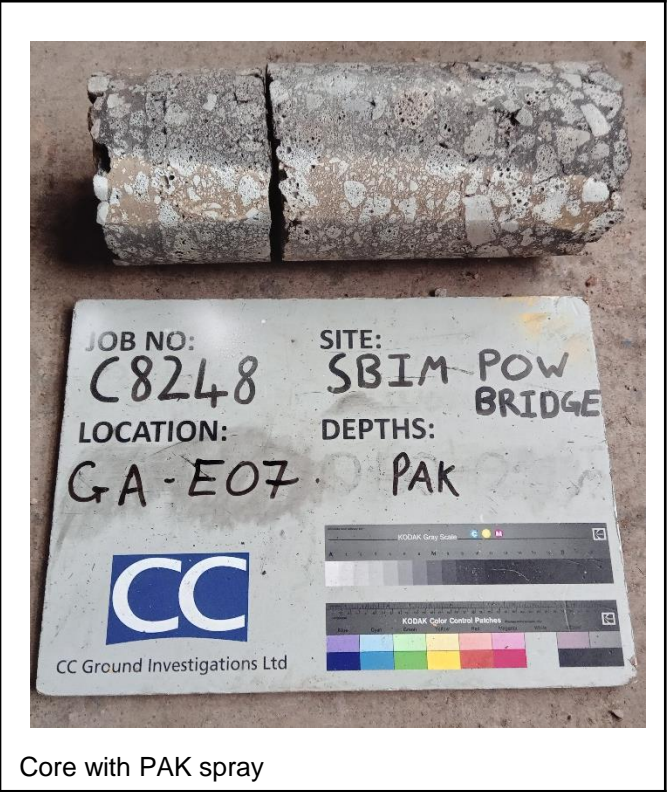
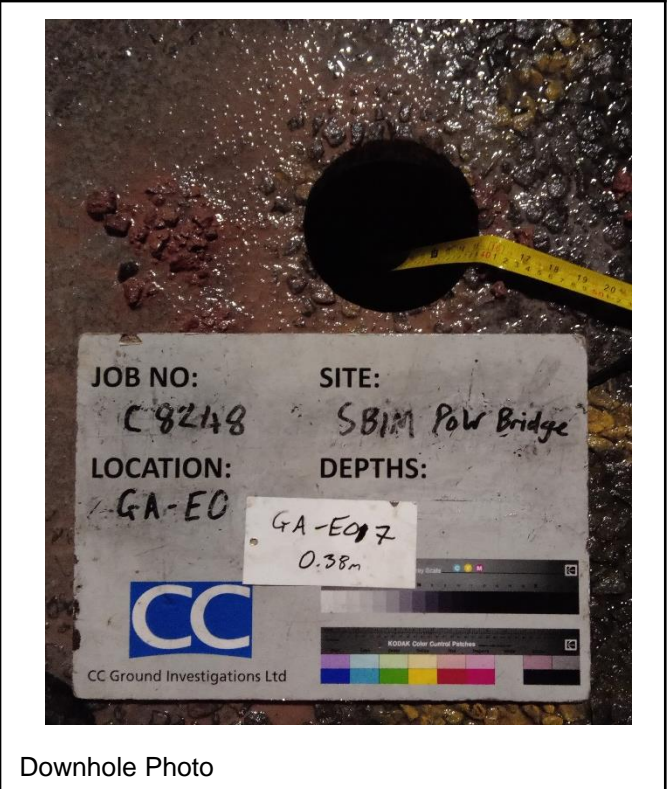
| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments                   |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|----------------------------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |                            |
| 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       |                            |
|           |          |           |                |                                      |                                   |               |      |           |                            |

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TRL-DCP test to 1.0m depth undertaken below core

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

Road Core Log



CC Ground Investigations Ltd

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



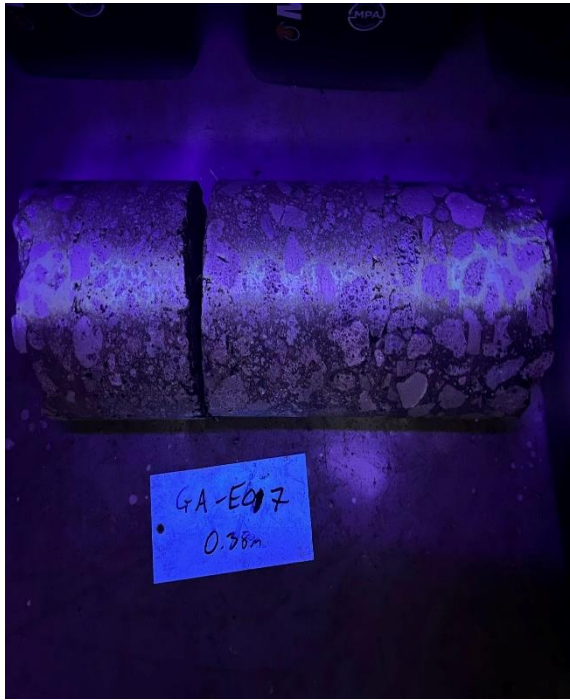
Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

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

Road Core Log

|               |                           |                   |             |                      |                     |
|---------------|---------------------------|-------------------|-------------|----------------------|---------------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway            |
| Coring Date   | 12/03/2024                |                   |             | Traffic Direction    | Eastbound           |
| Coring Time   | 02:55                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment      |
| Core Ref.     | GA-E08                    | Network Reference | N/A         | Carriageway location | Central reservation |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy               |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments   |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|------------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |            |
| 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       |            |
|           |          |           |                |                                      |                                   |               |      |           |            |

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-E08          |



Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

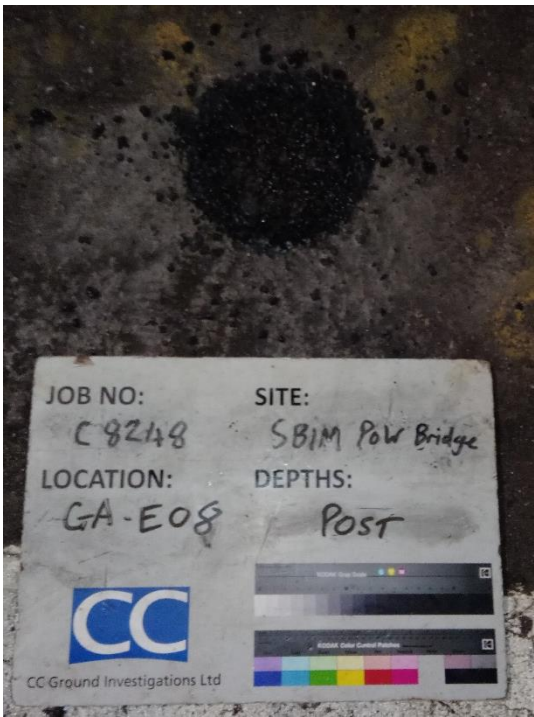
|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-E08          |



Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-E08          |



Road Core Log


|               |                           |                   |             |                      |                |
|---------------|---------------------------|-------------------|-------------|----------------------|----------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway       |
| Coring Date   | 12/03/2024                |                   |             | Traffic Direction    | Eastbound      |
| Coring Time   | 23:10                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment |
| Core Ref.     | GA-E09                    | Network Reference | N/A         | Carriageway location | Lane 3         |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy          |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments   |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|--|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |  |
| 1         | 0        | 40        | 40             | WC / HRA                             | N                                 | <15           | CR   | Y         | 15% voids  |
| 2         | 40       | 260       | 220            | RB / HDM                             | N                                 | <35           | CR   | Y         | 20% voids<br>Drilling induced debonding<br>Rebar at 130mm<br>(45mm diameter) |
| 3         | 260      | 380       | 120            | RB / DBM                             | N                                 | <30           | CR   | Y         | 20% voids<br>Rebar at 330mm<br>(45mm diameter)                               |
| 4         | 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.  
**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

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

Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

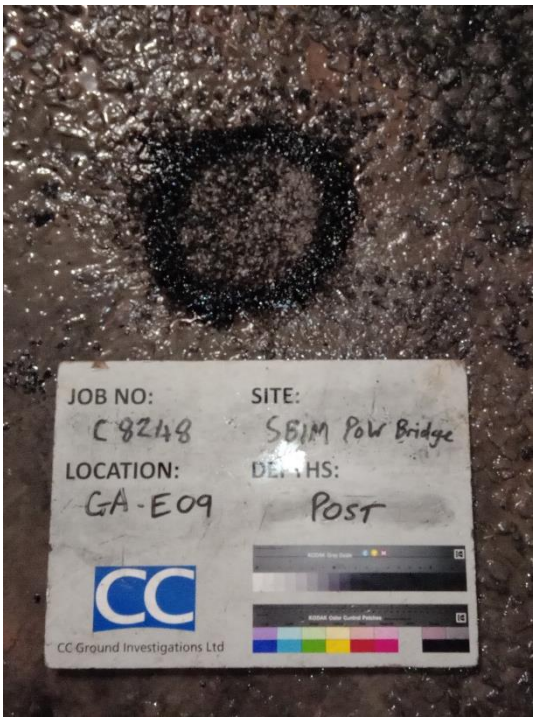
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|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-E09          |



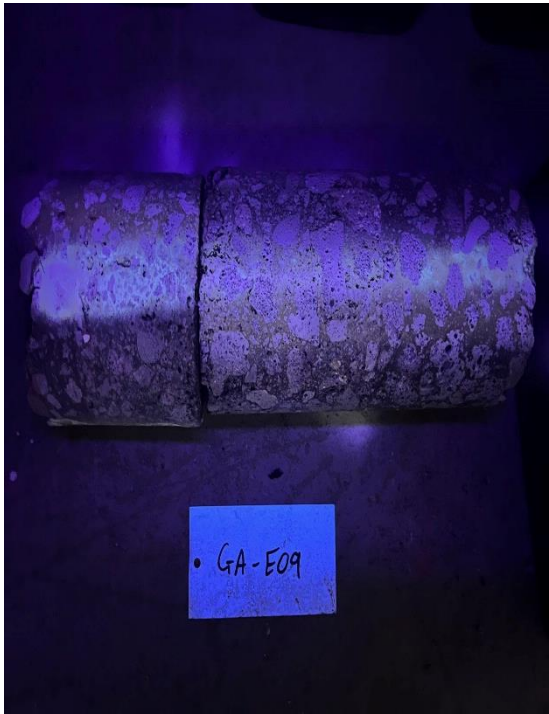
Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-E09          |

Road Core Log


|               |                           |                   |             |                      |                     |
|---------------|---------------------------|-------------------|-------------|----------------------|---------------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway            |
| Coring Date   | 13/03/2024                |                   |             | Traffic Direction    | Westbound           |
| Coring Time   | 23:40                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment      |
| Core Ref.     | GA-W11                    | Network Reference | N/A         | Carriageway location | Central Reservation |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy               |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|----------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |          |
| 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       |          |
|           |          |           |                |                                      |                                   |               |      |           |          |

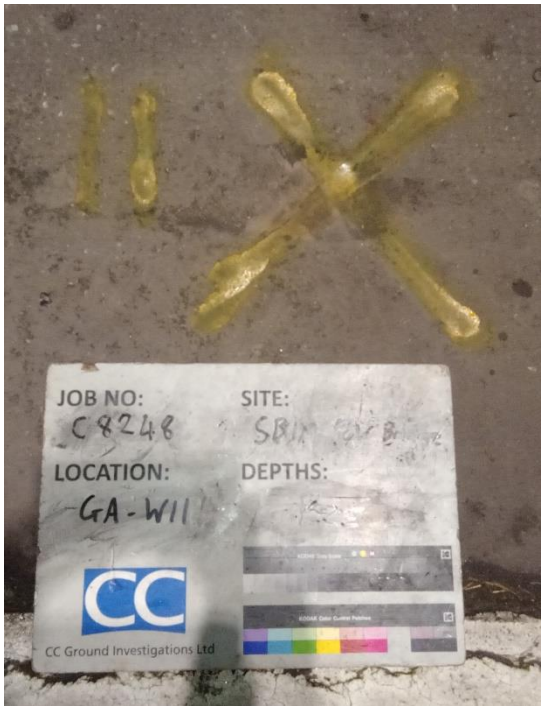
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**Material:** HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.  
**Aggregate:** CR = Crushed Rock. P = Pebbles.

**Remarks:**  
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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

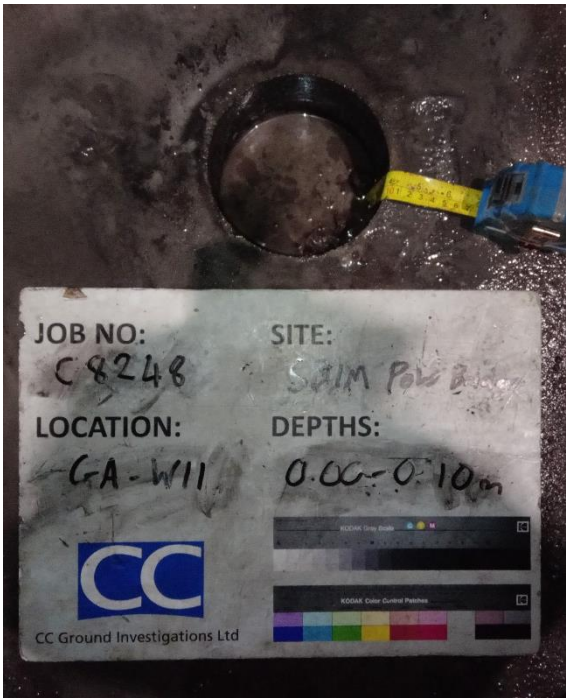
|   |                |                 |
|---|----------------|-----------------|
| <br>CC Ground Investigations Ltd | Contract Name: | SBIM PoW Bridge |
|   | Contract ID:   | C8248           |
|   | Client:        | Amey            |
|   | Hole ID:       | GA-W11          |



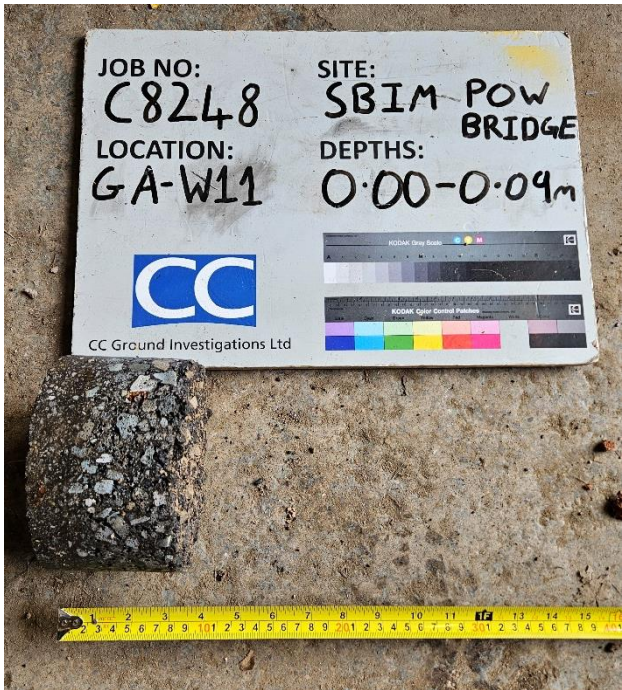
Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

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



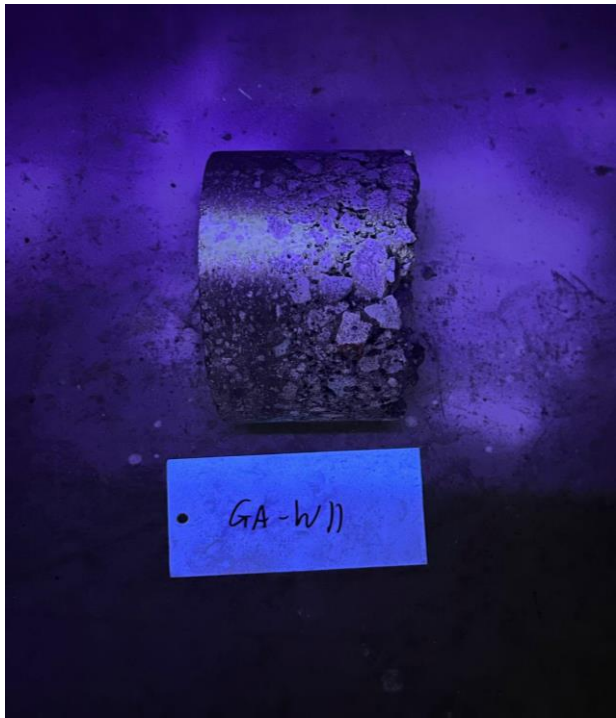
Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

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



Road Core Log

|               |                           |                   |             |                      |                |
|---------------|---------------------------|-------------------|-------------|----------------------|----------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway       |
| Coring Date   | 13/03/2024                |                   |             | Traffic Direction    | Westbound      |
| Coring Time   | 23:25                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment |
| Core Ref.     | GA-W12                    | Network Reference | N/A         | Carriageway location | Lane 3         |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy          |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments                                |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|---|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |   |
| 1         | 0        | 40        | 40             | WC / HRA                             | N                                 | <15           | CR   | Y         | 30% voids                               |
| 2         | 40       | 130       | 90             | RB / HDM                             | N                                 | <30           | CR   | Y         | 30% voids<br>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.  
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          |

Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

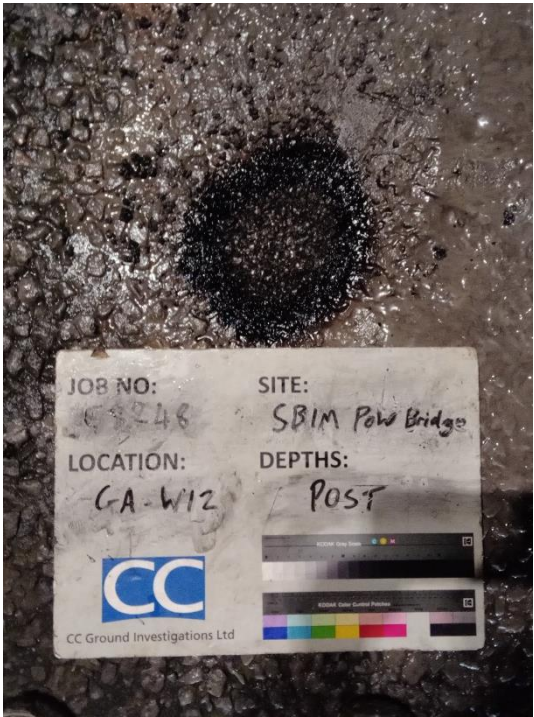
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|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-W12          |



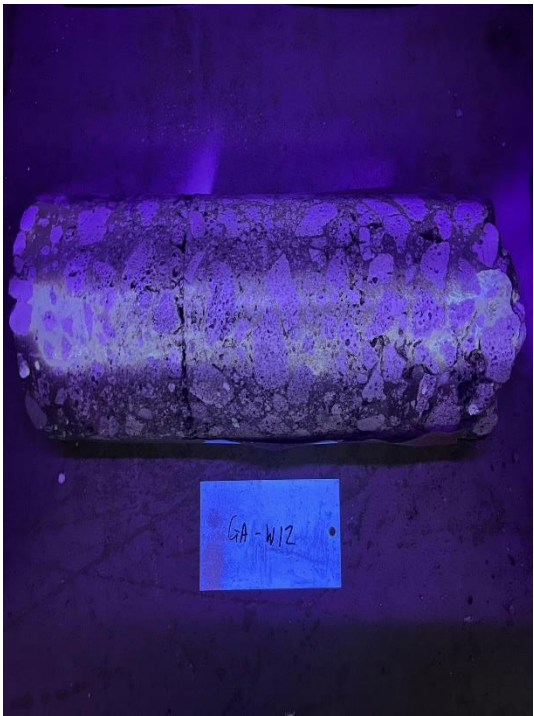
Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

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

Road Core Log

|               |                           |                   |             |                      |                     |
|---------------|---------------------------|-------------------|-------------|----------------------|---------------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway            |
| Coring Date   | 14/03/2024                |                   |             | Traffic Direction    | Westbound           |
| Coring Time   | 00:30                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment      |
| Core Ref.     | GA-W13                    | Network Reference | N/A         | Carriageway location | Central Reservation |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy               |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments  |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|-----------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |           |
| 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

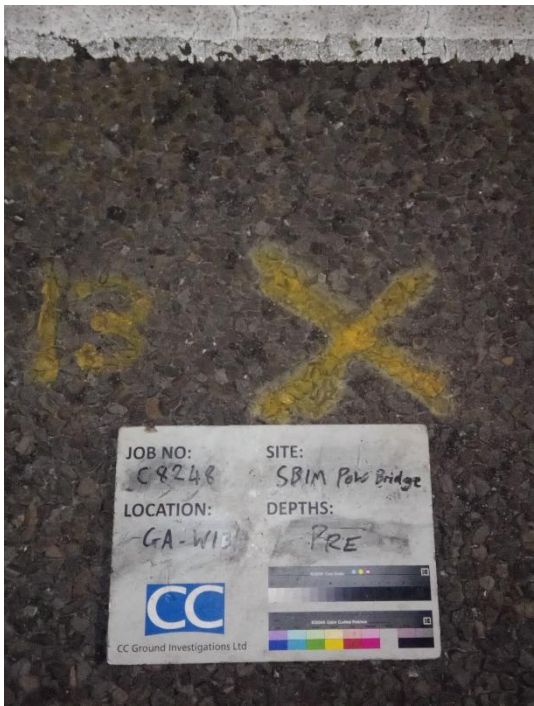


CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-W13          |



Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

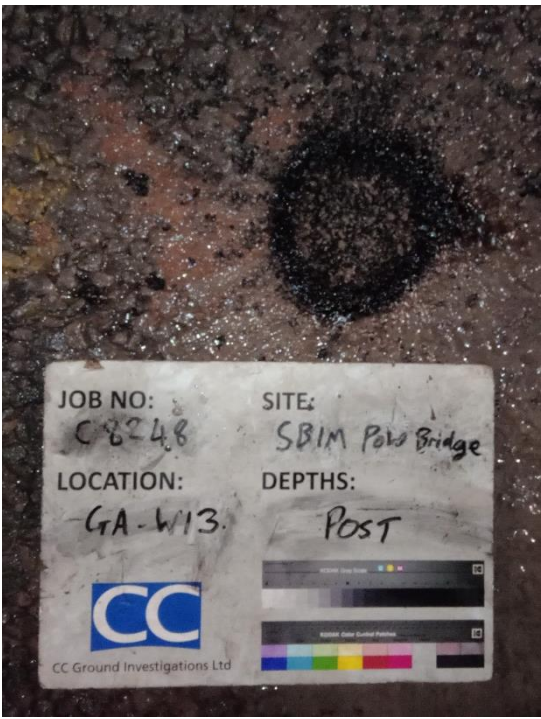
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|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-W13          |



Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-W13          |



Road Core Log


|               |                           |                   |             |                      |                |
|---------------|---------------------------|-------------------|-------------|----------------------|----------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway       |
| Coring Date   | 13/03/2024                |                   |             | Traffic Direction    | Westbound      |
| Coring Time   | 23:55                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment |
| Core Ref.     | GA-W14                    | Network Reference | N/A         | Carriageway location | Lane 3         |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy          |

Road condition: Good

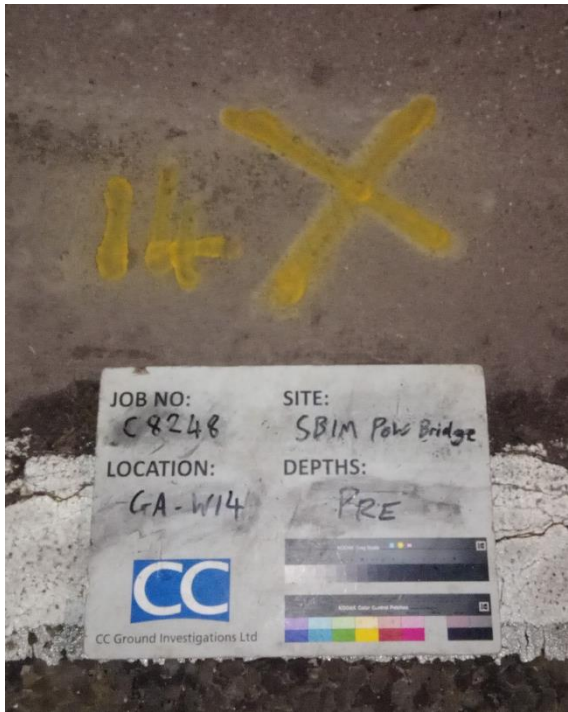
| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments  |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|-----------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |           |
| 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       |           |
|           |          |           |                |                                      |                                   |               |      |           |           |

Key :  
Road Layers: WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base.  
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Aggregate: CR = Crushed Rock. P = Pebbles.

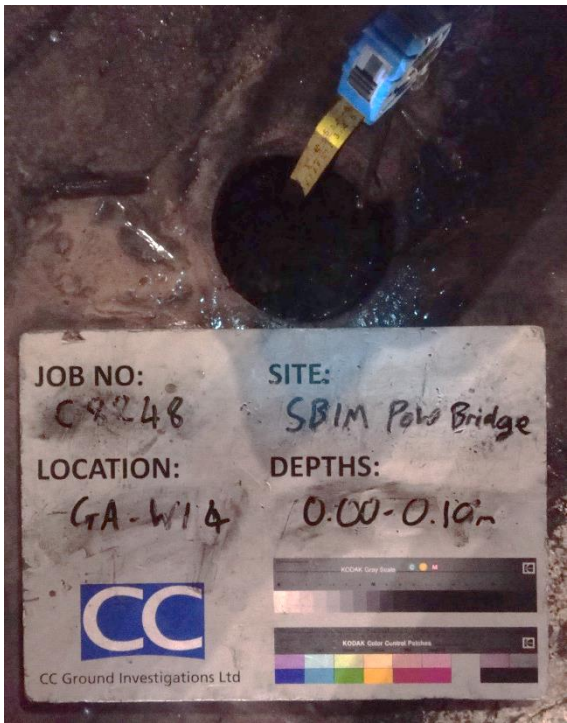
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TRL-DCP test to 1.0m depth undertaken below core

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

Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-W14          |



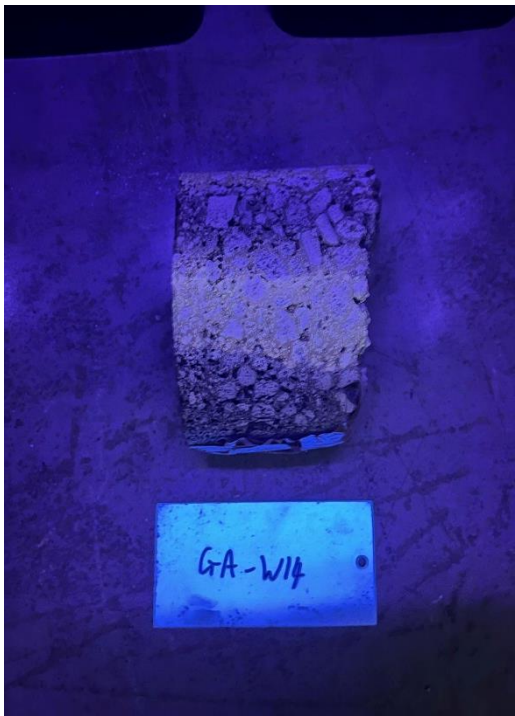
Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-W14          |

Road Core Log


|               |                           |                   |             |                      |                     |
|---------------|---------------------------|-------------------|-------------|----------------------|---------------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway            |
| Coring Date   | 14/03/2024                |                   |             | Traffic Direction    | Westbound           |
| Coring Time   | 01:20                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment      |
| Core Ref.     | GA-W15                    | Network Reference | N/A         | Carriageway location | Central reservation |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy               |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|----------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |          |
| 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       |          |
|           |          |           |                |                                      |                                   |               |      |           |          |

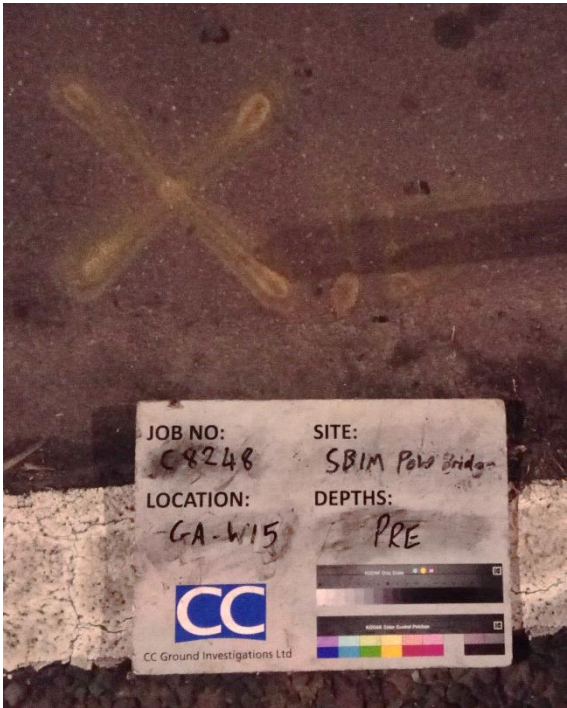
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**Aggregate:** CR = Crushed Rock. P = Pebbles.

**Remarks:**  
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TRL-DCP test to 1.0m depth undertaken below core

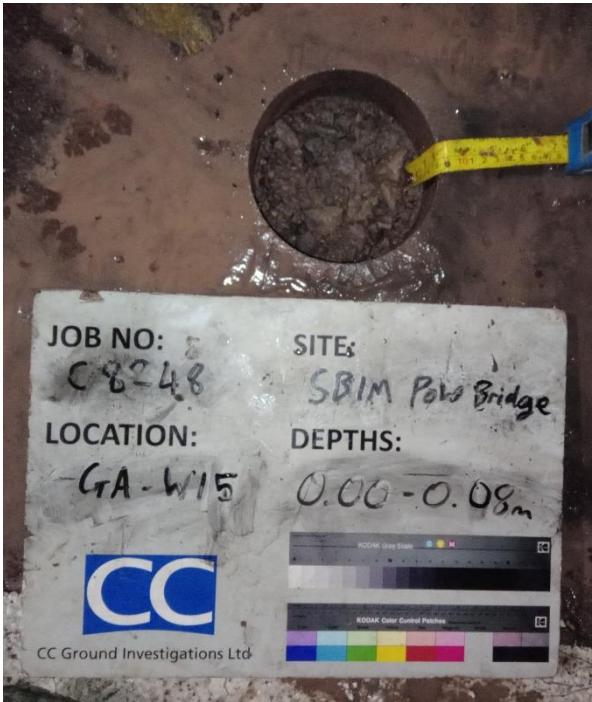
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|---|----------------|-----------------|
| <br>CC Ground Investigations Ltd | Contract Name: | SBIM PoW Bridge |
|   | Contract ID:   | C8248           |
|   | Client:        | Amey            |
|   | Hole ID:       | GA-W15          |



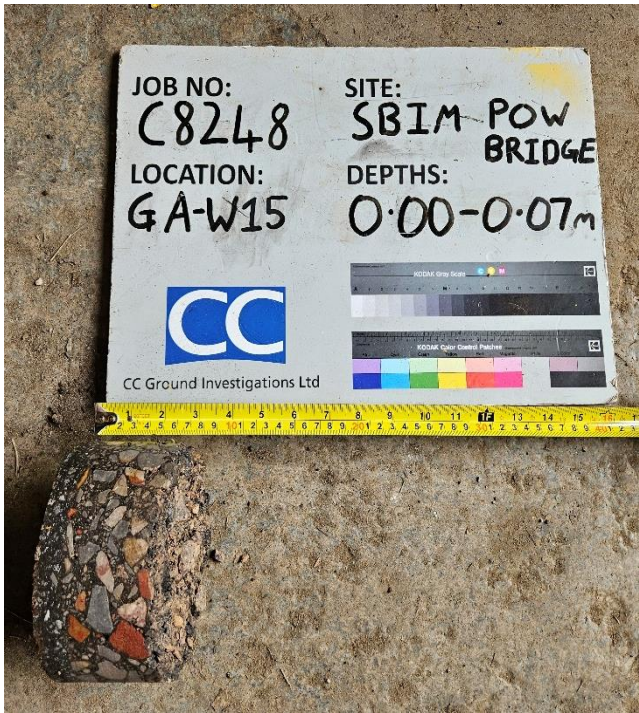
Road Core Log



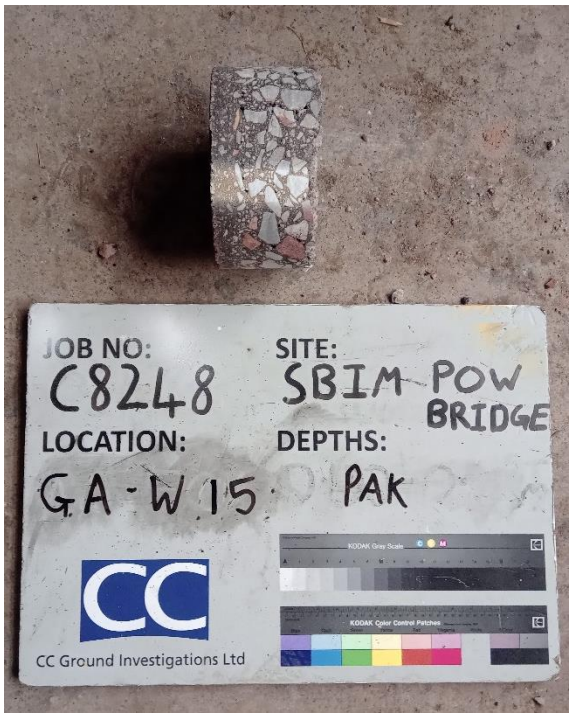
Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

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



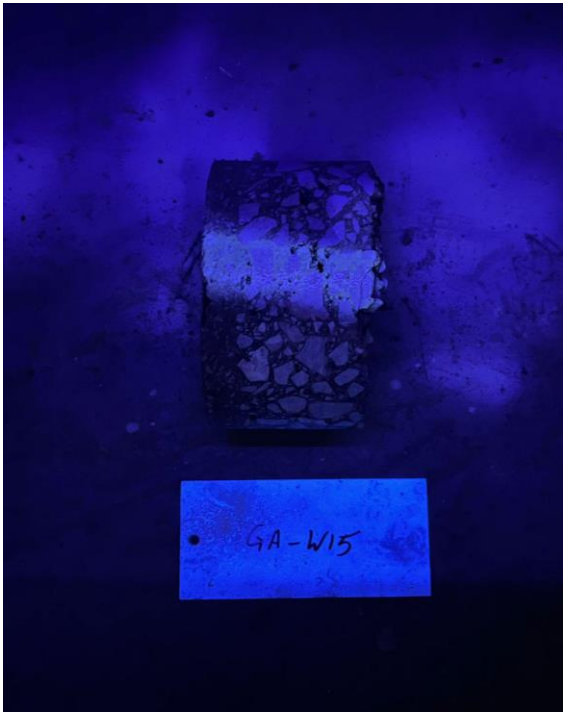
Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

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



Road Core Log


|               |                           |                   |             |                      |                |
|---------------|---------------------------|-------------------|-------------|----------------------|----------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway       |
| Coring Date   | 14/03/2024                |                   |             | Traffic Direction    | Westbound      |
| Coring Time   | 00:55                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment |
| Core Ref.     | GA-W16                    | Network Reference | N/A         | Carriageway location | Lane 3         |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy          |

Road condition: Good

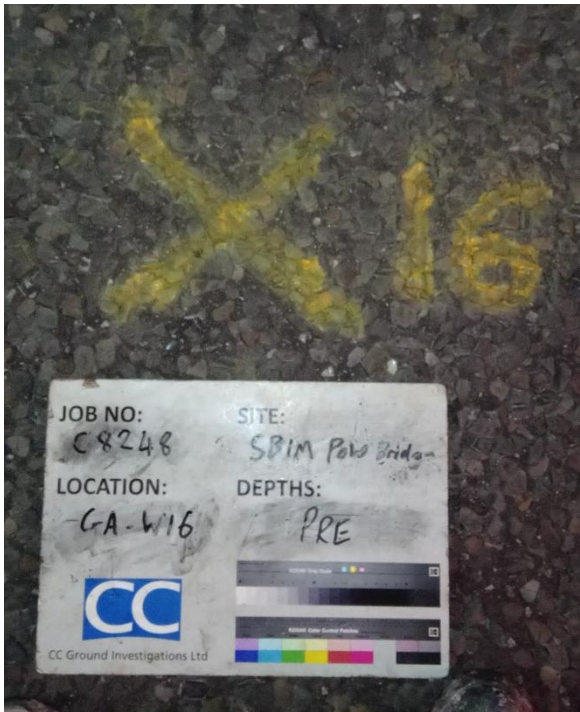
| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments   |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|--|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |  |
| 1         | 0        | 40        | 40             | WC / HRA                             | N                                 | <20           | CR   | Y         | 3% voids   |
| 2         | 40       | 260       | 220            | RB / HDM                             | N                                 | <30           | CR   | Y         | 30% voids<br>Drilling induced debonding<br>Rebar at 170mm<br>(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

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

Road Core Log



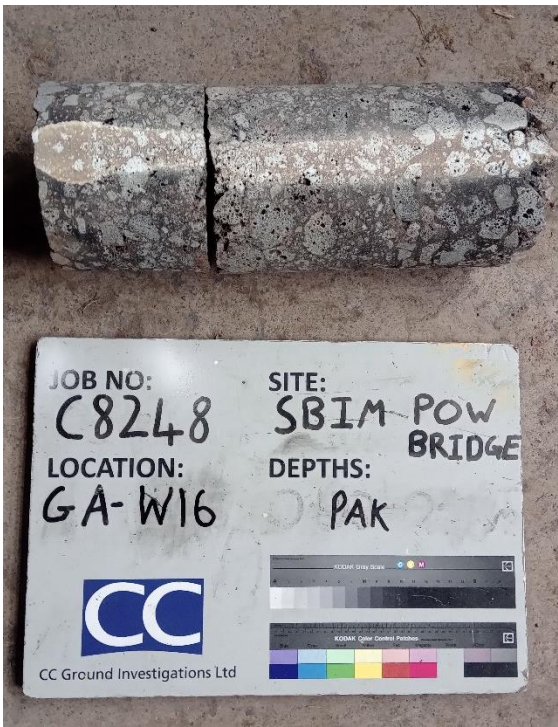
Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

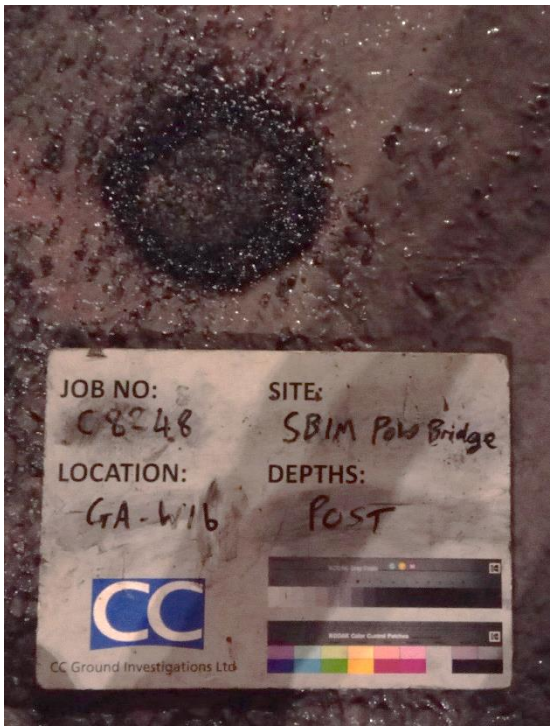
|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-W16          |



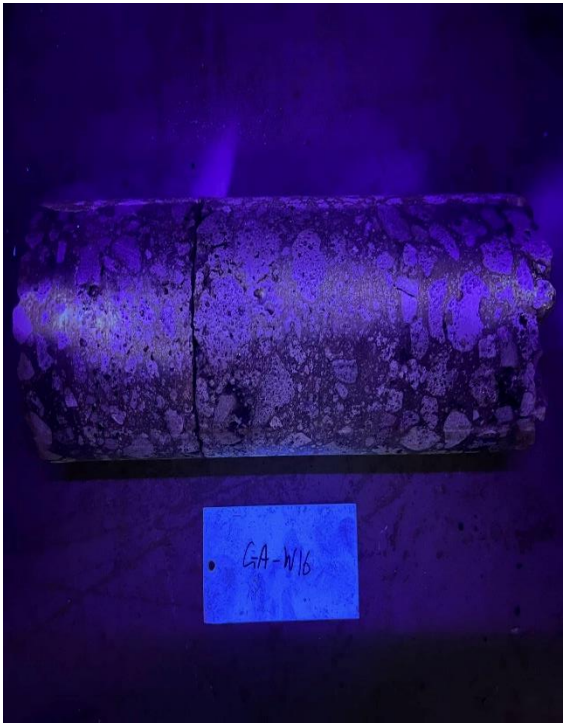
Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-W16          |

Road Core Log


|               |                           |                   |             |                      |                     |
|---------------|---------------------------|-------------------|-------------|----------------------|---------------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway            |
| Coring Date   | 14/03/2024                |                   |             | Traffic Direction    | Westbound           |
| Coring Time   | 02:25                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment      |
| Core Ref.     | GA-W17                    | Network Reference | N/A         | Carriageway location | Central reservation |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy               |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|----------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |          |
| 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       |          |
|           |          |           |                |                                      |                                   |               |      |           |          |

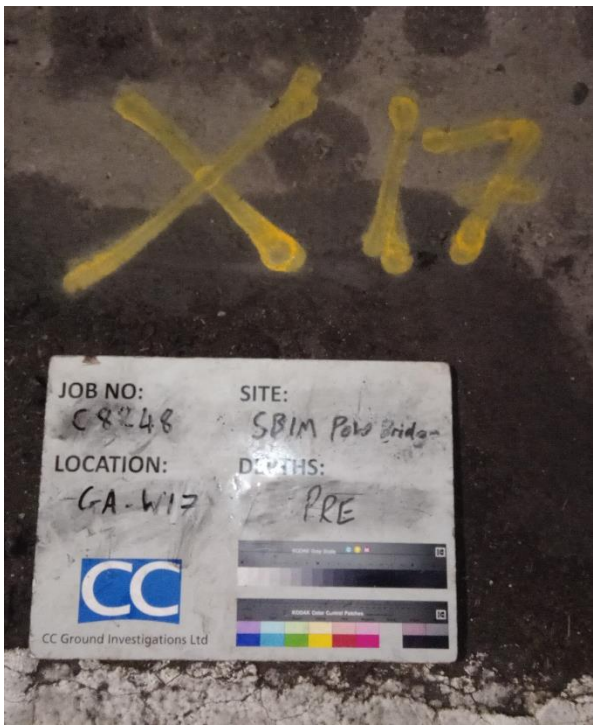
**Key :**  
**Road Layers:** WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base.  
**Material:** HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.  
**Aggregate:** CR = Crushed Rock. P = Pebbles.

**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

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



Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-W17          |

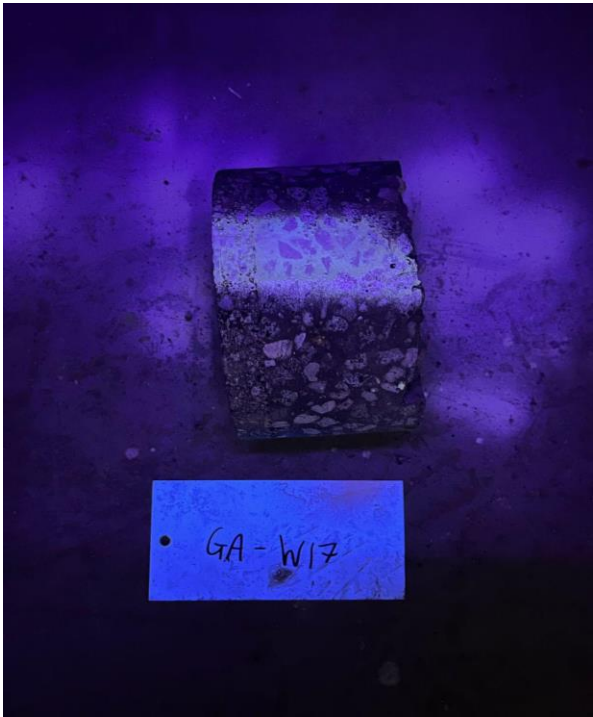
Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | GA-W17          |



Road Core Log

|               |                           |                   |             |                      |                |
|---------------|---------------------------|-------------------|-------------|----------------------|----------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway       |
| Coring Date   | 14/03/2024                |                   |             | Traffic Direction    | Westbound      |
| Coring Time   | 01:45                     | Date Logged       | 19/03/2024  | Carriageway          | Gwent Abutment |
| Core Ref.     | GA-W18                    | Network Reference | N/A         | Carriageway location | Lane 3         |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy          |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments                                     |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|--|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |  |
| 1         | 0        | 45        | 45             | WC / HRA                             | N                                 | <20           | CR   | Y         |  |
| 2         | 45       | 125       | 80             | RB / HDM                             | N                                 | <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.

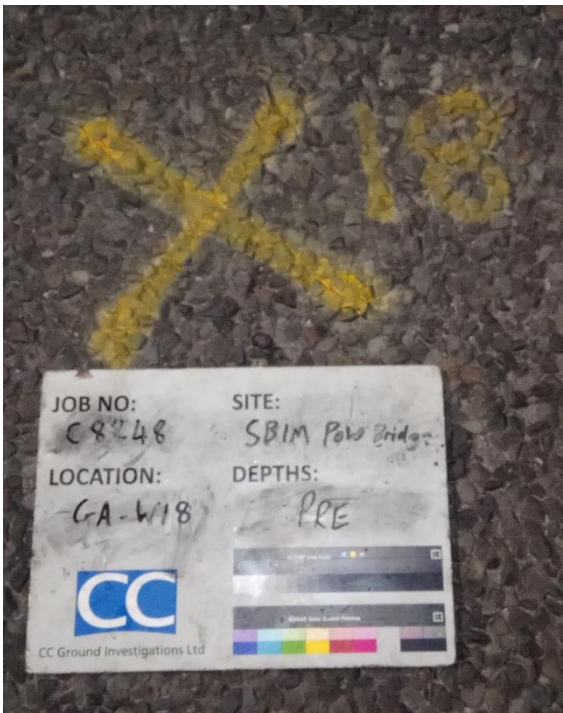
**Remarks:**  
Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229.  
Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N)  
TRL-DCP test to 1.0m depth undertaken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



CC Ground Investigations Ltd

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

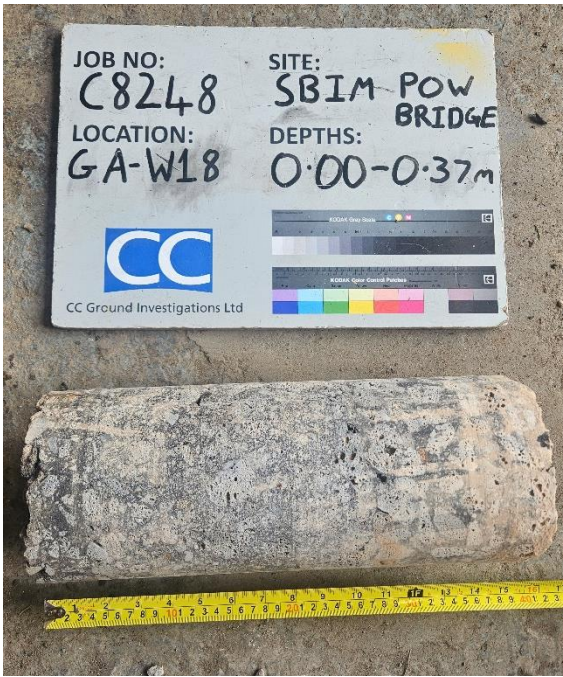
Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray

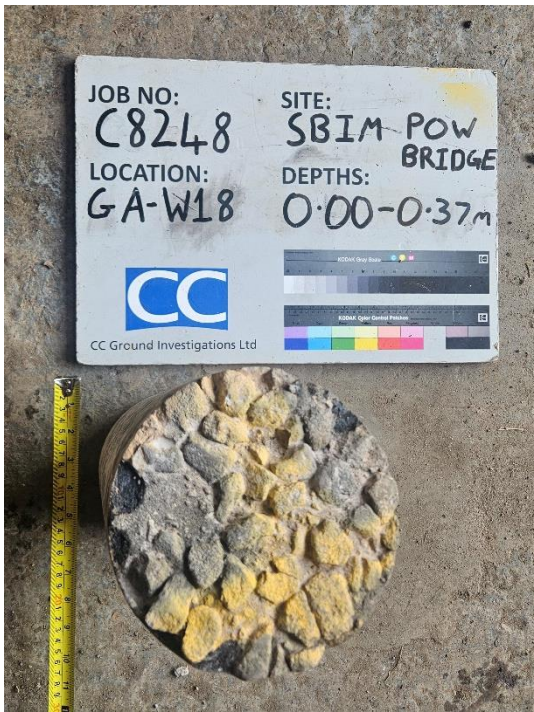


CC Ground Investigations Ltd

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



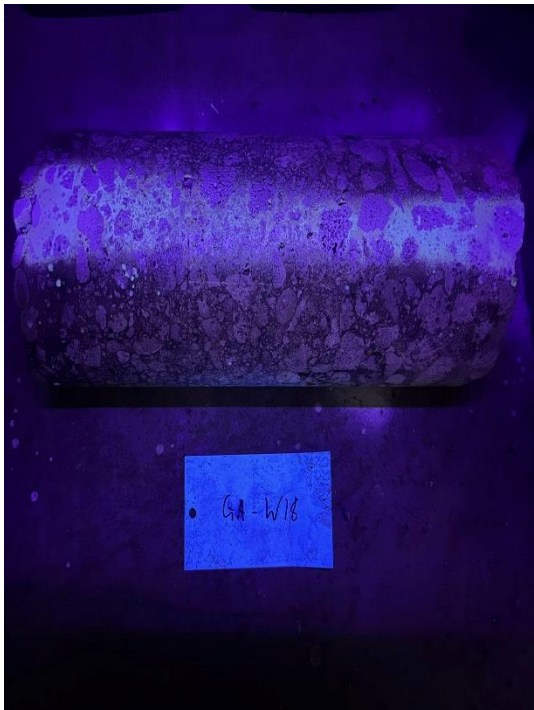
Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

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

Road Core Log

|               |                           |                   |             |                      |               |
|---------------|---------------------------|-------------------|-------------|----------------------|---------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway      |
| Coring Date   | 13/03/2024                |                   |             | Traffic Direction    | Eastbound     |
| Coring Time   | 00:50                     | Date Logged       | 19/03/2024  | Carriageway          | Avon Abutment |
| Core Ref.     | AA-E01                    | Network Reference | N/A         | Carriageway location | Lane 3        |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy         |


|  |
|--|
|  |
|--|

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments                     |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|------------------------------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |                              |
| 1         | 0        | 50        | 50             | WC / HRA                             | N                                 | <20           | CR   | Y         |                              |
| 2         | 50       | 250       | 200            | RB / HDM                             | N                                 | <30           | CR   | Y         | Drilling disturbed debonding |
| 3         | 250      | 370       | 120            | RB / HDM                             | N                                 | <37           | CR   | Y         |                              |
| 4         | 370      | N/A       | N/A            | SB                                   | N/A                               | N/A           | CR   | N/A       |                              |

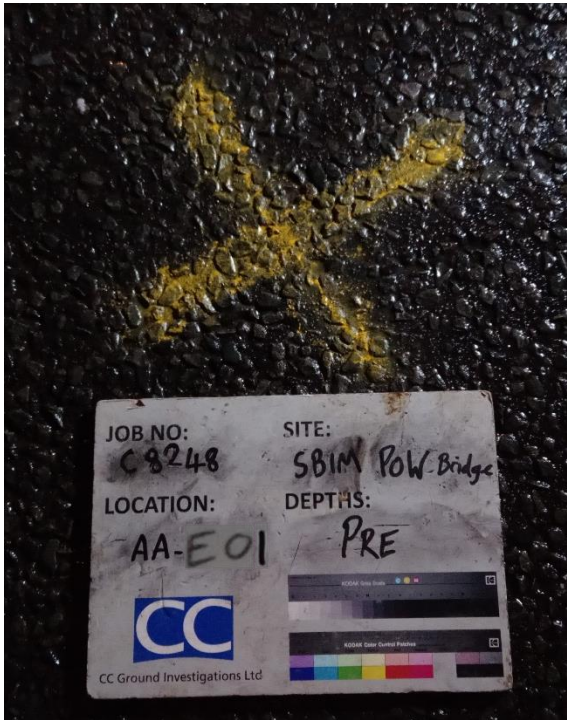
**Key :**  
**Road Layers:** WC = Wearing course. BC = Binder Course (max 20mm aggregate). RB = Road base. SB = Sub- base.  
**Material:** HRA = Hot rolled asphalt. DBM = Dense bituminous macadam. HDM = Heavy Duty Macadam. CONC = Concrete.  
**Aggregate:** CR = Crushed Rock. P = Pebbles.

**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

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



Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | AA-E01          |



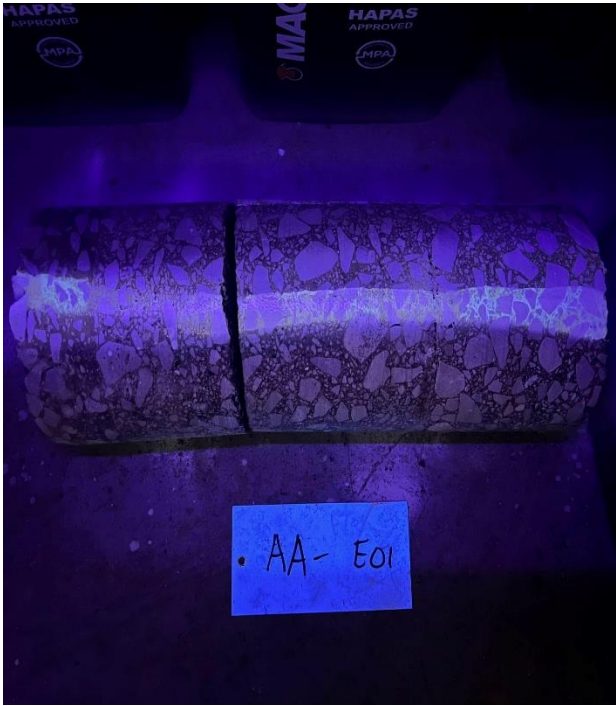
Road Core Log



Top of Core



Reinstatement



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      |
| Coring Date   | 13/03/2024                |                   |             | Traffic Direction    | Eastbound     |
| Coring Time   | 00:20                     | Date Logged       | 19/03/2024  | Carriageway          | Avon Abutment |
| Core Ref.     | AA-E03                    | Network Reference | N/A         | Carriageway location | Lane 3        |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy         |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments                                     |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|--|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |  |
| 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.

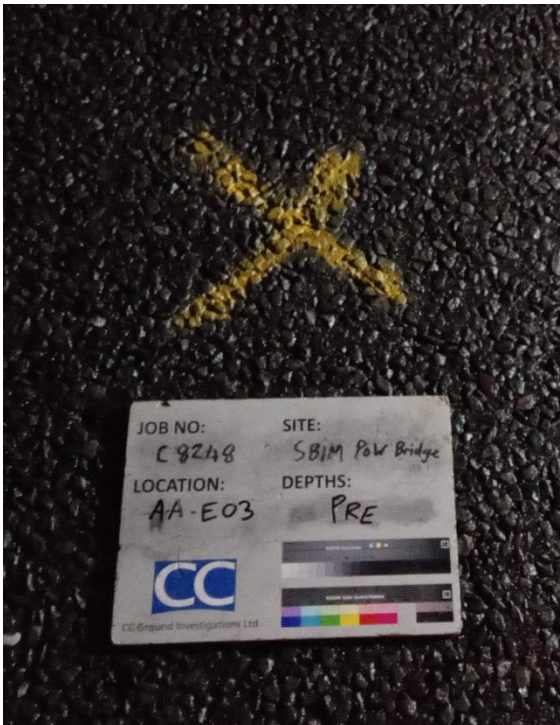
Remarks:  
Core retained. Core undertaken in accordance with BS EN 12697-27 [Ref 4.N] and logged in accordance with: CS 229.  
Reinstatement with rapid set concrete to 0.05m bgl and HAPAS cold-lay and spray sealant in accordance with Series 900 MCHW (Ref 8N)  
TRL-DCP test to 1.0m depth undertaken below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



CC Ground Investigations Ltd

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

Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray

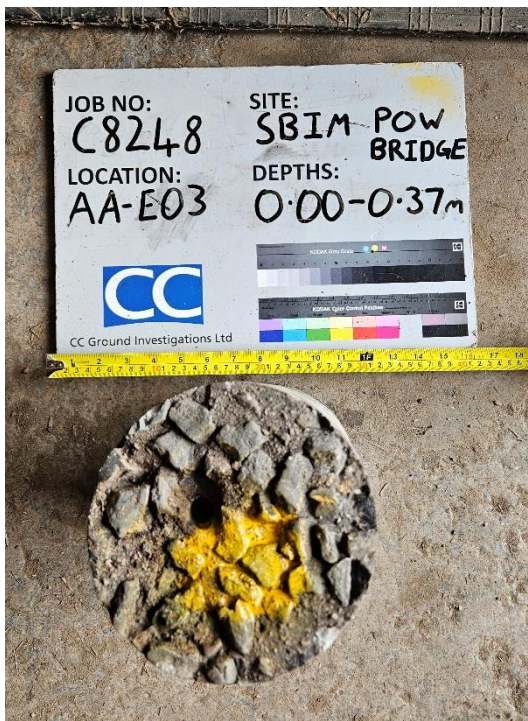


CC Ground Investigations Ltd

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



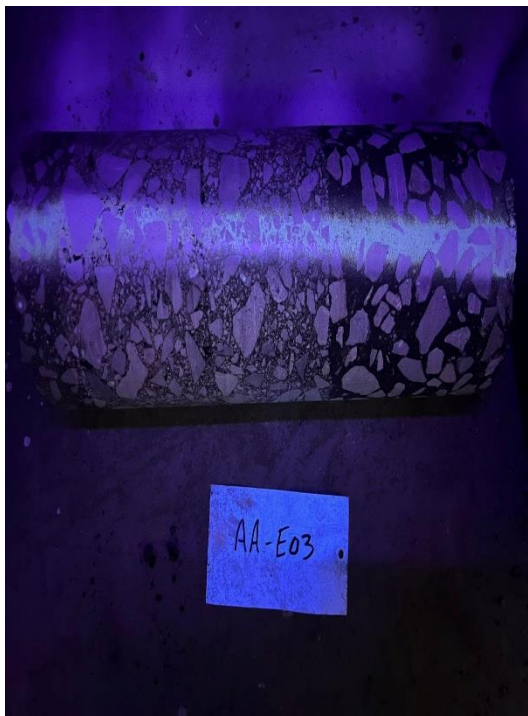
Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

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

Road Core Log


|               |                           |                   |             |                      |                     |
|---------------|---------------------------|-------------------|-------------|----------------------|---------------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway            |
| Coring Date   | 15/03/2024                |                   |             | Traffic Direction    | Westbound           |
| Coring Time   | 01:20                     | Date Logged       | 19/03/2024  | Carriageway          | Avon Abutment       |
| Core Ref.     | AA-W05                    | Network Reference | N/A         | Carriageway location | Central reservation |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy               |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments   |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|--|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |  |
| 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 |
|           |          |           |                |                                      |                                   |               |      |           |  |

**Key :**  
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**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)  
Unable to undertake TRL-DCP test at base of core as unable to retrieve base of core.

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



Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

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



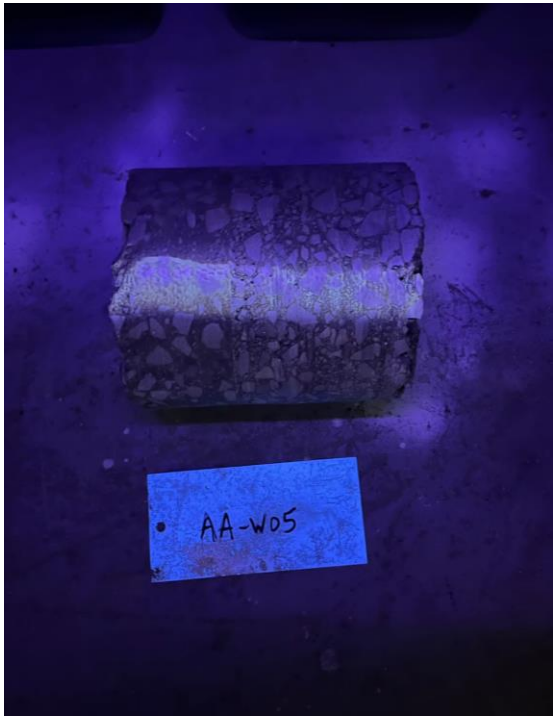
Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

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



Road Core Log

|               |                           |                   |             |                      |               |
|---------------|---------------------------|-------------------|-------------|----------------------|---------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway      |
| Coring Date   | 15/03/2024                |                   |             | Traffic Direction    | Westbound     |
| Coring Time   | 00:00                     | Date Logged       | 19/03/2024  | Carriageway          | Avon Abutment |
| Core Ref.     | AA-W06                    | Network Reference | N/A         | Carriageway location | Lane 3        |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy         |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments                                |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|---|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |   |
| 1         | 0        | 50        | 50             | WC / HRA                             | N                                 | <10           | CR   | Y         |   |
| 2         | 50       | 270       | 220            | RB / HDM                             | N                                 | <20           | CR   | Y         | 25% voids<br>Drilling induced debonding |
| 3         | 270      | 360       | 90             | RB / DBM                             | N                                 | <15           | CR   | Y         |   |
| 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



CC Ground Investigations Ltd

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

Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

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



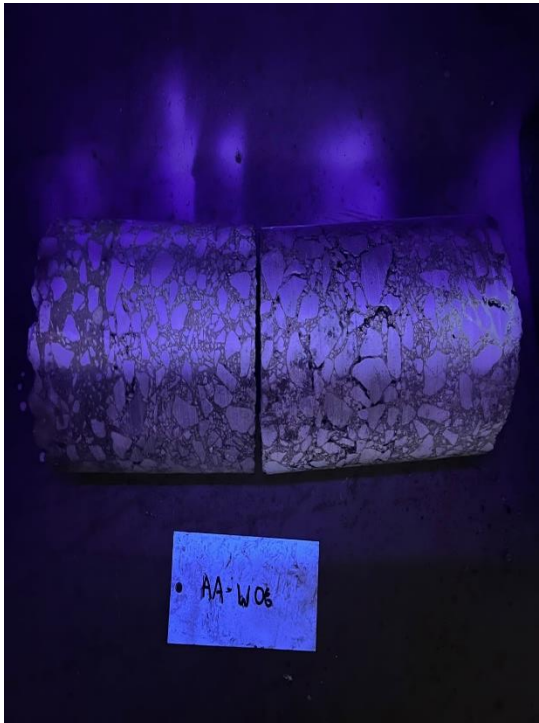
Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

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

Road Core Log

|               |                           |                   |             |                      |                     |
|---------------|---------------------------|-------------------|-------------|----------------------|---------------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway            |
| Coring Date   | 15/03/2024                |                   |             | Traffic Direction    | Westbound           |
| Coring Time   | 01:55                     | Date Logged       | 19/03/2024  | Carriageway          | Avon Abutment       |
| Core Ref.     | AA-W07                    | Network Reference | N/A         | Carriageway location | Central reservation |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy               |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments   |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|--|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |  |
| 1         | 0        | 55        | 55             | WC / HRA                             | N                                 | <20           | CR   | Y         |  |
| 2         | 55       | 255       | 200            | RB / HDM                             | N                                 | <30           | CR   | Y         | 5% voids<br>2x large voids at base of layer (20-30mm diameter)<br>Drilling induced debonding |
| 3         | 255      | 375       | 120            | RB / DBM                             | N                                 | <32           | CR   | Y         |  |
| 4         | 375      | 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

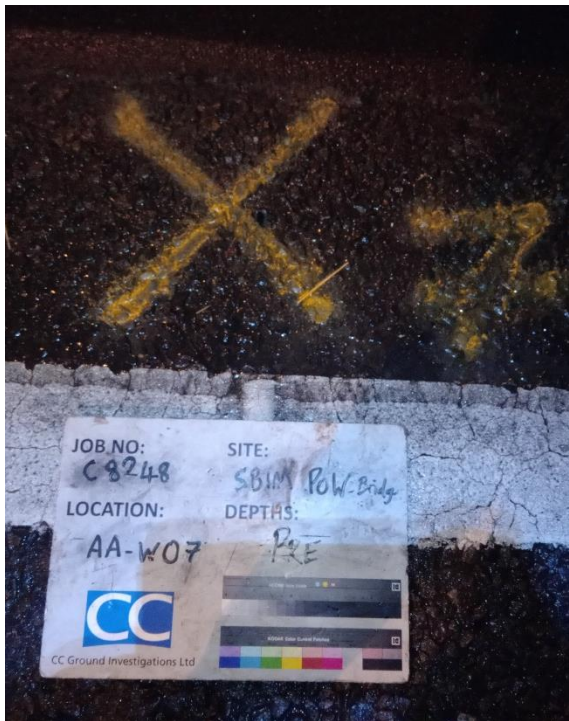


CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | AA-W07          |



Road Core Log



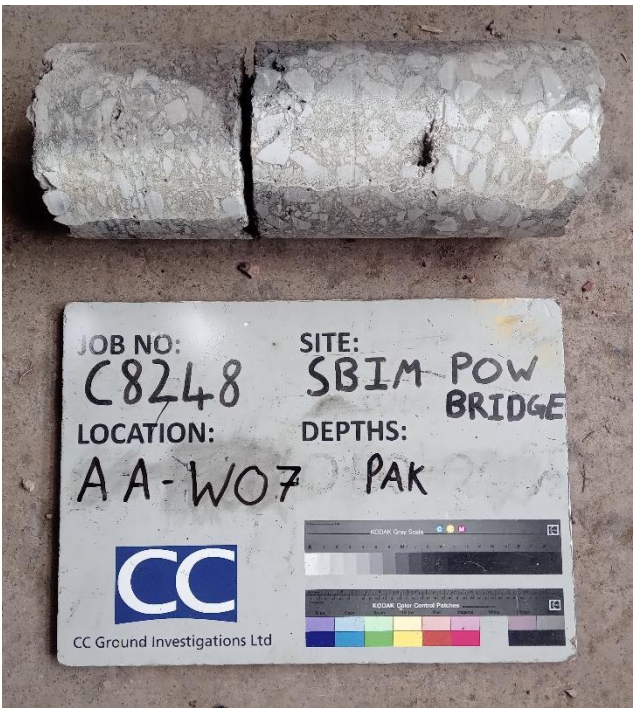
Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | AA-W07          |



Road Core Log



Top of Core

Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | AA-W07          |



Road Core Log


|               |                           |                   |             |                      |               |
|---------------|---------------------------|-------------------|-------------|----------------------|---------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway      |
| Coring Date   | 14/03/2024                |                   |             | Traffic Direction    | Westbound     |
| Coring Time   | 23:20                     | Date Logged       | 19/03/2024  | Carriageway          | Avon Abutment |
| Core Ref.     | AA-W08                    | Network Reference | N/A         | Carriageway location | Lane 3        |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy         |

Road condition: Good

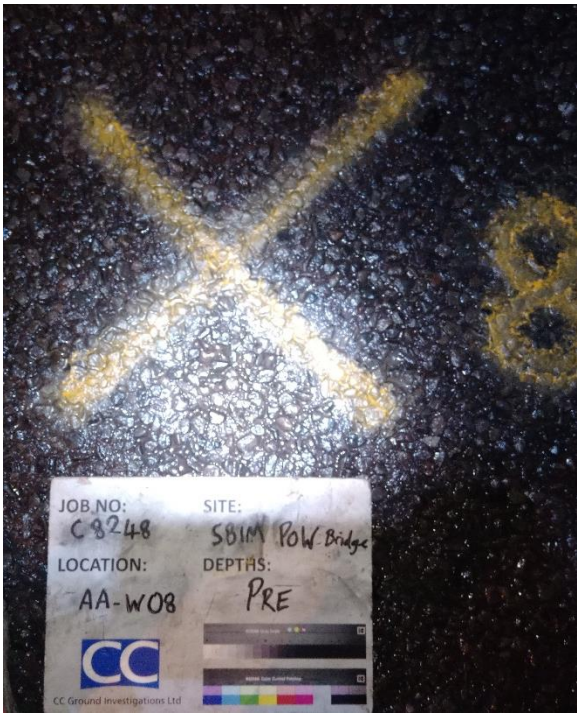
| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments                     |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|------------------------------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |                              |
| 1         | 0        | 40        | 40             | WC / HRA                             | N                                 | <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 :**  
**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

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

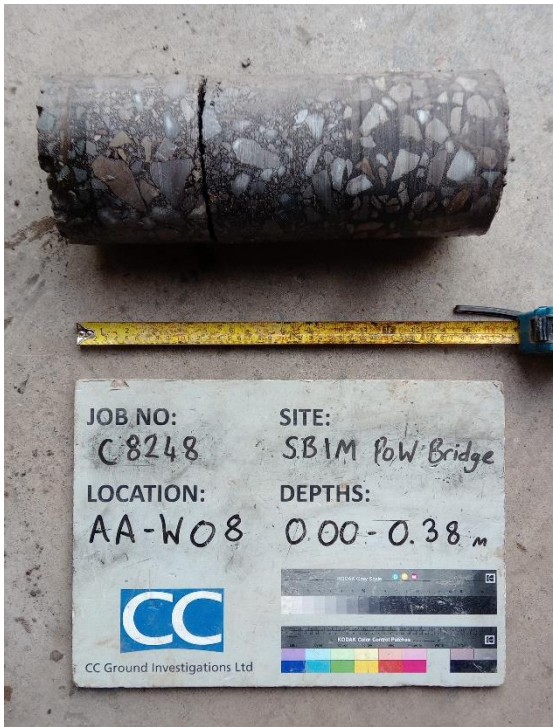
Road Core Log



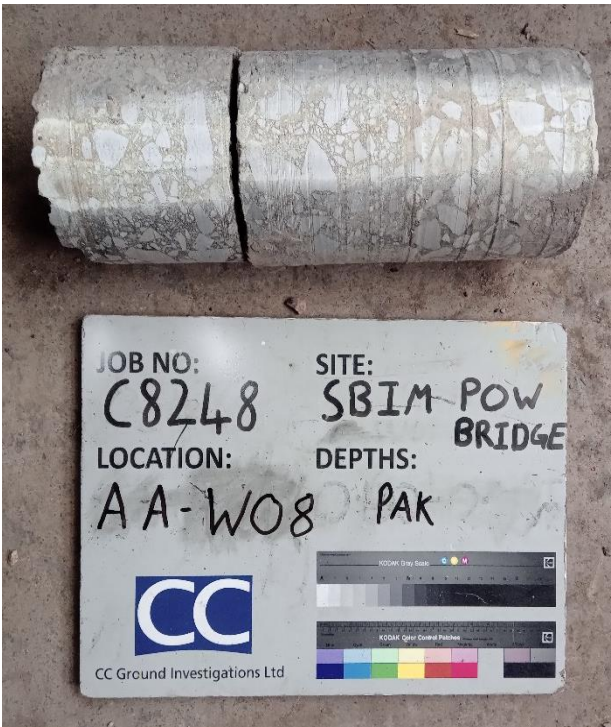
Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray

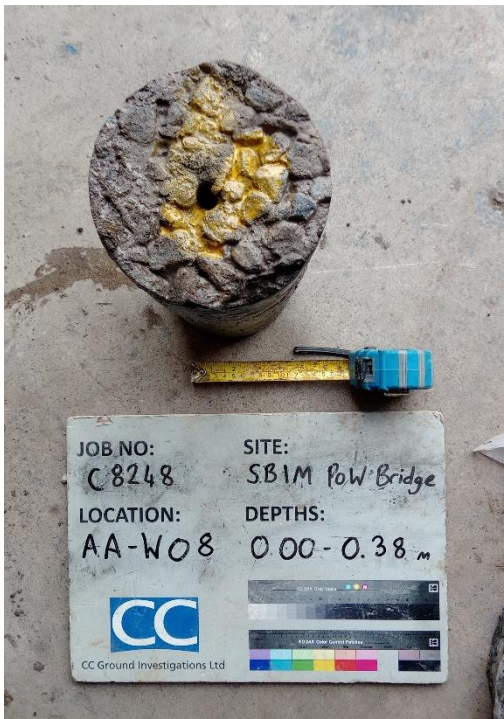


CC Ground Investigations Ltd

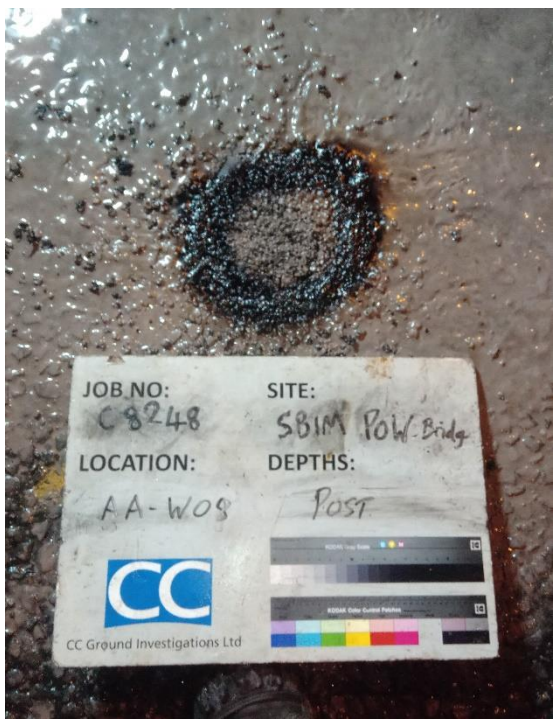
|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | AA-W08          |



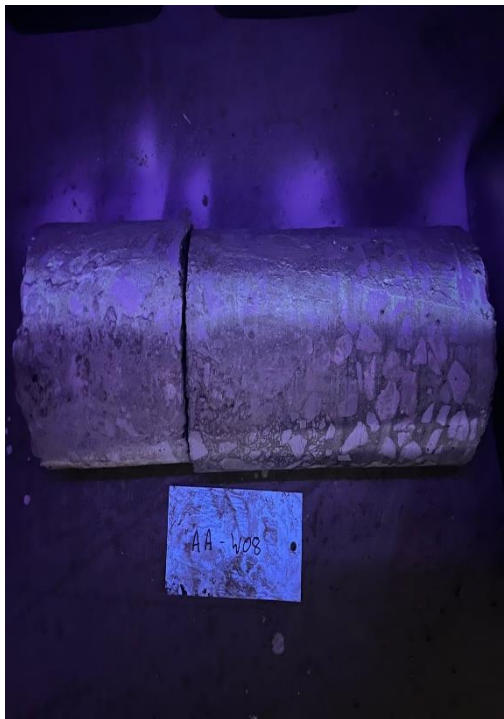
Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | AA-W08          |

Road Core Log

|               |                           |                   |             |                      |                     |
|---------------|---------------------------|-------------------|-------------|----------------------|---------------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway            |
| Coring Date   | 15/03/2024                |                   |             | Traffic Direction    | Westbound           |
| Coring Time   | 02:30                     | Date Logged       | 19/03/2024  | Carriageway          | Avon Abutment       |
| Core Ref.     | AA-W09                    | Network Reference | N/A         | Carriageway location | Central reservation |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy               |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments  |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|-----------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |           |
| 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



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | AA-W09          |



Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | AA-W09          |

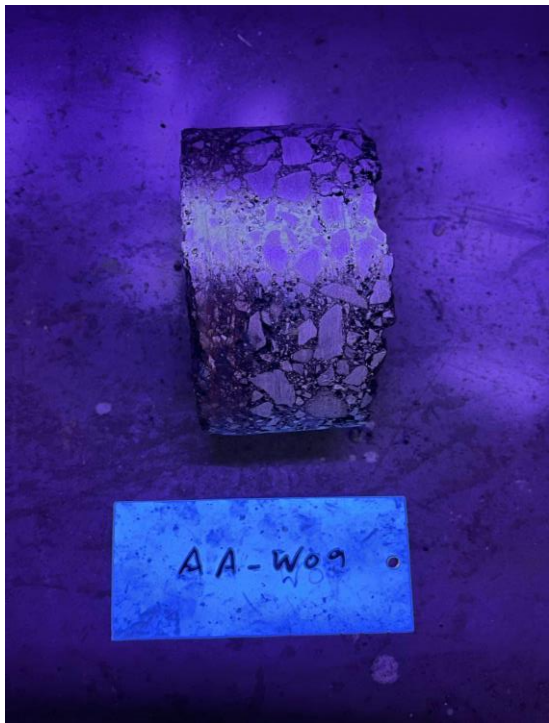


Road Core Log



Top of Core

Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | AA-W09          |



Road Core Log


|               |                           |                   |             |                      |               |
|---------------|---------------------------|-------------------|-------------|----------------------|---------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway      |
| Coring Date   | 14/03/2024                |                   |             | Traffic Direction    | Westbound     |
| Coring Time   | 22:50                     | Date Logged       | 19/03/2024  | Carriageway          | Avon Abutment |
| Core Ref.     | AA-W10                    | Network Reference | N/A         | Carriageway location | Lane 3        |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy         |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|----------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |          |
| 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

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

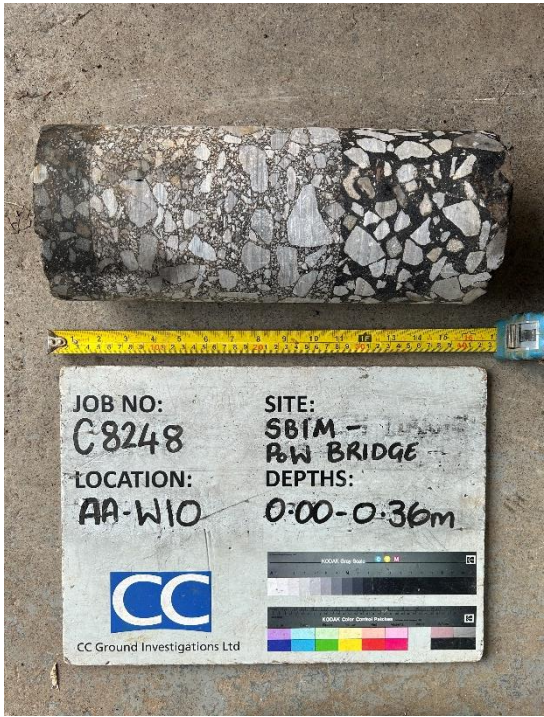
Road Core Log



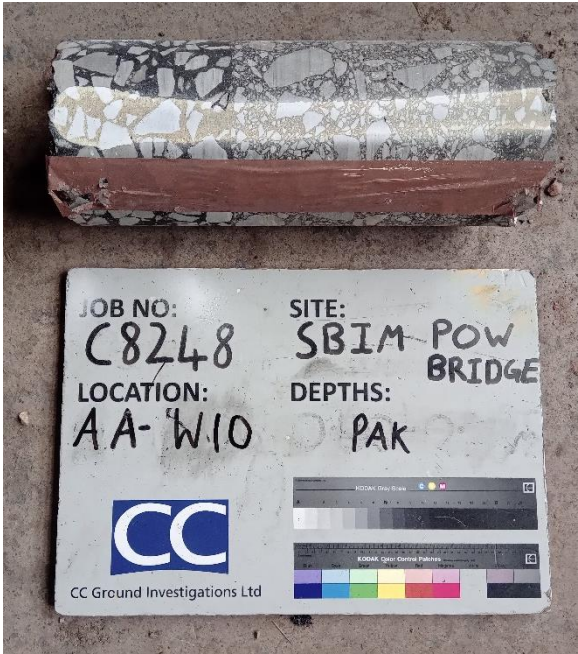
Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray

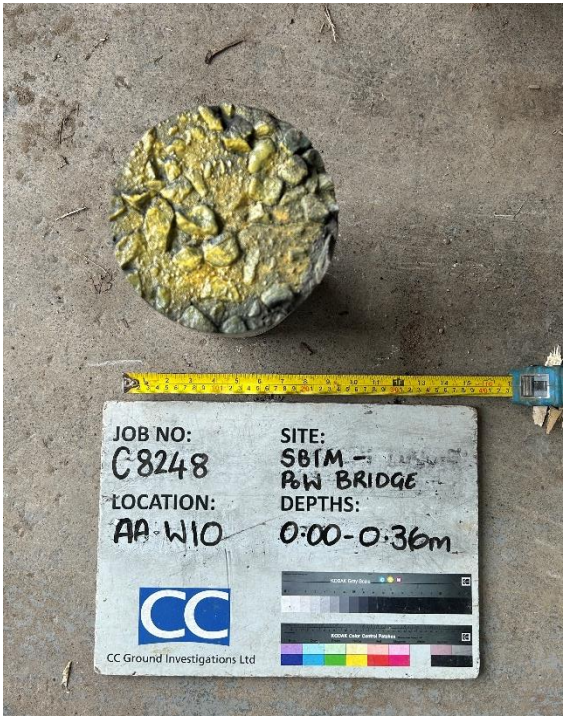


CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | AA-W10          |



Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | AA-W10          |

Road Core Log


|               |                           |                   |             |                      |                   |
|---------------|---------------------------|-------------------|-------------|----------------------|-------------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway          |
| Coring Date   | 13/03/2024                |                   |             | Traffic Direction    | Eastbound         |
| Coring Time   | 02:40                     | Date Logged       | 19/03/2024  | Carriageway          | Cable Stay Bridge |
| Core Ref.     | CS-E02                    | Network Reference | N/A         | Carriageway location | Lane 1            |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy             |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments          |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|-------------------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |                   |
| 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 :**  
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**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

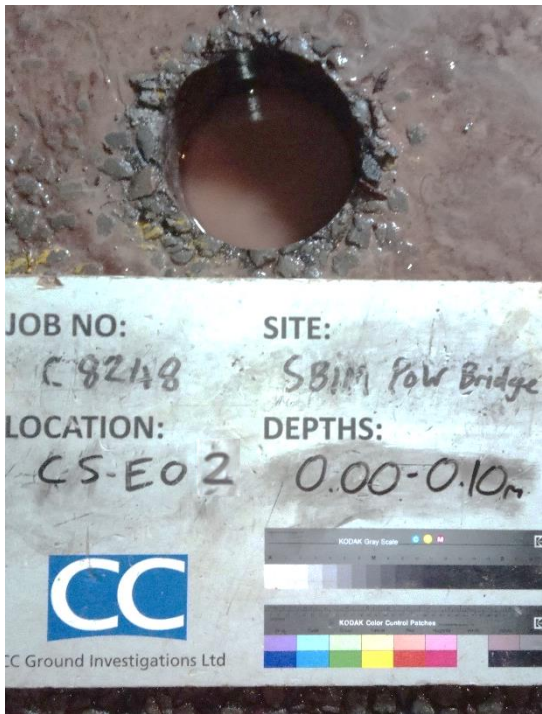
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|---|----------------|-----------------|
| <br>CC Ground Investigations Ltd | Contract Name: | SBIM PoW Bridge |
|   | Contract ID:   | C8248           |
|   | Client:        | Amey            |
|   | Hole ID:       | CS-E02          |



Road Core Log



Road surface before core



Downhole Photo



Core Photograph



Core with PAK spray



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | CS-E02          |



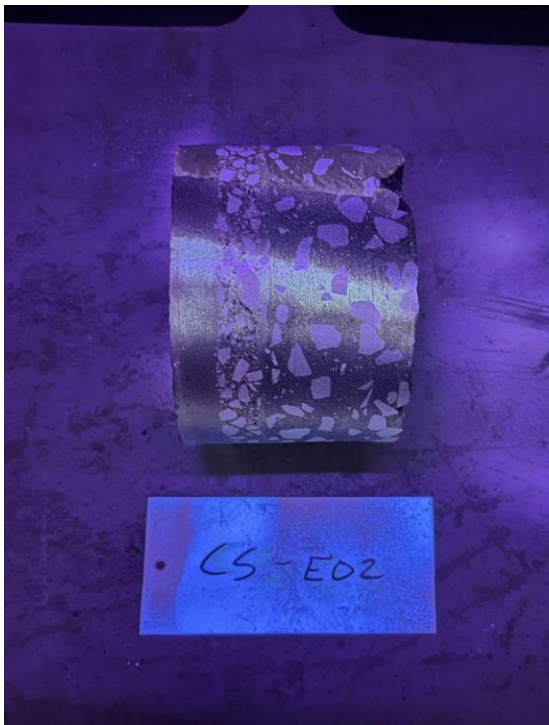
Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

|                |                 |
|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | C5-E02          |



Road Core Log

|               |                           |                   |             |                      |                   |
|---------------|---------------------------|-------------------|-------------|----------------------|-------------------|
| Road Name     | M4 Prince of Wales Bridge |                   |             | Road type            | Motorway          |
| Coring Date   | 13/03/2024                |                   |             | Traffic Direction    | Eastbound         |
| Coring Time   | 01:35                     | Date Logged       | 19/03/2024  | Carriageway          | Cable Stay Bridge |
| Core Ref.     | CS-E05                    | Network Reference | N/A         | Carriageway location | Lane 1            |
| Core diameter | 150mm                     | Coring type       | Water flush | Weather              | Rainy             |

Road condition: Good

| Layer No. | Layers   |           |                |                                      | Debonded at Lower Interface (Y/N) | Aggregate     |      | PAK (Y/N) | Comments          |
|-----------|----------|-----------|----------------|--------------------------------------|-----------------------------------|---------------|------|-----------|-------------------|
|           | Top (mm) | Base (mm) | Thickness (mm) | Material Description (See Key below) |                                   | Max size (mm) | Type |           |                   |
| 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) |
|           |          |           |                |                                      |                                   |               |      |           |                   |

**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:       | CS-E05          |

Road Core Log



Road surface before core

Downhole Photo



Core Photograph

Core with PAK spray



CC Ground Investigations Ltd

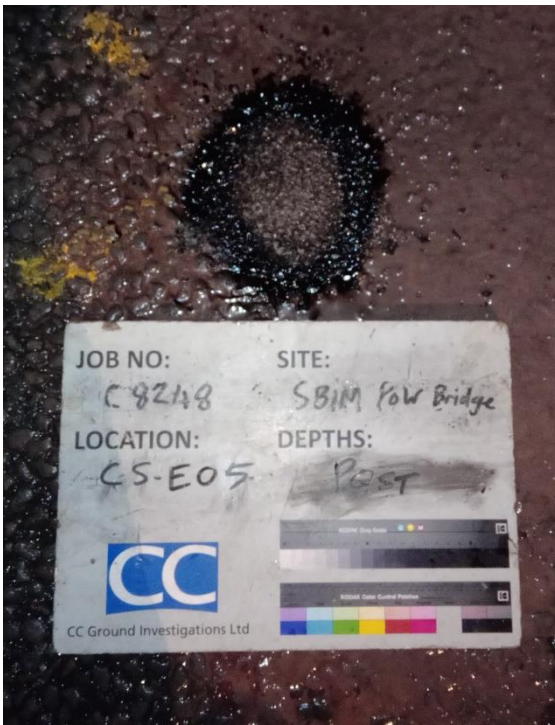
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|----------------|-----------------|
| Contract Name: | SBIM PoW Bridge |
| Contract ID:   | C8248           |
| Client:        | Amey            |
| Hole ID:       | CS-E05          |



Road Core Log



Top of Core



Reinstatement



Core with PAK Spray under UV light



CC Ground Investigations Ltd

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