APPENDIX J

CONSTRUCTION DETAILS
40 CFR 146.86 AND 146.82(A)(12)

West Bay Storage Facility

1 FACILITY INFORMATION

Facility Name: West Bay Storage Facility

Facility Contact: [redacted]
501 Westlake Park Blvd., Houston, Texas 77079
[redacted]

Well Location: Galveston County, TX

[redacted]

2 INTRODUCTION

This well construction plan describes the actions that BP Carbon Solutions LLC (BP) will take in accordance with 40 Code of Federal Regulations (CFR) 146.86 and 146.82(a)(12) [redacted] The injection wells will be used to support the storage of CO_2 in the West Bay Storage Facility (Site). If changes to the construction plan become necessary due to any geologic or other mitigating factors encountered in the Area of Review (AoR), these changes will be provided in an interim submission and communicated to the Underground Injection Control (UIC) Program Director prior to construction.

3 INJECTION WELL DETAILS

Below are the construction details for the [redacted] proposed injection wells. The depth intervals will be based on site-specific geology with the general diameters, casing, tubing, and packer specifications shown in the below tables. Note that wellbore construction elements are subject to change based on vendor and material availability and operational constraints. As

explained above, should construction details change, BP will provide the UIC Program Director with a supplemented final Construction Plan prior to well installation.

For details on the characteristics of the CO_2 stream, maximum proposed injection pressure, maximum proposed annular pressure, proposed injection rate, and volume and/or mass of the CO_2 stream, refer to **Section 7.2.2 (**Carbon Dioxide Stream in the AoR Model) of the **Application Narrative**. For details on the formation fluid, see **Section 2.8** (Geochemistry) of the **Application Narrative**. For details on the lithology of the injection and confining zones, refer to **Sections 2.1.4** (Injection Zone) and **2.1.5** (Confining Zone) of the **Application Narrative**.

3.1 [redacted]

[redacted]

In accordance with 40 CFR 146.86(b)(1), all casing and cement used in the construction of the Class VI well will have sufficient structural strength and be designed to maintain that strength for the life of the Site. Additionally, all materials used for construction of the Class VI wells will be compatible with fluids with which they are expected to come into contact and will meet the relevant American Petroleum Institute (API) standards, American Society for Testing and Materials (ASTM) International standards, or other comparable standards acceptable to the UIC Program Director.

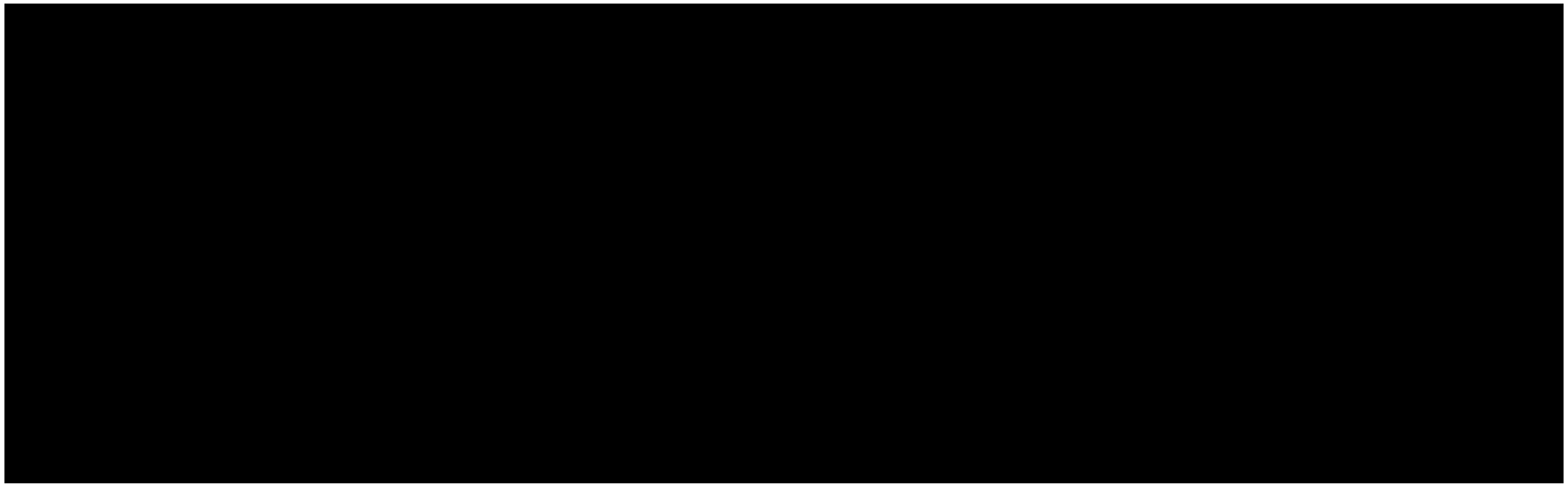
Surface Casing: As required by 40 CFR 146.86(b)(2), the surface casing will extend through the base of the lowermost underground source of drinking water (USDW) and be cemented to the surface through the use of single or multiple strings of casing and cement. [redacted]

Intermediate Casing: [redacted] Casing that extends into the injection zone will be completed in accordance with 40 CFR 146.86(b)(2).

Long-String Casing: [redacted]

[redacted]

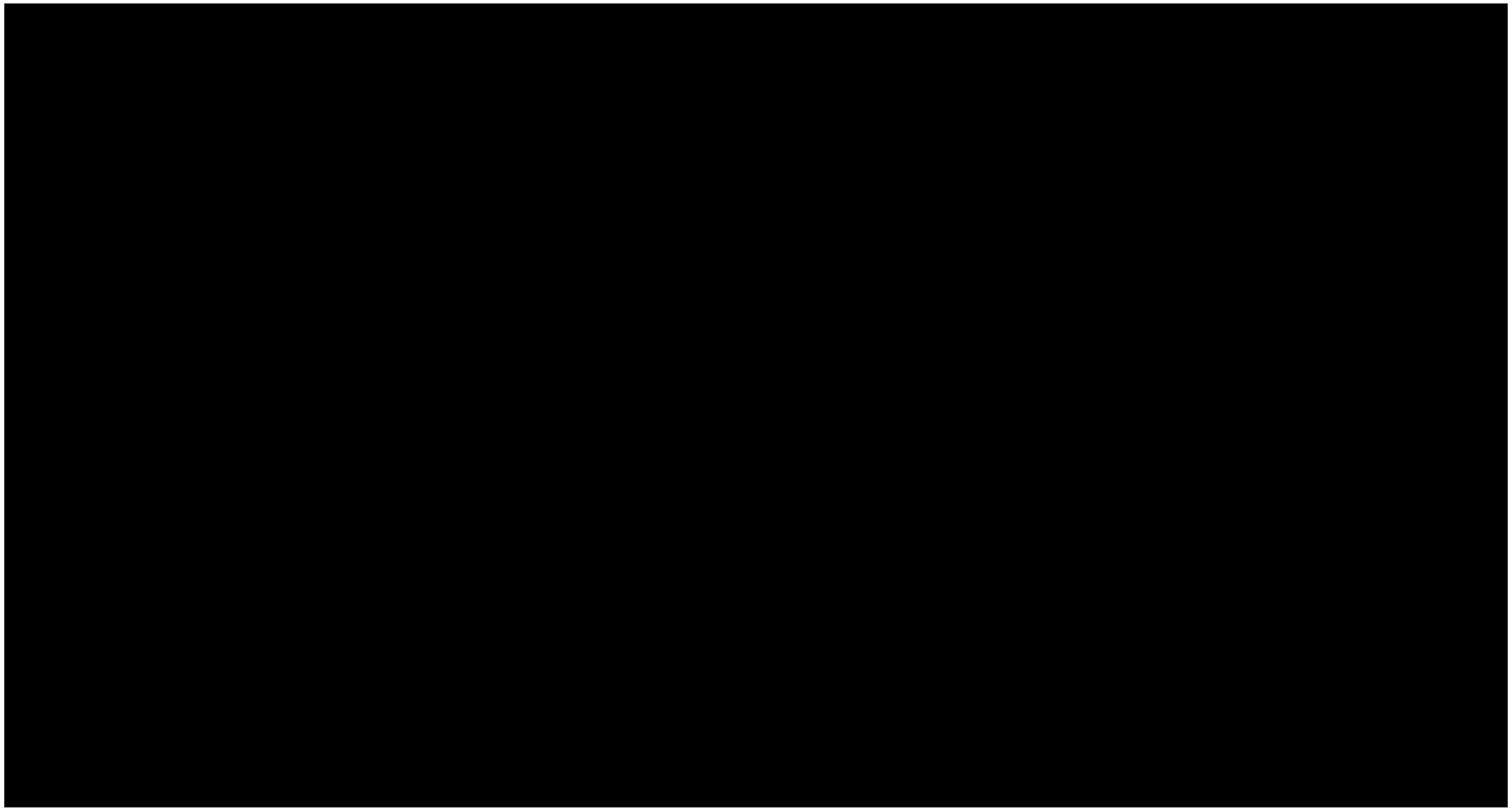
Injection Tubing: Consistent with 40 CFR 146.86(c)(1), the tubing and packer materials will be compatible with all fluids with which they are expected to come into contact and will meet the relevant API standards, ASTM International standards, or other comparable standards acceptable to the UIC Director. [redacted]



[redacted] Each well will be drilled based on site-specific conditions.

[redacted]

3.2 [redacted]



In accordance with 40 CFR 146.86(b)(1), all casing and cement used in the construction of the Class VI well will have sufficient structural strength and be designed to maintain that strength for the life of the Site. Additionally, all materials used for construction of the Class VI wells will be compatible with fluids with which they are expected to come into contact and will meet the relevant API standards, ASTM International standards, or other comparable standards acceptable to the UIC Program Director.

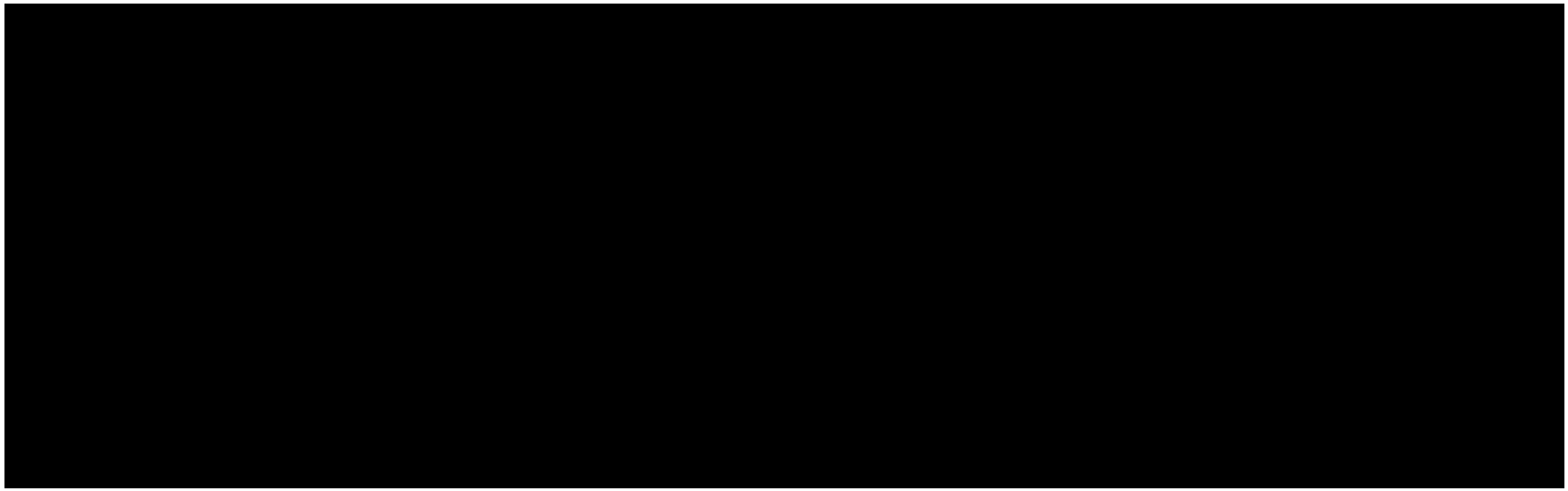
Surface Casing: As required by 40 CFR 146.86(b)(2), the surface casing will extend through the base of the USDW and be cemented to the surface through the use of single or multiple strings of casing and cement. [redacted]

Intermediate Casing: [redacted] Casing that extends into the injection zone will be completed in accordance with 40 CFR 146.86(b)(2).

Long-String Casing: [redacted]

[redacted]

Injection Tubing: Consistent with 40 CFR 146.86(c)(1), the tubing and packer materials will be compatible with all fluids with which they are expected to come into contact and will meet the relevant API standards, ASTM International standards, or other comparable standards acceptable to the UIC Director. [redacted]



[redacted] Each well will be drilled based on site-specific conditions.

[redacted]

3.3 [redacted]

[redacted]

In accordance with 40 CFR 146.86(b)(1), all casing and cement used in the construction of the Class VI well will have sufficient structural strength and be designed to maintain that strength for the life of the Site. Additionally, all materials used for construction of the Class VI wells will be compatible with fluids with which they are expected to come into contact and will meet the relevant API standards, ASTM International standards, or other comparable standards acceptable to the UIC Program Director.

Surface Casing: As required by 40 CFR 146.86(b)(2), the surface casing will extend through the base of USDW and be cemented to the surface through the use of single or multiple strings of casing and cement. [redacted]

Intermediate Casing: [redacted] Casing that extends into the injection zone will be completed in accordance with 40 CFR 146.86(b)(2).

Long-String Casing: [redacted]

[redacted]

Injection Tubing: Consistent with 40 CFR 146.86(c)(1), the tubing and packer materials will be compatible with all fluids with which they are expected to come into contact and will meet the relevant API standards, ASTM International standards, or other comparable standards acceptable to the UIC Director. [redacted]

[redacted] Each well will be drilled based on site-specific conditions.

[redacted]