TCEQ Cementing Certificate for PWS Groundwater Well Construction

| PWS No.: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | TCEQ Approval Letter Log No.: P-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| --- | --- |

Cementing Company Name

|  |
| --- |

Name and Title of Company Representative Telephone Number

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

Company Address

|  |
| --- |

**Cementing Information**

| AWWA A100-15 Appendix C Method Used for Cementing Well[[1]](#footnote-1) (circle method used) | C2 C3 C4 C5 |
| --- | --- |
| Casing Material and Specification (AWWA A100-15 Table 2 "Water well casing materials") | Check the appropriate pipe on following sheet |

Note: Please use columns 2-3 only if increasing or decreasing borehole and/or casing sizes are utilized

| Information | Size 1 | Size 2 | Size 3 |
| --- | --- | --- | --- |
| Borehole size (inch) |  |  |  |
| Actual Casing size (inch of outside diameter) |  |  |  |
| Ground Surface Elevation (GSE) as (msl or 0) |  |  |  |
| Top of casing elevation (msl or +GSE) |  |  |  |
| Bottom of casing elevation (msl or -GSE) |  |  |  |
| Number of centralizers used |  |  |  |
| Vol. - sacks of cement (with water & additives) |  |  |  |
| Vol. of hole (annular space) to be cemented[[2]](#footnote-2) |  |  |  |
| Number of sacks calculated to fill annular space |  |  |  |
| Number of sacks of 94 lb. cement used |  |  |  |
| Volume balance between sacks used & required |  |  |  |
| Gallons of water used per 94 lb. sack of cement and additives |  |  |  |
| Depth of pressure cementing |  |  |  |
| Date of pressure cementing |  |  |  |
|  |  |  |  |
| API Class of cement used |  |  |  |
| Additives used (bentonite, calcium chloride, etc) |  |  |  |
| % of additive added to cement - |  |  |  |
| % of additive added to cement - |  |  |  |
| % of additive added to cement - |  |  |  |

Signature of Representative Date

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

**American Water Works Association Standard**

**A100-15 Water Wells**

APPENDIX C

**Grouting and Sealing—Methods of Placement**

**SECTION C.2: Positive Displacement – Exterior Method**

**SECTION C.3: Interior Method – Without Plug**

**SECTION C.4: Positive Placement, Interior Method – Drillable Plug**

**SECTION C.5: Placement through Float Shoe Attached to Bottom of Casing**

*\* For details of these approved methods refer to AWWA A100-15 Appendix C for details*.

# Water-well Casing Materials Table 2 from AWWA A100-15

1. Manufacturing standards for single-ply carbon-steel well casing:

ANSI/AWWA C200

API Spec. 5L

ASTM A53 Grade B

ASTM A139 Grade B

1. Manufacturing standards for alternative-ply well-casing materials:

|  | Casing Material | Manufacturing Standard |
| --- | --- | --- |
|  | Carbon Steel | ASTM A139 Grade B |
|  | Copper-Bearing Steel | ASTM A139 Grade B with additional requirement that the steel contain a minimum of 0.20% copper |
|  | High-Strength Low-Alloy Steel | ASTM A606 Type 4 |
|  | Stainless Steel | ASTM A778 |
|  | Plastic | ASTM F480 |

1. Please note that AWWA A100-15 Method C1 is not allowed to be used, see 30 TAC §290.41(c)(3)(C). [↑](#footnote-ref-1)
2. Borehole minus outside diameter of casing pipe. [↑](#footnote-ref-2)