

## Appendix E: Supporting Information

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Well name: *Army 1 WW (MV-1)*

USGS site identification: 363530116021401

Land-surface altitude: 3,153 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

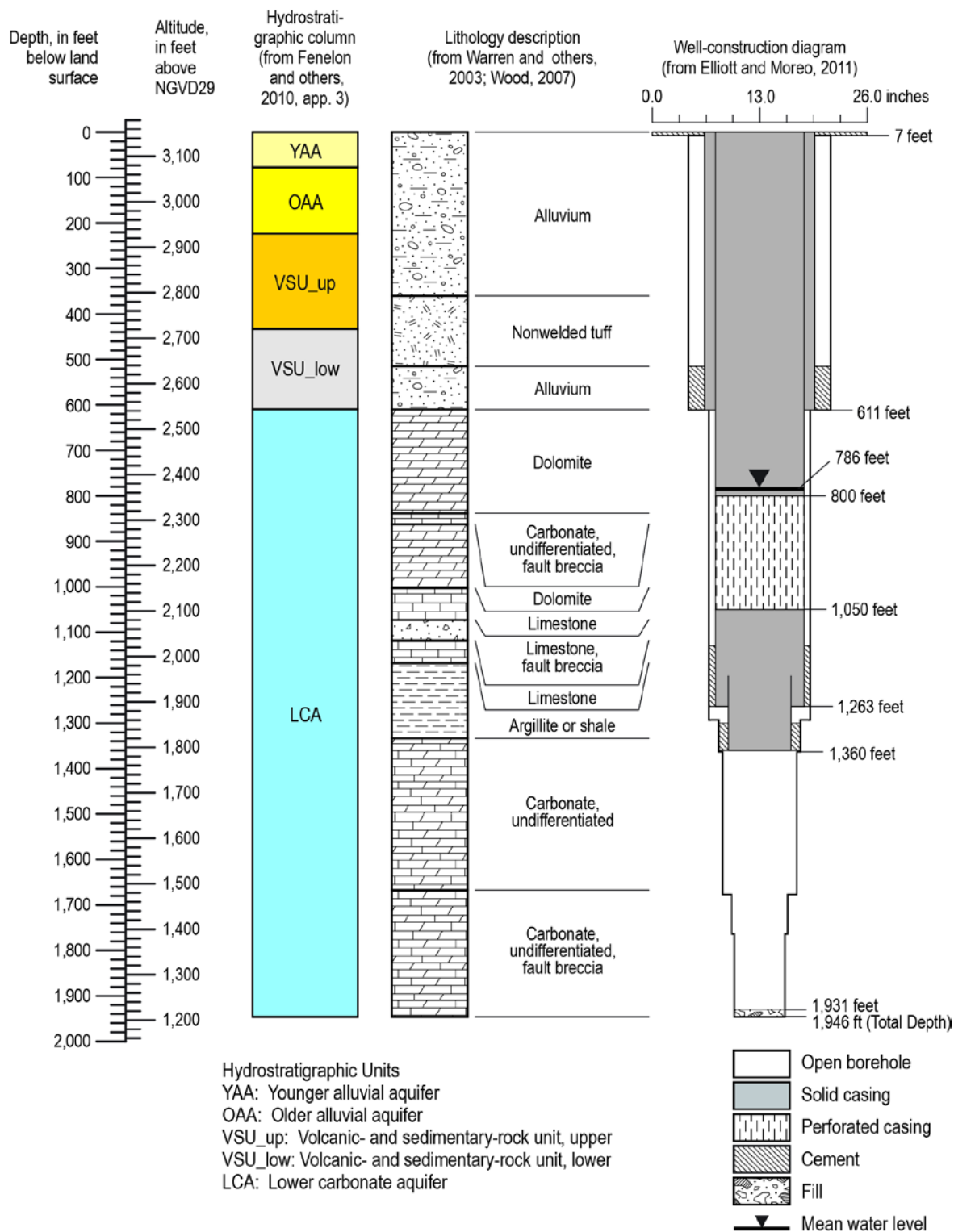


Figure E-1. Hydrostratigraphic units, lithology, and well construction for water-supply well *Army 1 WW (MV-1)*, Nevada National Security Site, Nye County, Nevada.

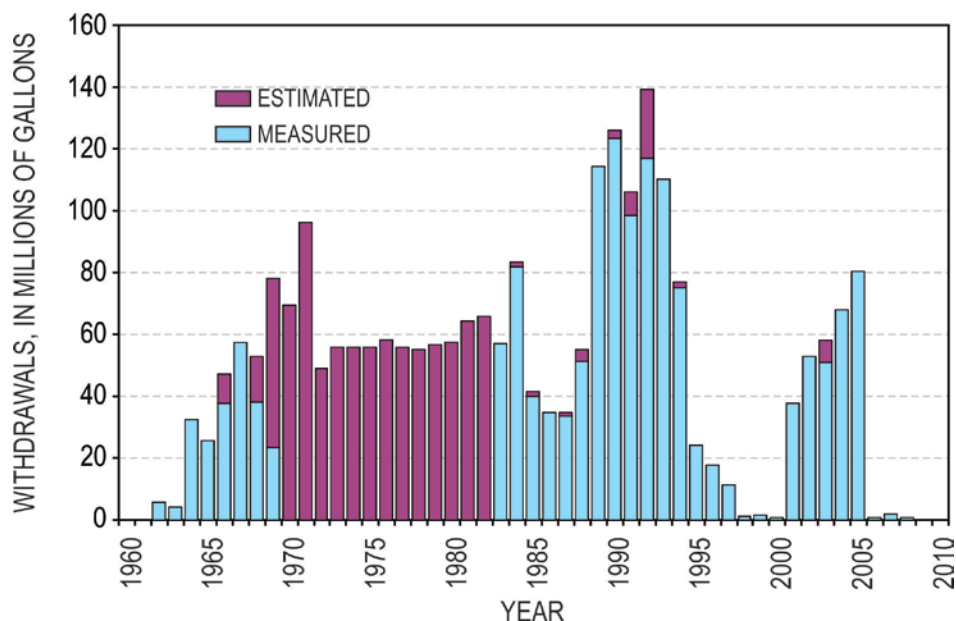


Figure E-2. Annual groundwater withdrawals for water-supply well Army 1 WW (MV-1), Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

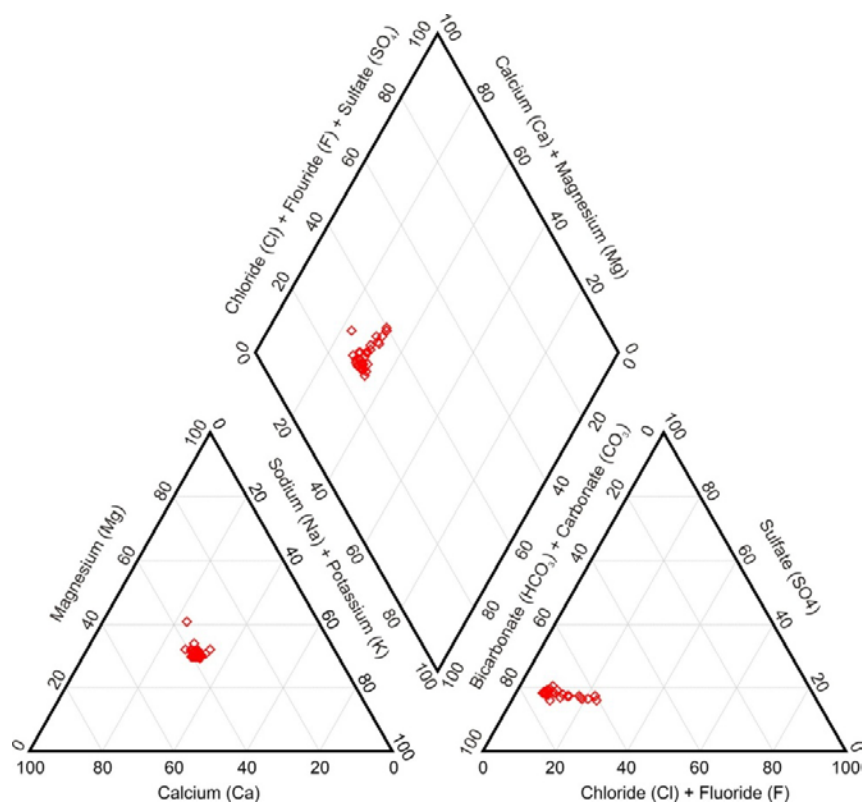


Figure E-3. Tri-linear plot of major ion concentrations in groundwater sampled from water-supply well Army 1 WW (MV-1), Nevada National Security Site, Nye County, Nevada.

Well name: *J-12 WW*

USGS site identification: 364554116232401

Land-surface altitude: 3,128 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

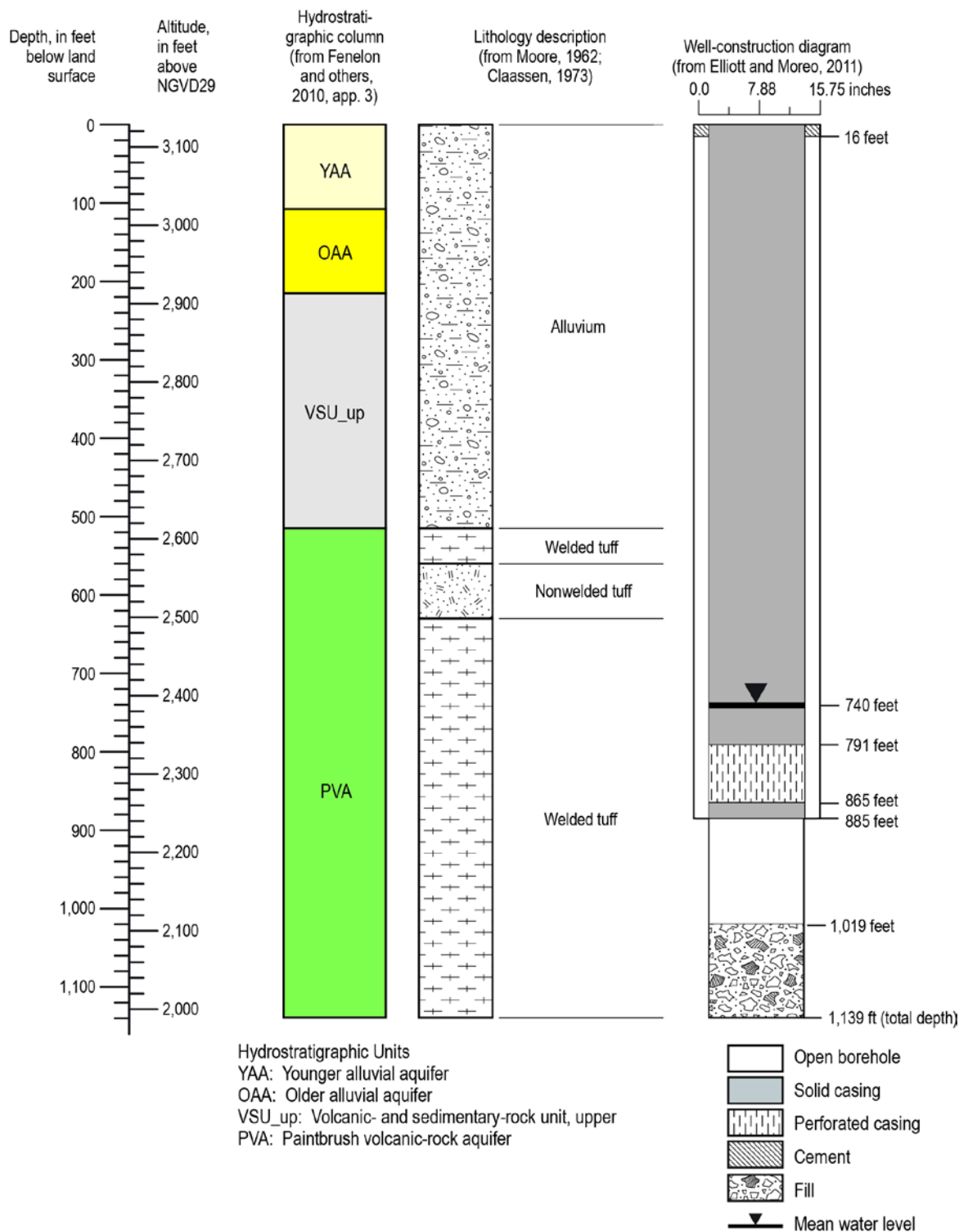


Figure E-4. Hydrostratigraphic units, lithology, and well construction for water-supply well J-12 WW, Nevada National Security Site, Nye County, Nevada.

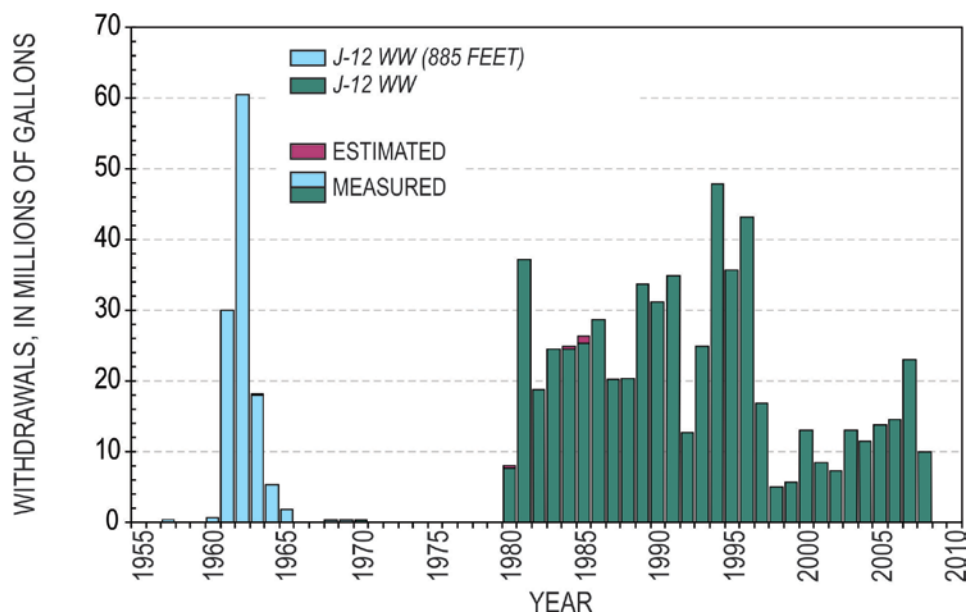


Figure E-5. Annual groundwater withdrawals for water-supply wells J-12 WW (885 feet) and J-12 WW, Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

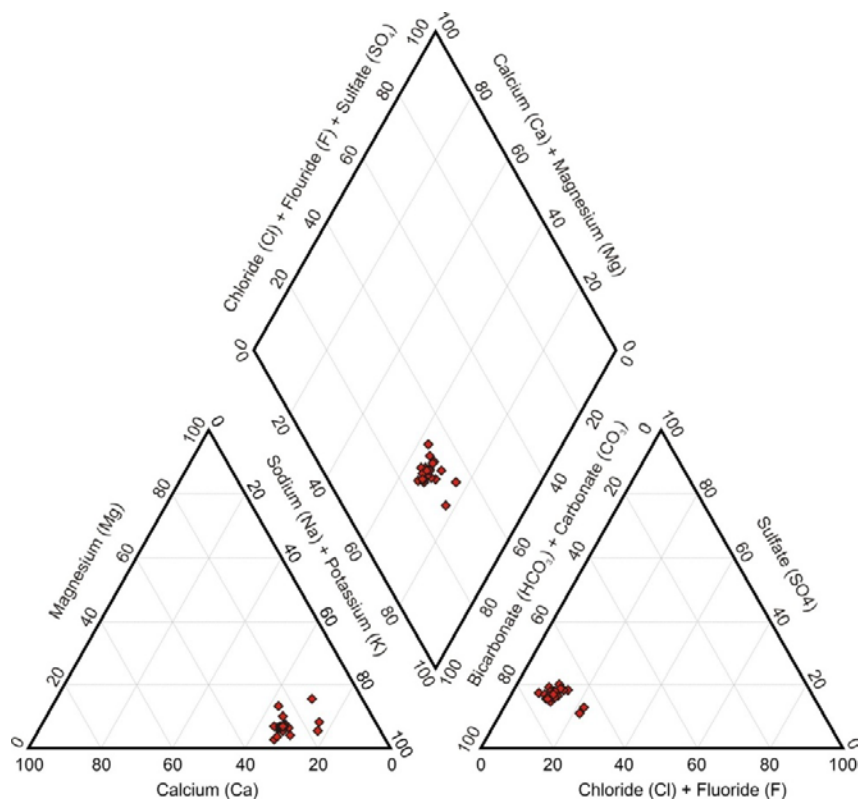


Figure E-6. Tri-linear plot of major ion concentrations for groundwater sampled from water-supply wells J-12 WW (885 feet) and J-12 WW, Nevada National Security Site, Nye County, Nevada.

Well name: *J-13 WW*

USGS site identification: 364828116234001

Land-surface altitude: 3,318 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

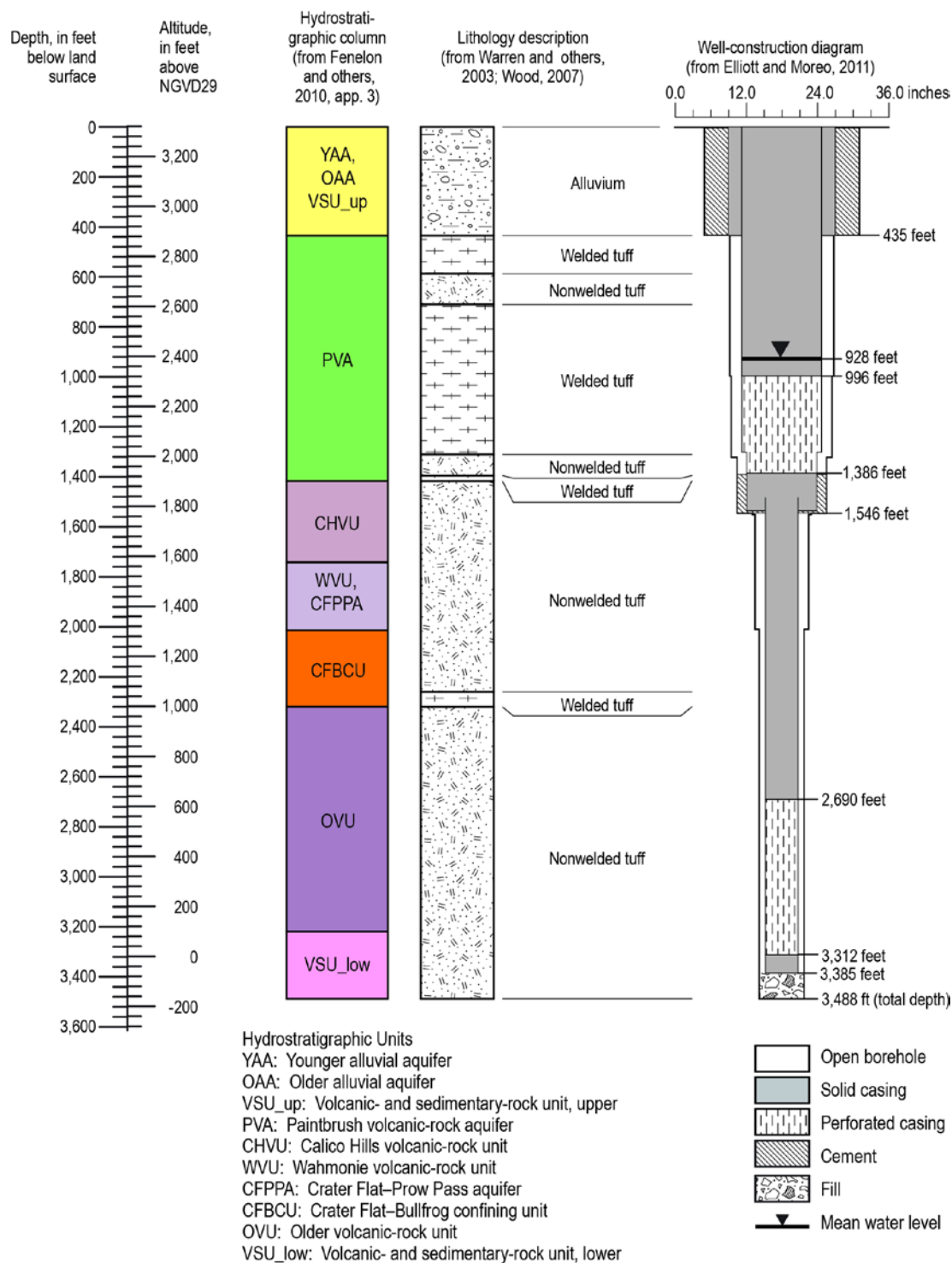


Figure E-7. Hydrostratigraphic units, lithology, and well construction for water-supply well J-13 WW, Nevada National Security Site, Nye County, Nevada.

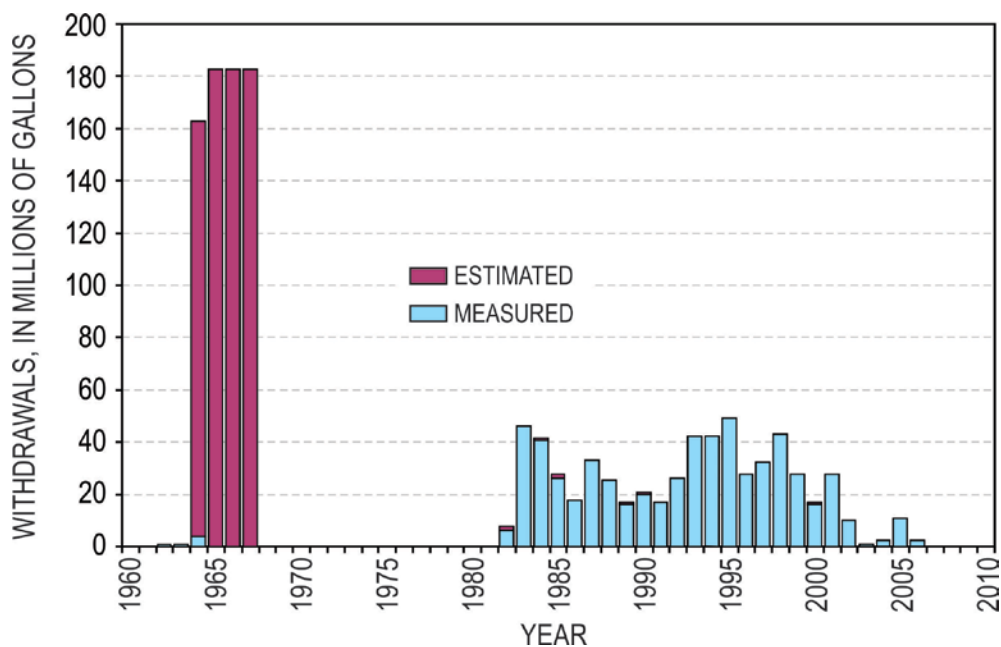


Figure E-8. Annual groundwater withdrawals for water-supply well J-13 WW, Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

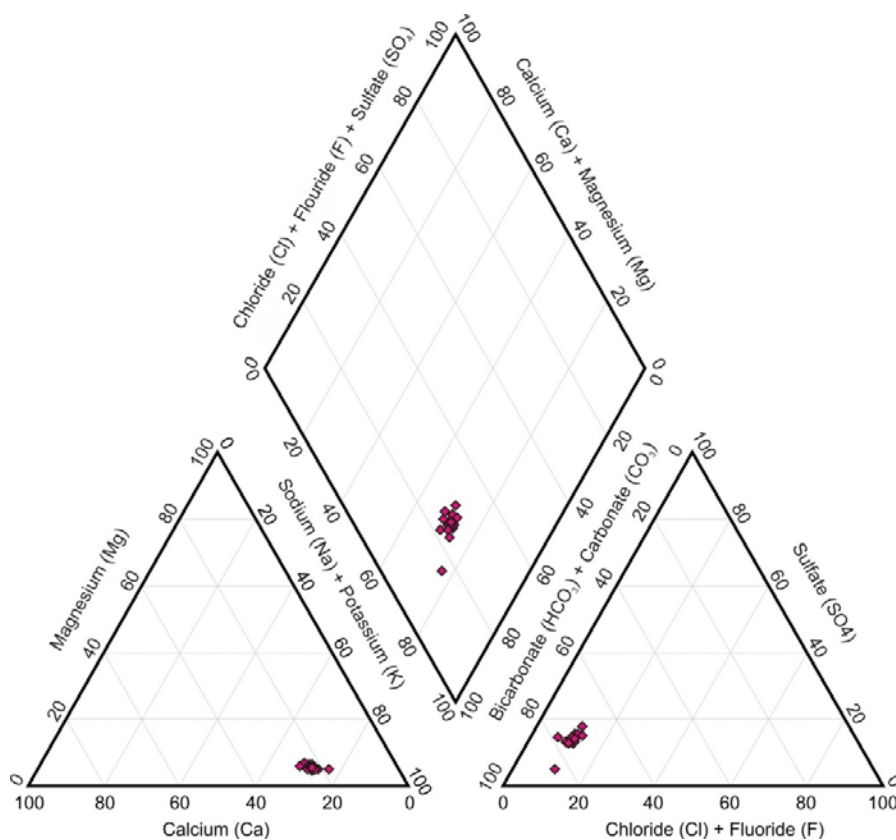


Figure E-9. Tri-linear plot of major ion concentrations for groundwater sampled from water-supply well J-13 WW, Nevada National Security Site, Nye County, Nevada

Well name: *U-20 WW (cased)*

USGS site identification: 371505116254501

Land-surface altitude: 6,468 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

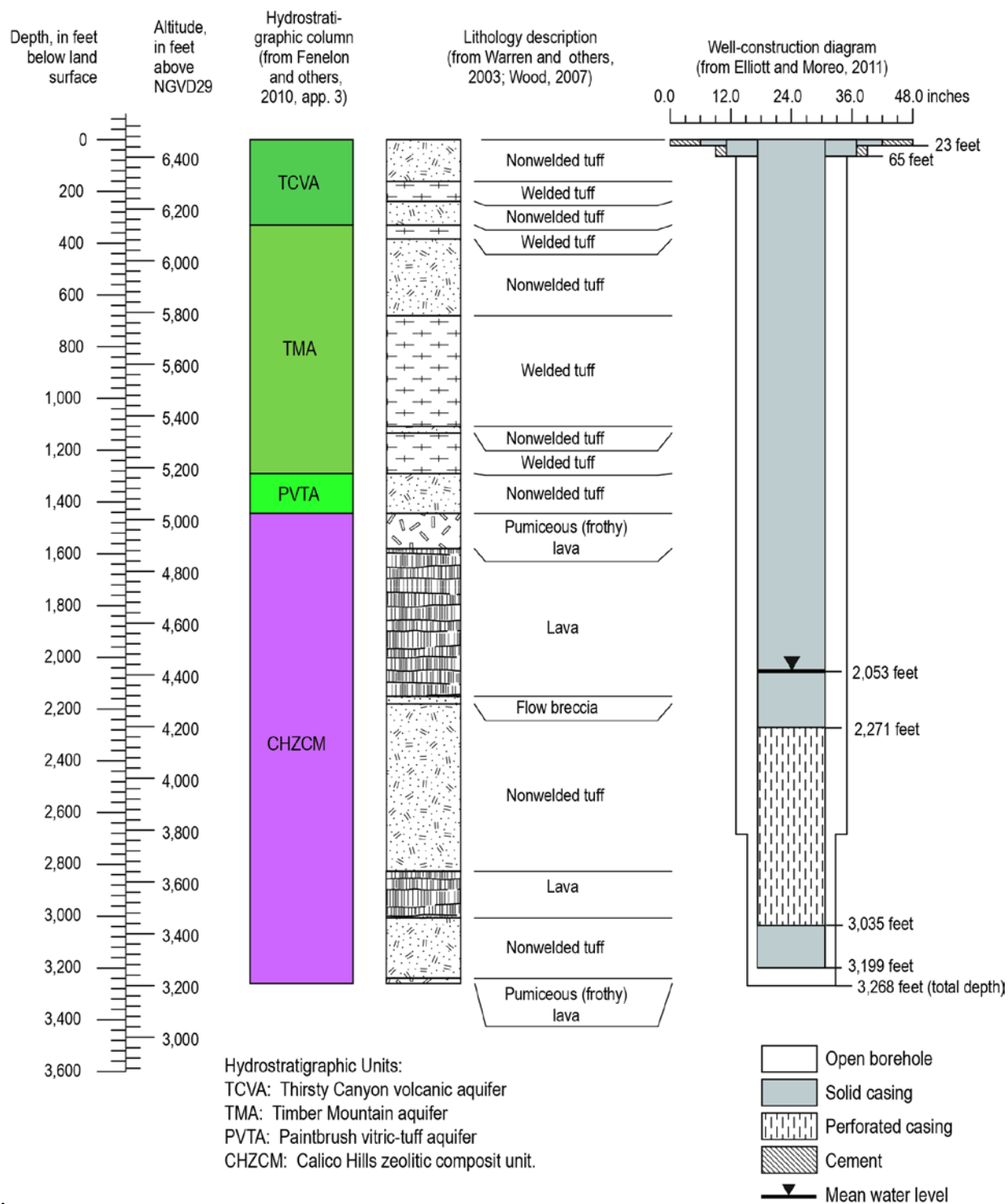


Figure E-10. Hydrostratigraphic units, lithology, and well construction for water-supply well *U-20 WW (cased)*, Nevada National Security Site, Nye County, Nevada.



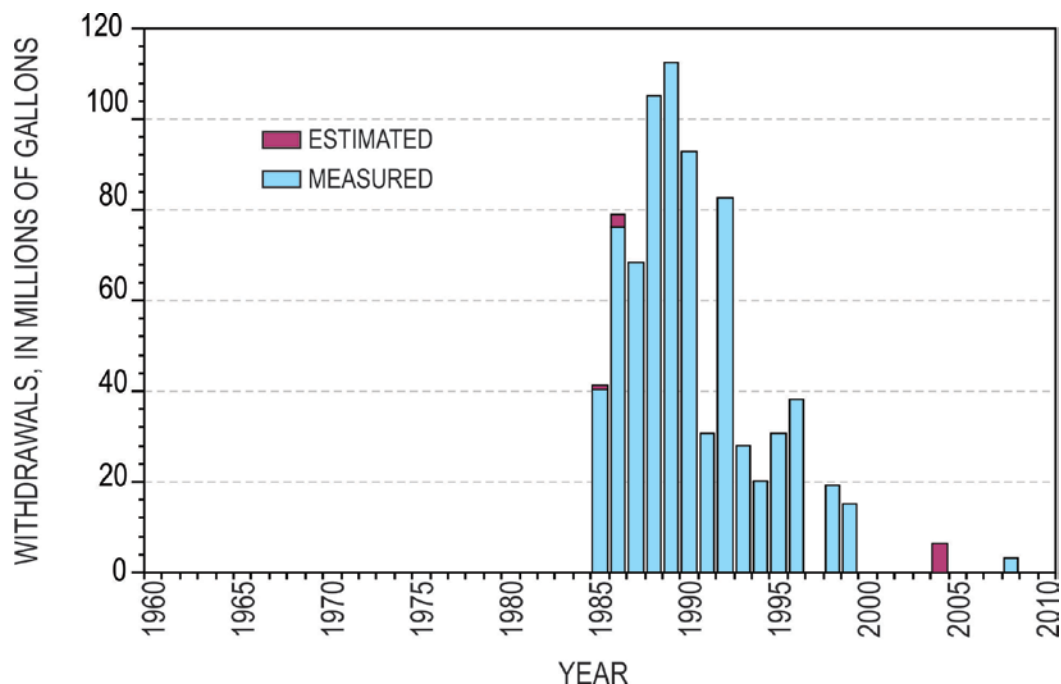


Figure E-11. Annual groundwater withdrawals for water-supply well U-20 WW (cased), Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

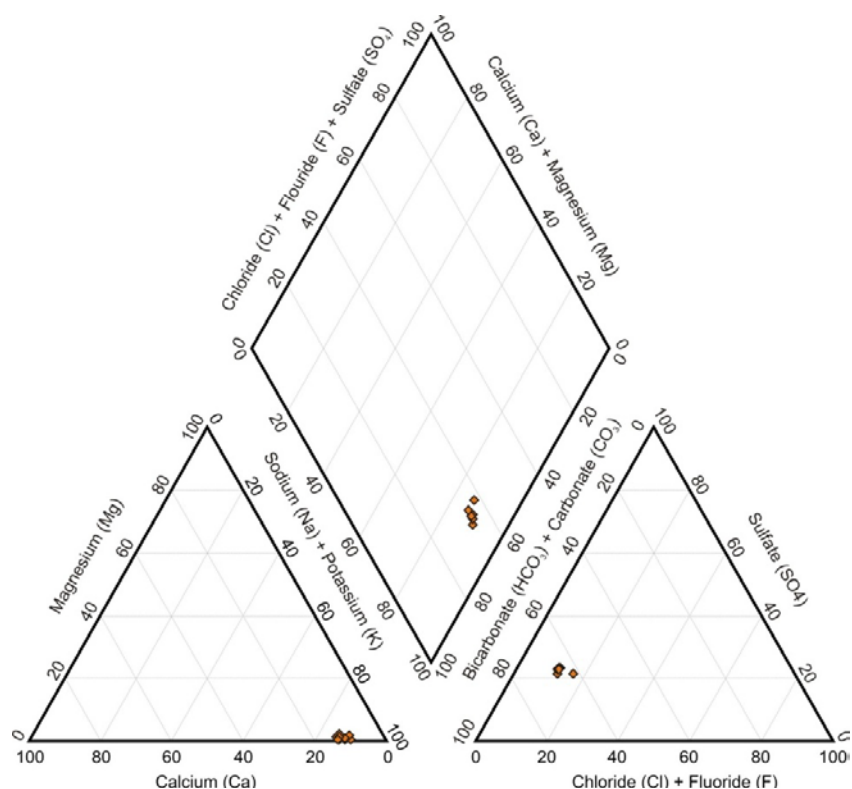


Figure E-12. Tri-linear plot of major ion concentrations for groundwater sampled from water-supply well U-20 WW (cased), Nevada National Security Site, Nye County, Nevada.



Well name: *UE-5c WW*

USGS site identification: 365011115584702

Land-surface altitude: 3,216 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

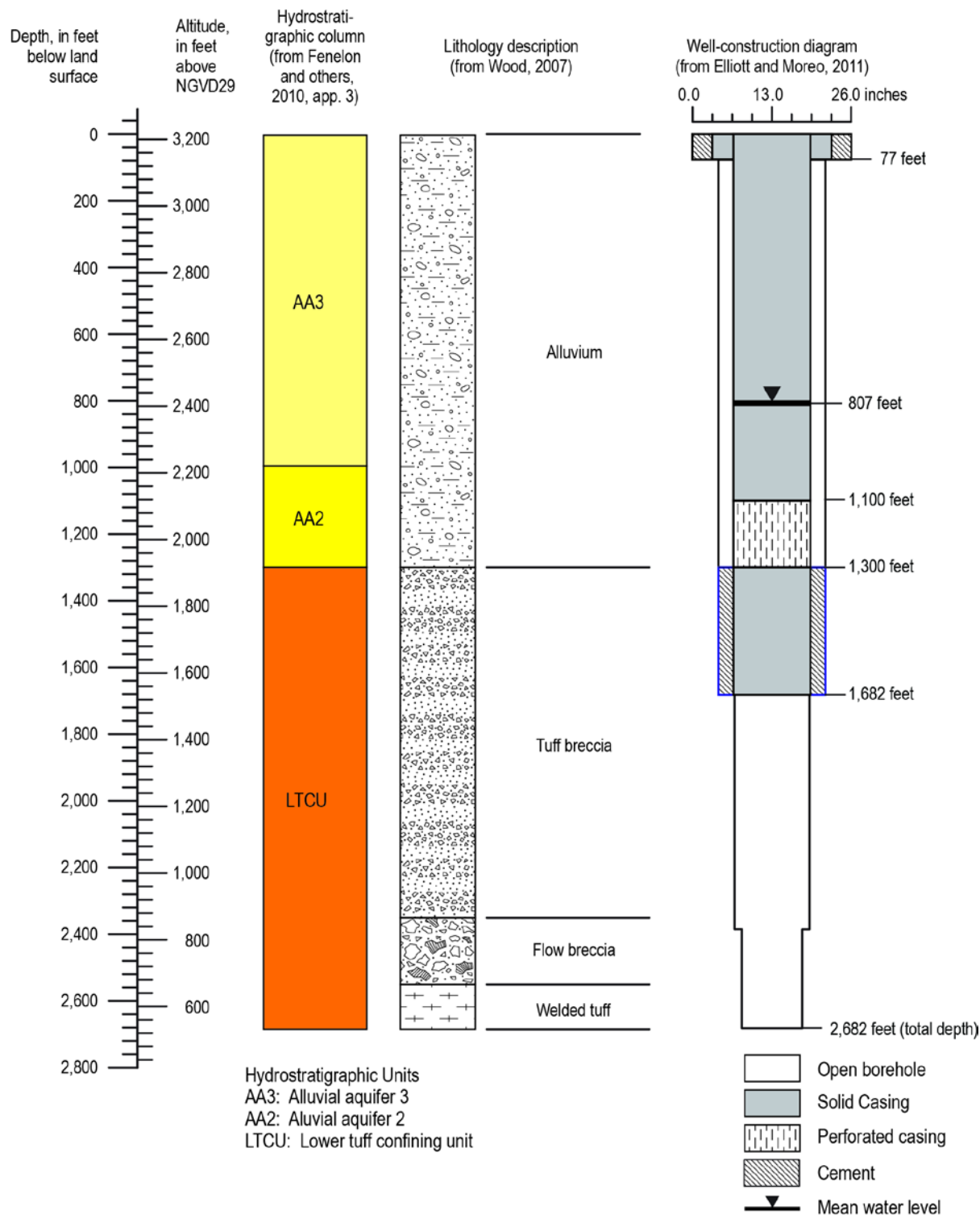


Figure E-13. Hydrostratigraphic units, lithology, and well construction for water-supply well *UE-5c WW*, Nevada National Security Site, Nye County, Nevada.

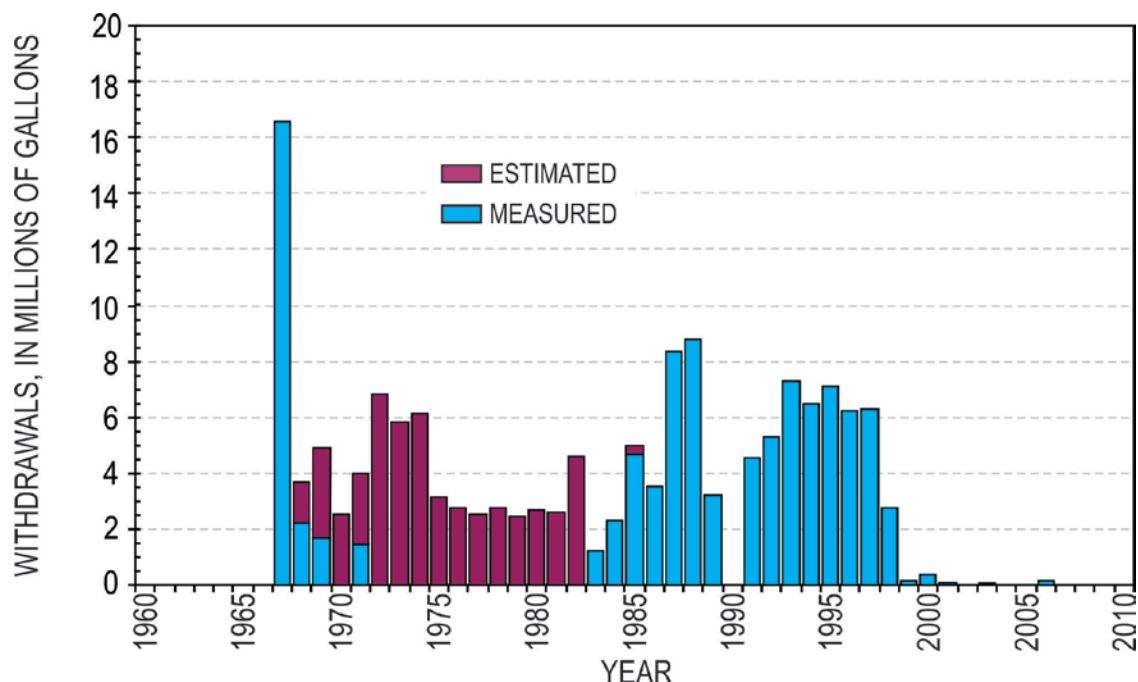


Figure E-14. Annual groundwater withdrawals for water-supply well UE-5c WW, Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

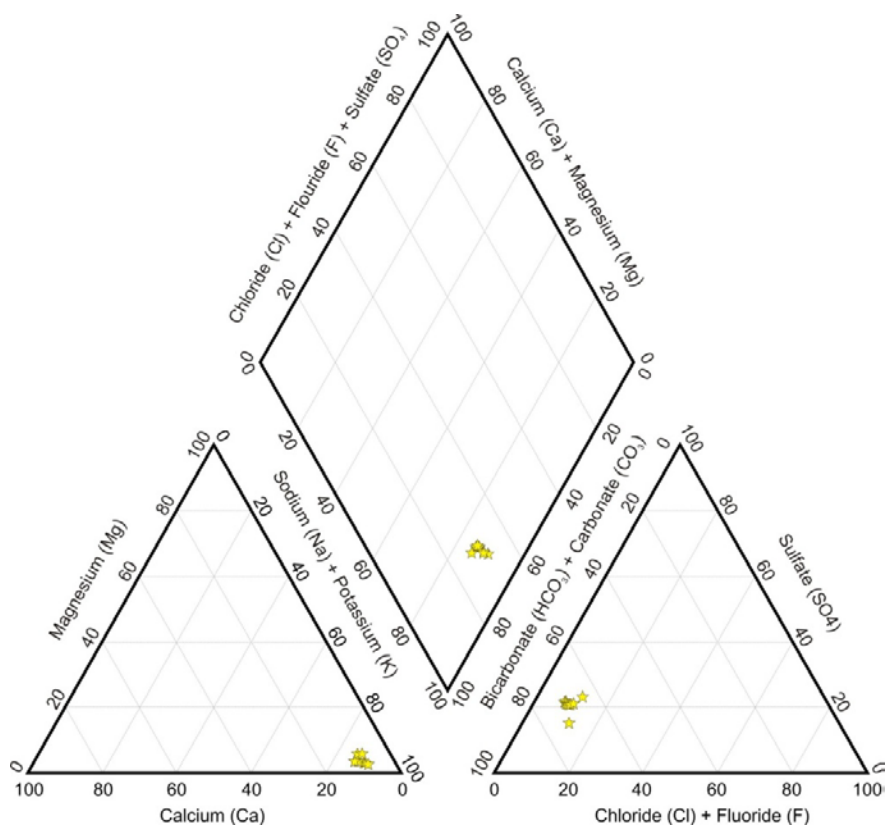


Figure E-15. Tri-linear plot of major ion concentrations in groundwater sampled from water-supply well UE-5c WW, Nevada National Security Site, Nye County, Nevada.

Well name: *UE-15d WW (cased)*

USGS site identification: 371230116021501

Land-surface altitude: 4,586 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

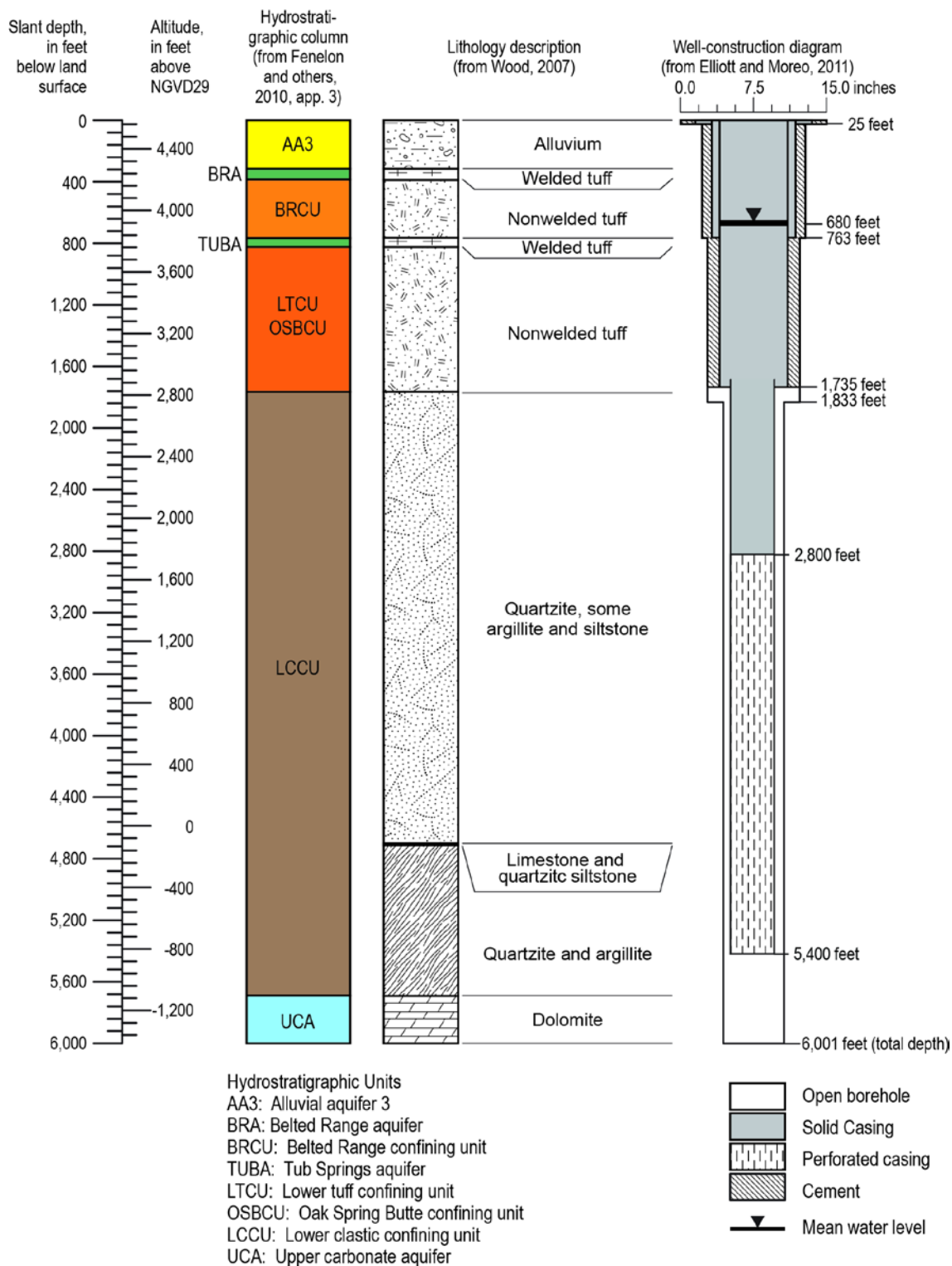


Figure E-16. Hydrostratigraphic units, lithology, and well construction for water-supply well *UE-15d WW (cased)*, Nevada National Security Site, Nye County, Nevada.

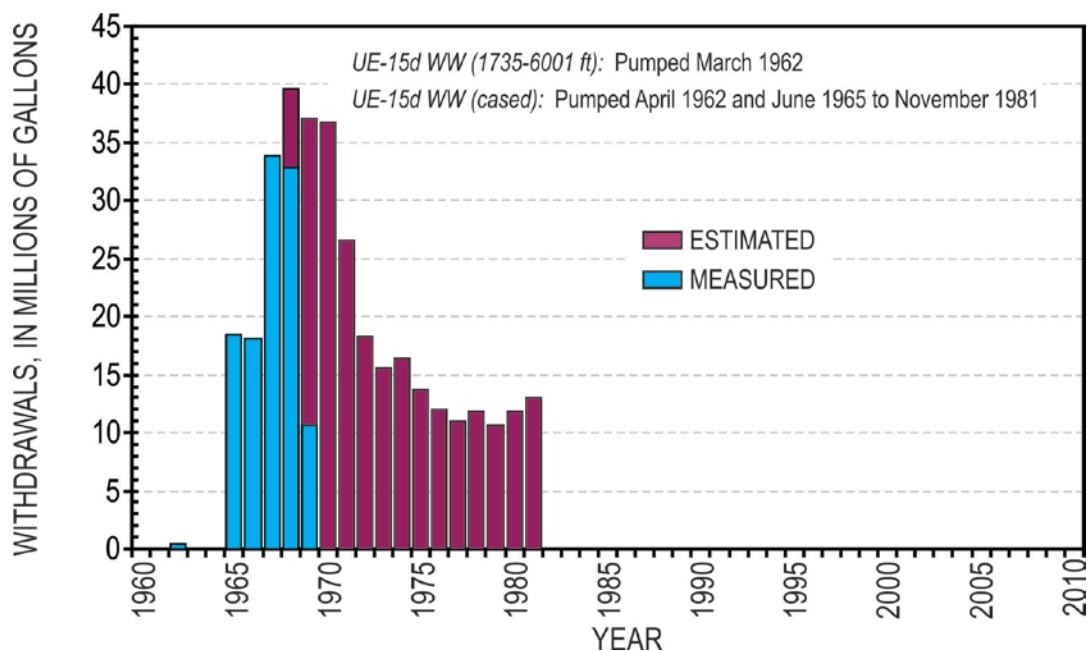


Figure E-17. Annual groundwater withdrawals from water-supply wells UE-15d WW (1735-6001 ft) and UE-15d WW (cased), Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

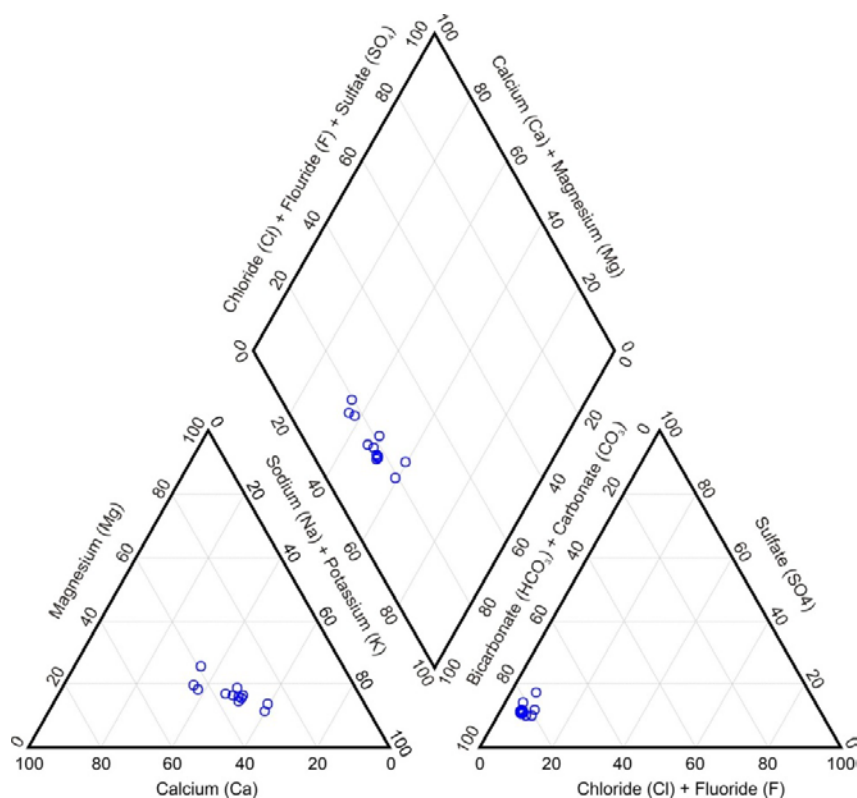


Figure E-18. Tri-linear plot of major ion concentrations in groundwater sampled from water-supply well UE-15d WW (1735-6001 ft) and UE-15d WW (cased), Nevada National Security Site, Nye County, Nevada.

Well name: *UE-16d WW*

USGS site identification: 370412116095101

Land-surface altitude: 4,684 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

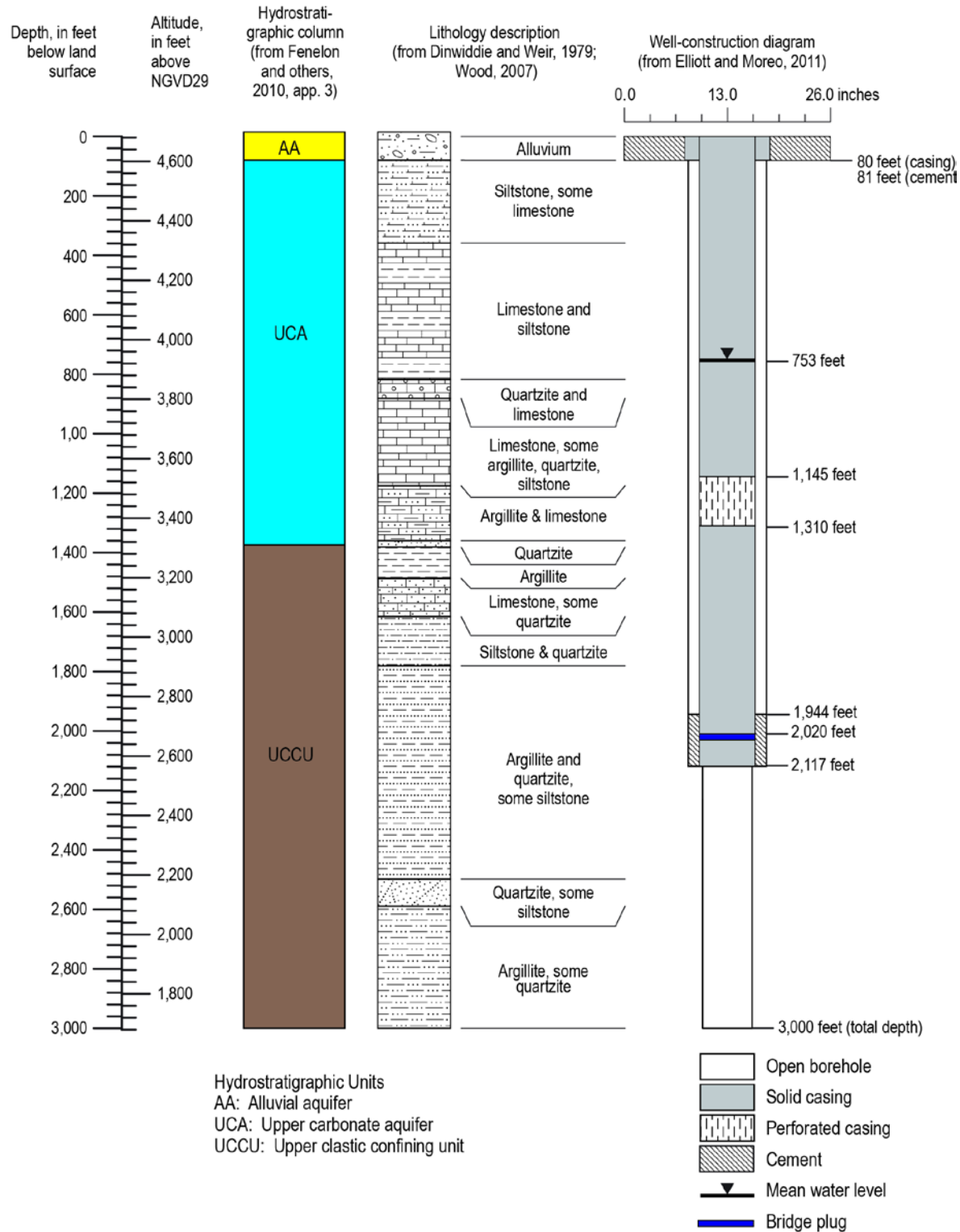


Figure E-19. Hydrostratigraphic units, lithology, and well construction for water-supply well *UE-16d WW*, Nevada National Security Site, Nye County, Nevada.

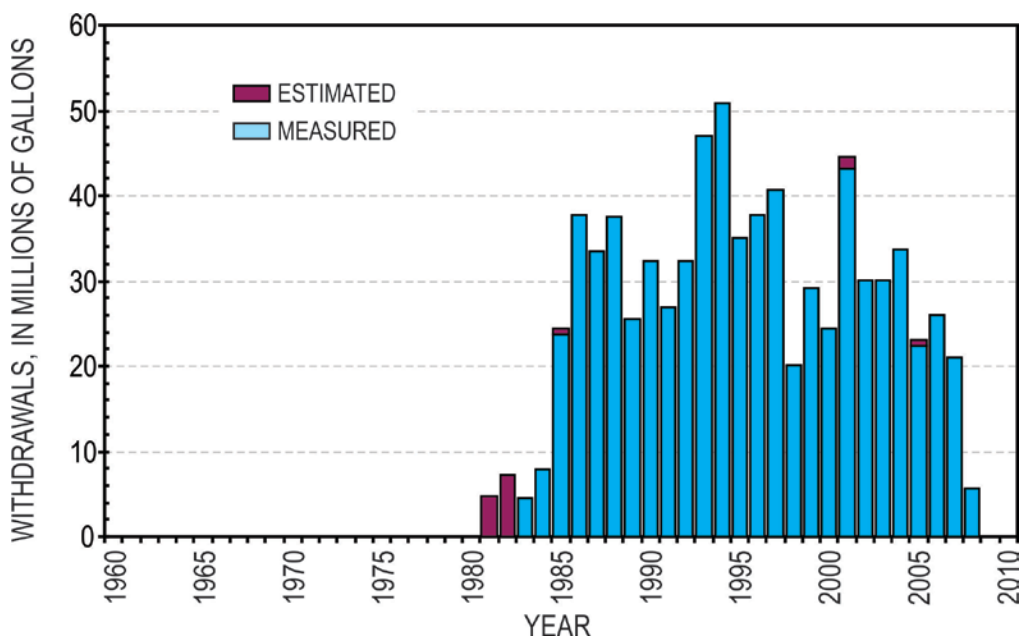


Figure E-20. Annual groundwater withdrawals from water-supply well UE-16d WW, Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

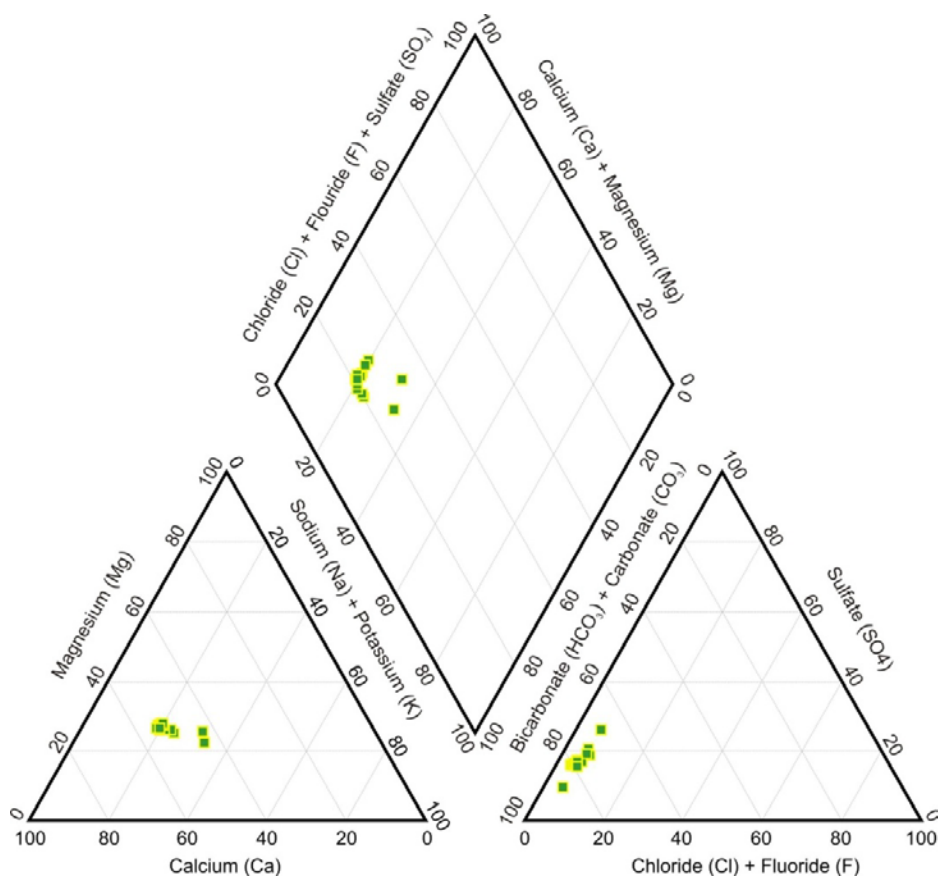


Figure E-21. Tri-linear plot of major ion concentrations in groundwater sampled from water-supply well UE-16d WW, Nevada National Security Site, Nye County, Nevada.



Well name: *UE-19c WW*

USGS site identification: 371608116191002

Land-surface altitude: 7,033 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

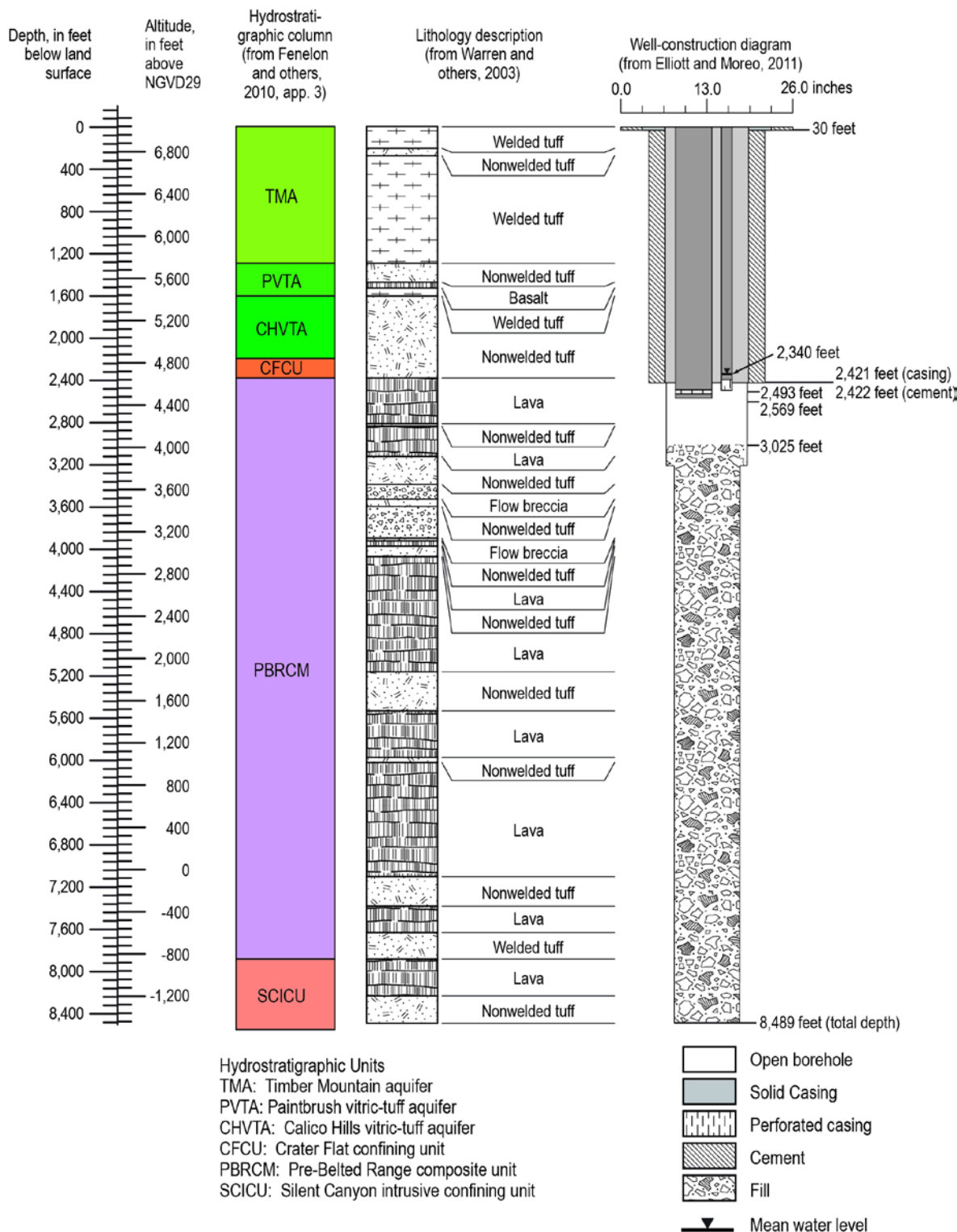


Figure E-22. Hydrostratigraphic units, lithology, and well construction for water-supply well *UE-19c WW*, Nevada National Security Site, Nye County, Nevada.

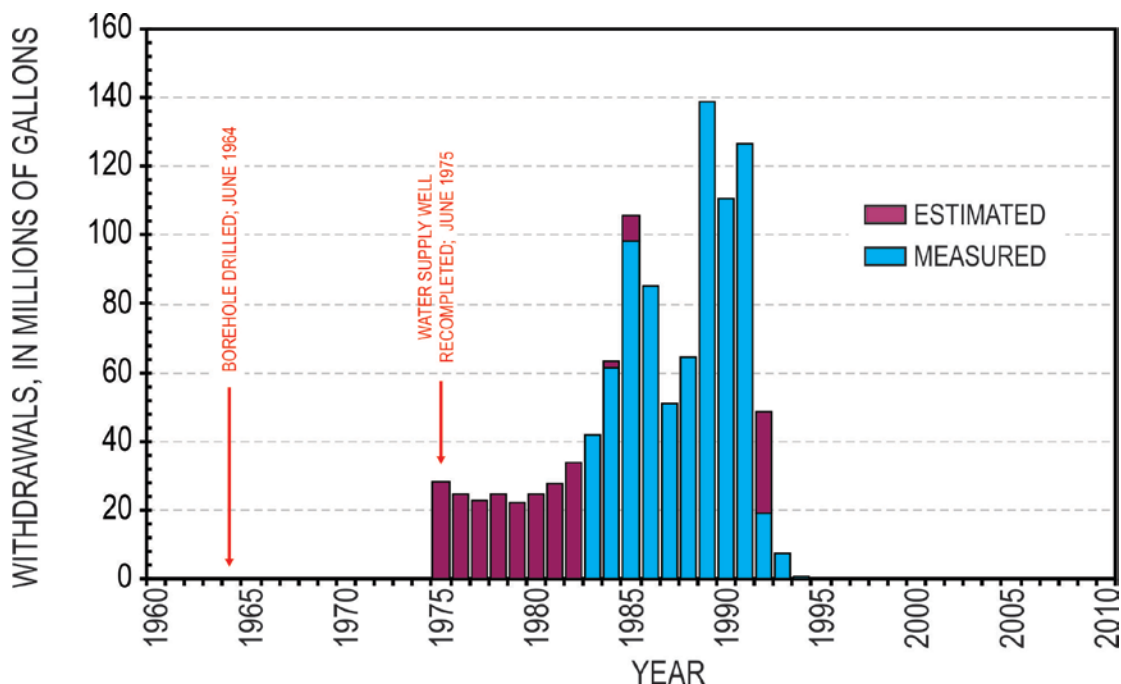


Figure E-23. Annual groundwater withdrawals for water-supply well UE-19c WW, Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

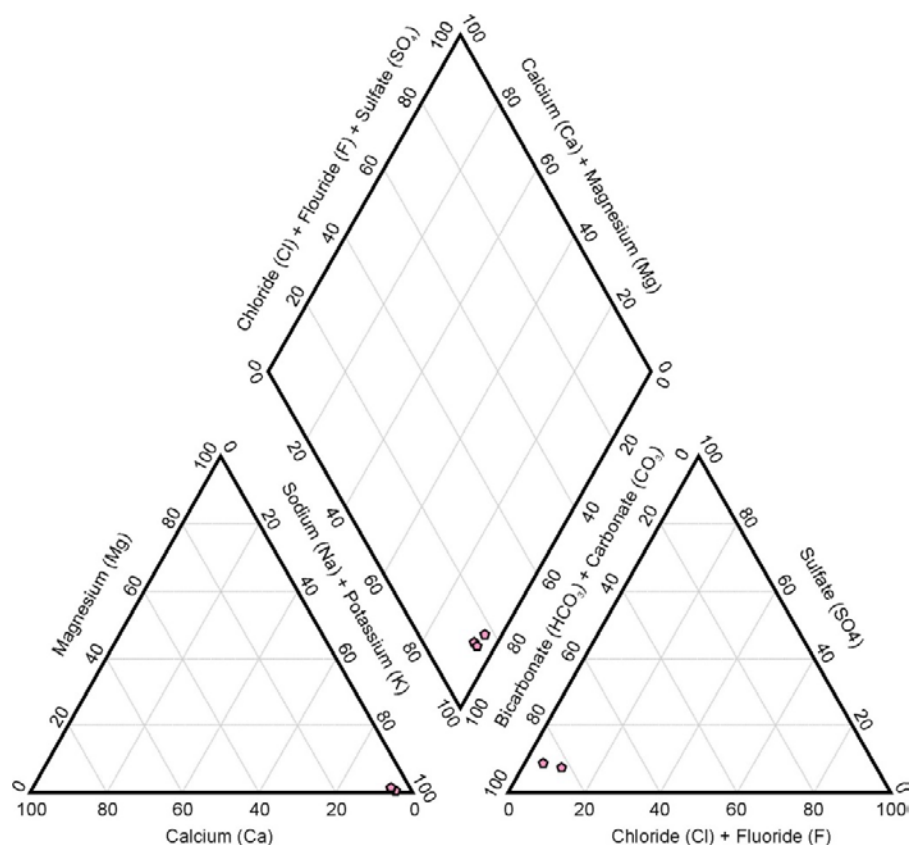


Figure E-24. Tri-linear plot of major ion concentrations for groundwater sampled from water-supply well UE-19c WW, Nevada National Security Site, Nye County, Nevada.



Well name: *WW-2 (3422 ft)*

USGS site identification: 370958116051512

Land-surface altitude: 4,470 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

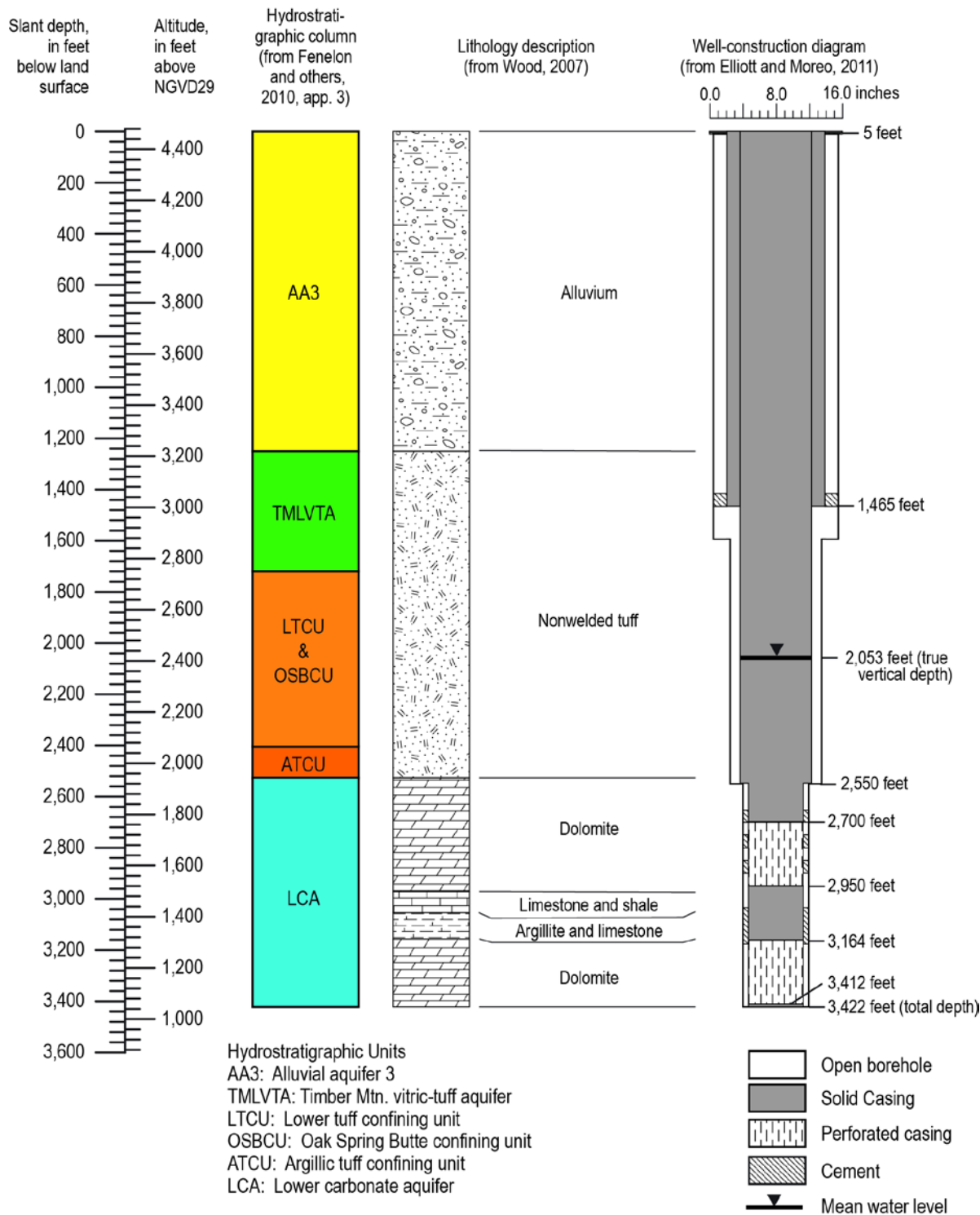


Figure E-25. Hydrostratigraphic units, lithology, and well construction for water-supply well WW-2 (3422 ft), Nevada National Security Site, Nye County, Nevada.

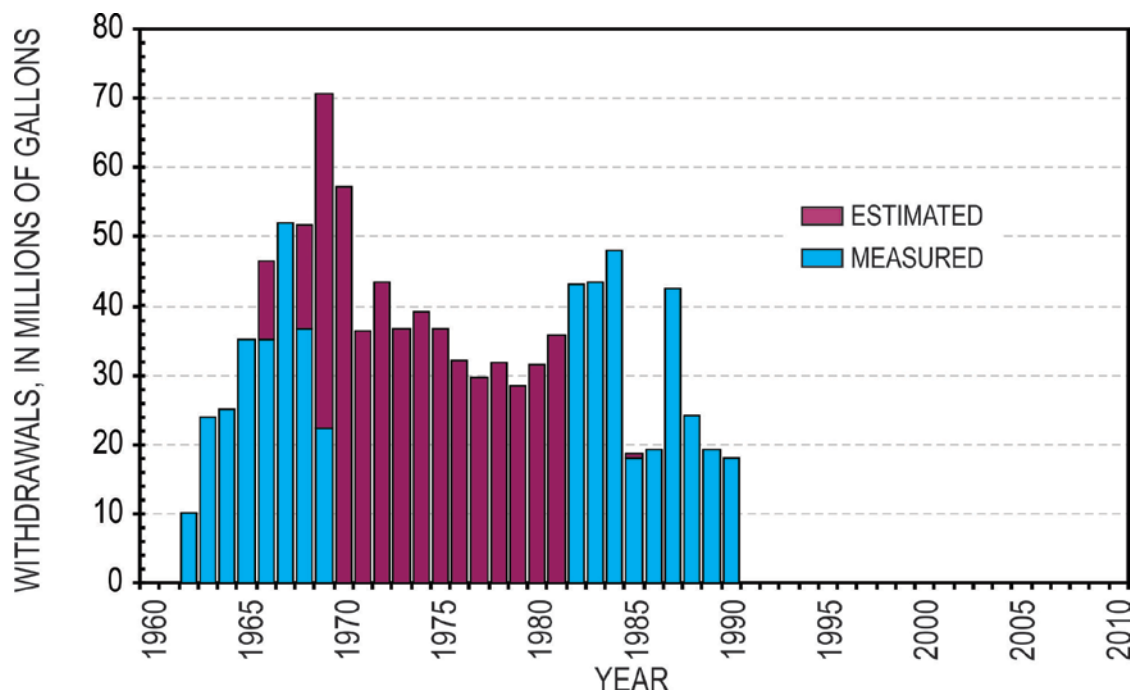


Figure E-26. Annual groundwater withdrawals for water-supply well WW-2 (3422 ft), Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

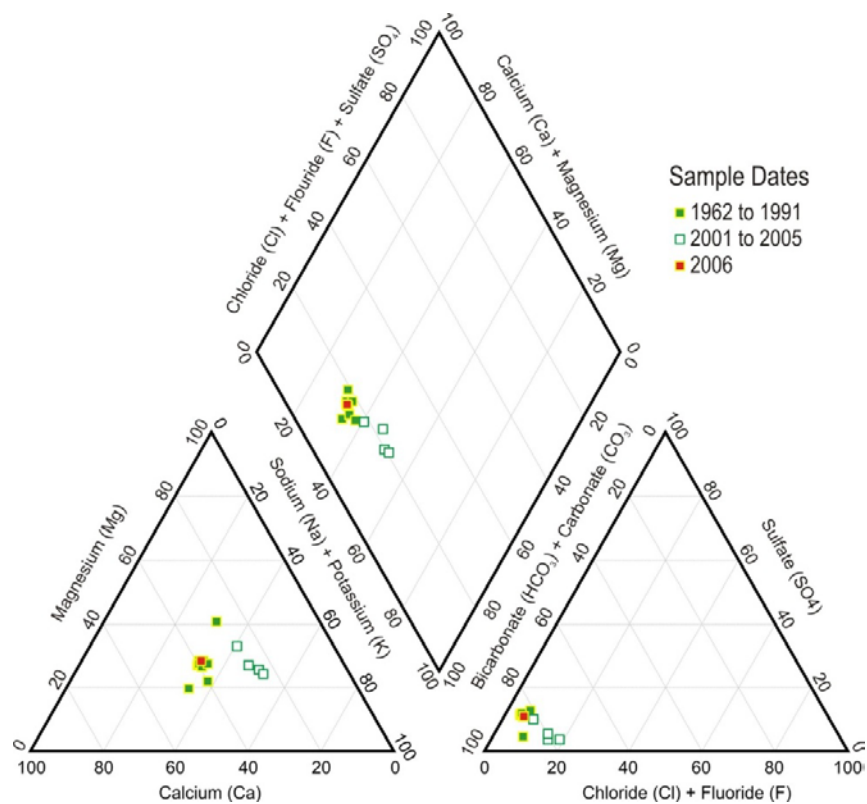


Figure E-27. Tri-linear plot of major ion concentrations for groundwater sampled from water-supply well WW-2 (3422 ft), Nevada National Security Site, Nye County, Nevada.

Well name: *WW-3 (1800 ft)*

USGS site identification: 365942116032901

Land-surface altitude: 3,969 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

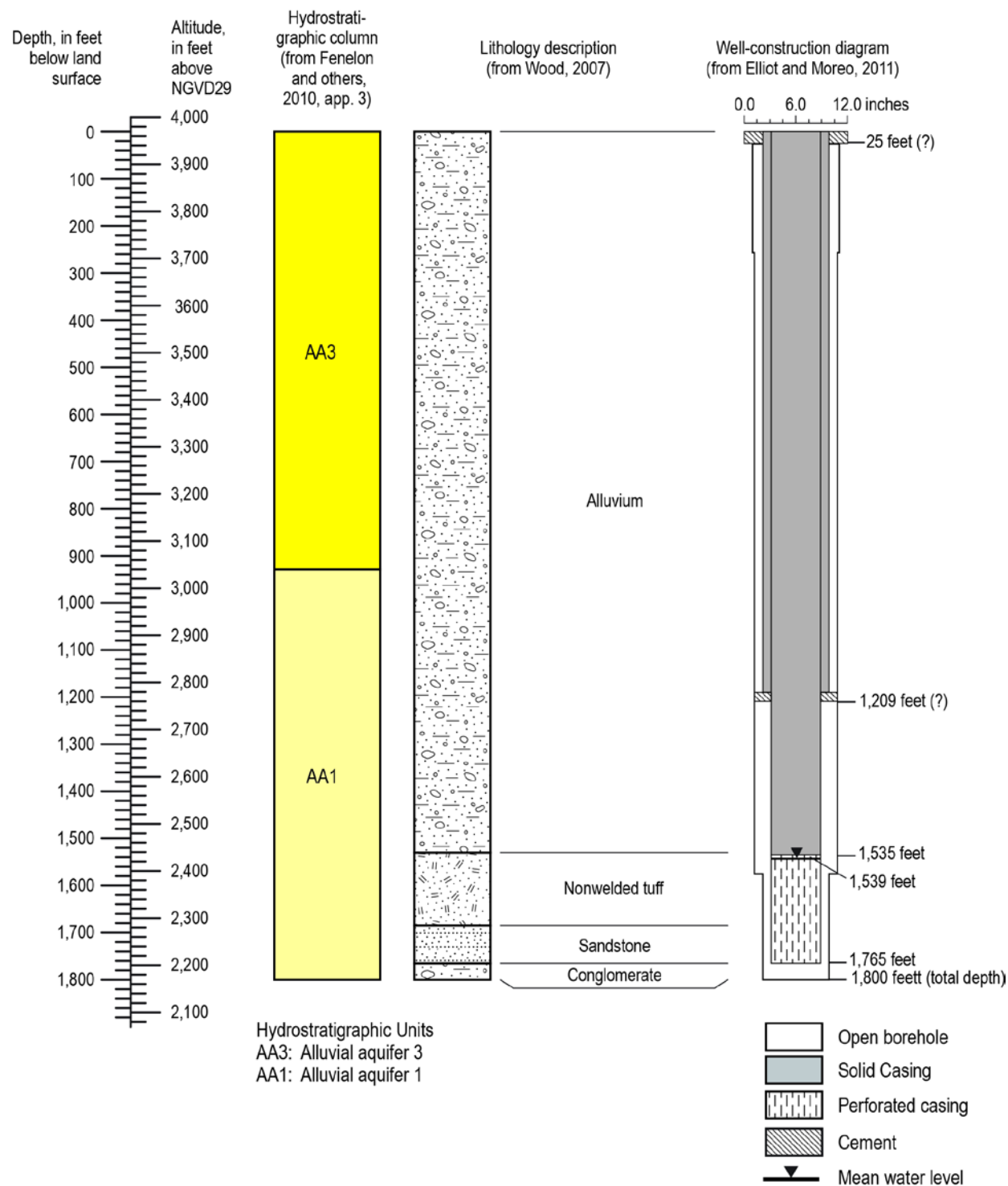


Figure E-28. Hydrostratigraphic units, lithology, and well construction for water-supply well *WW-3 (1800 ft)*, Nevada National Security Site, Nye County, Nevada.

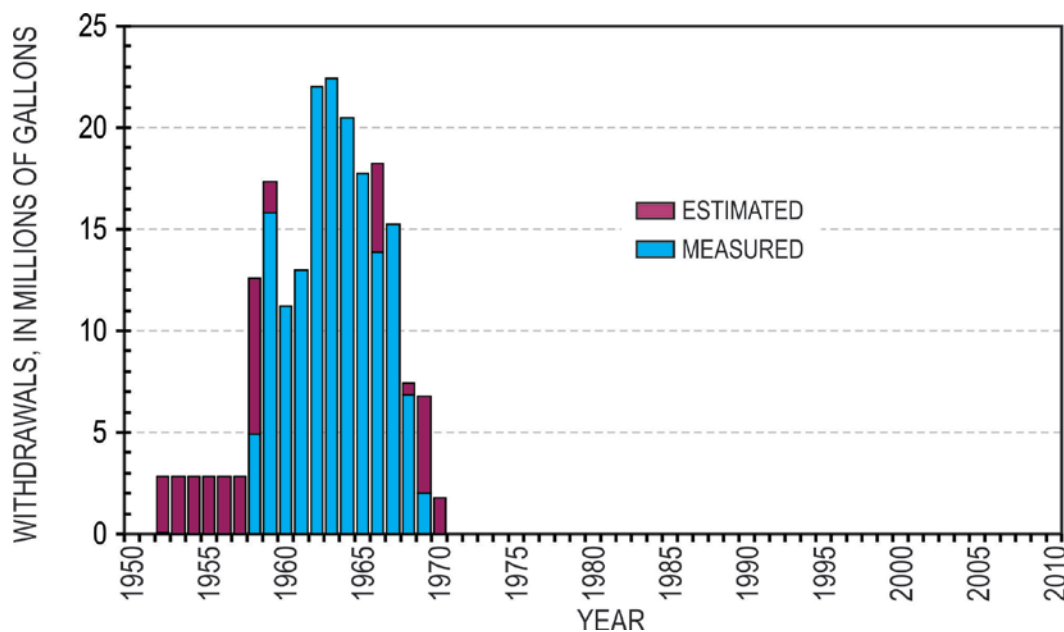


Figure E-29. Annual groundwater withdrawals for water-supply well WW-3 (1800 ft), Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011)

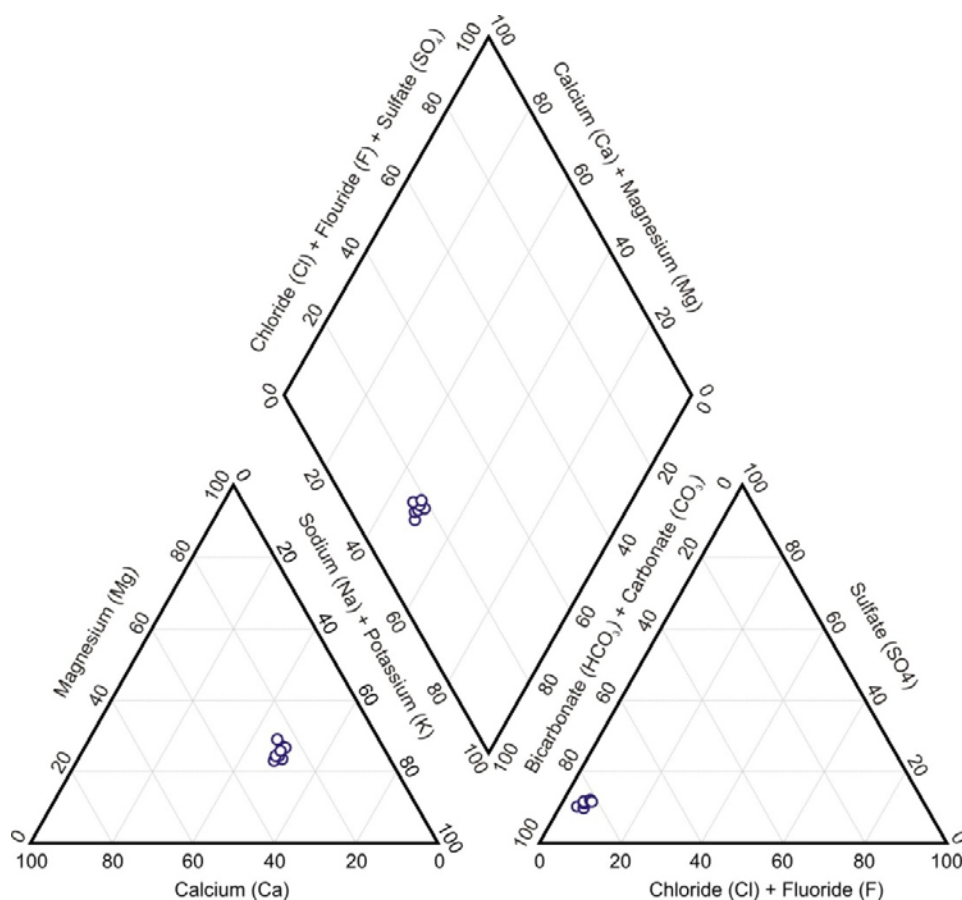


Figure E-30. Tri-linear plot of major ion concentrations for groundwater sampled from water-supply well WW-3 (1800 ft), Nevada National Security Site, Nye County, Nevada.

Well name: *WW-4*

USGS site identification: 365418116012601

Land-surface altitude: 3,602 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

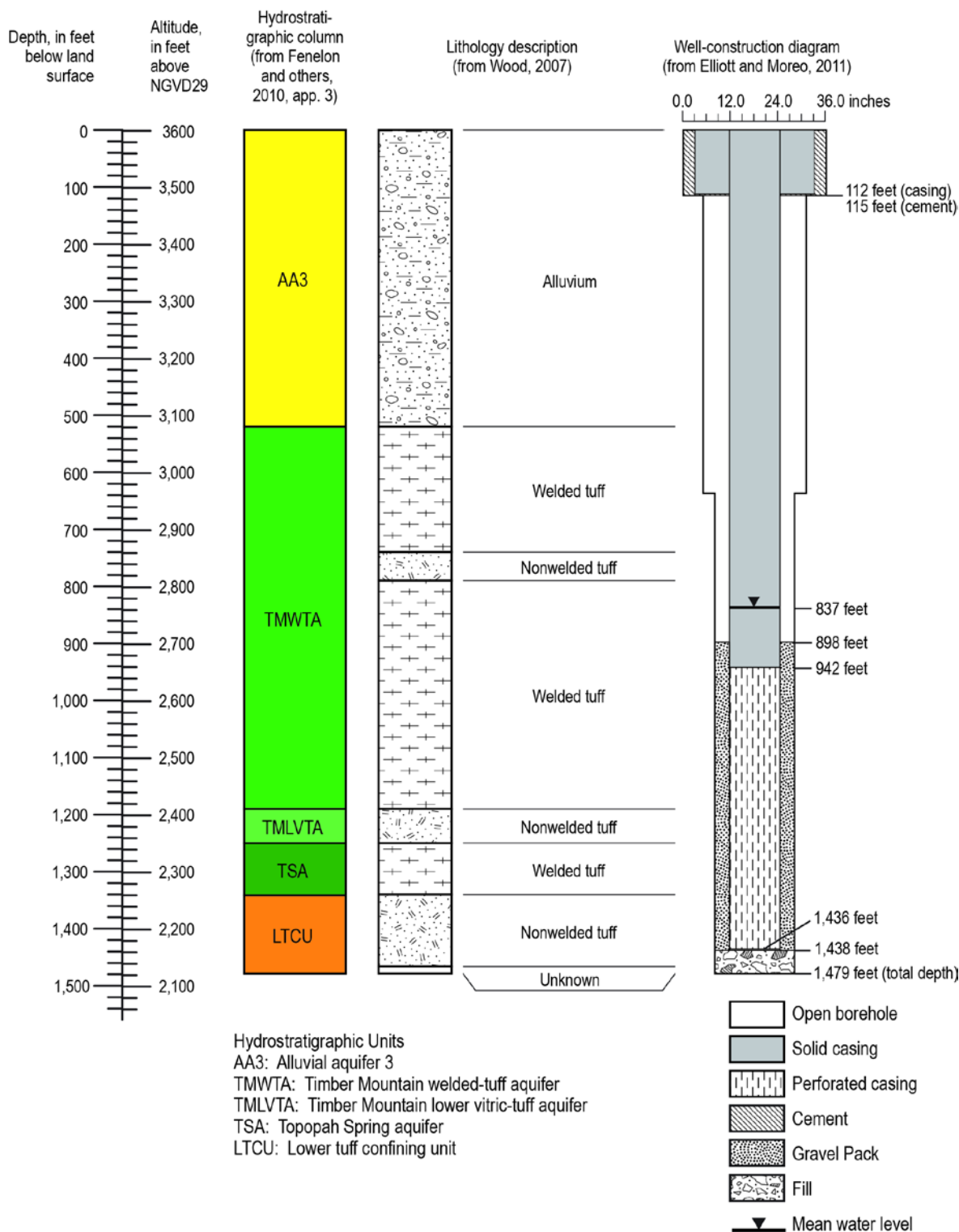


Figure E-31. Hydrostratigraphic units, lithology, and well construction for water-supply well WW-4, Nevada National Security Site, Nye County, Nevada.

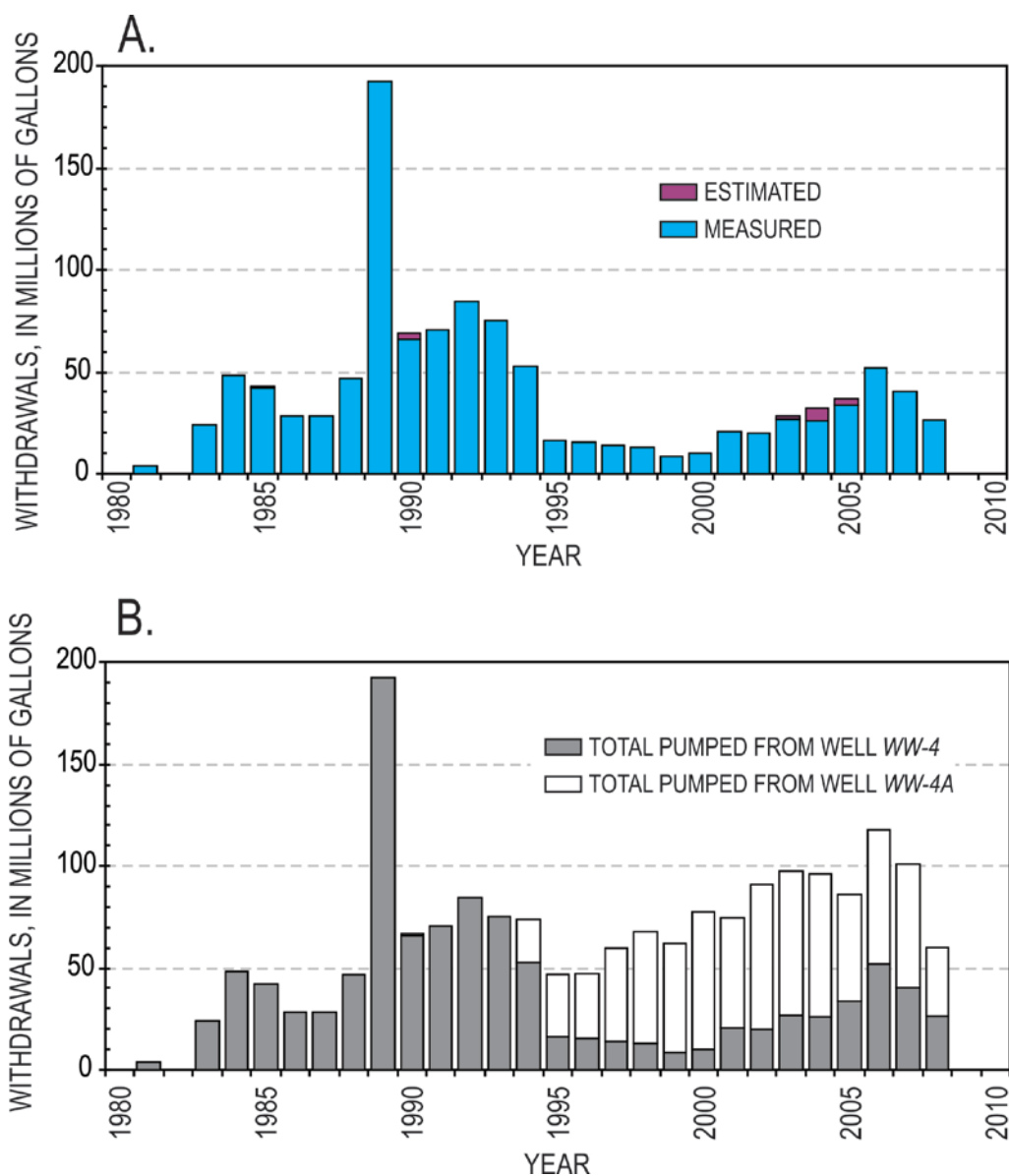


Figure E-32. Annual groundwater withdrawals for water-supply well WW-4, Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

(A) Measured and estimated groundwater withdrawals from WW-4; (B) Total groundwater withdrawals from WW-4 and WW-4A.

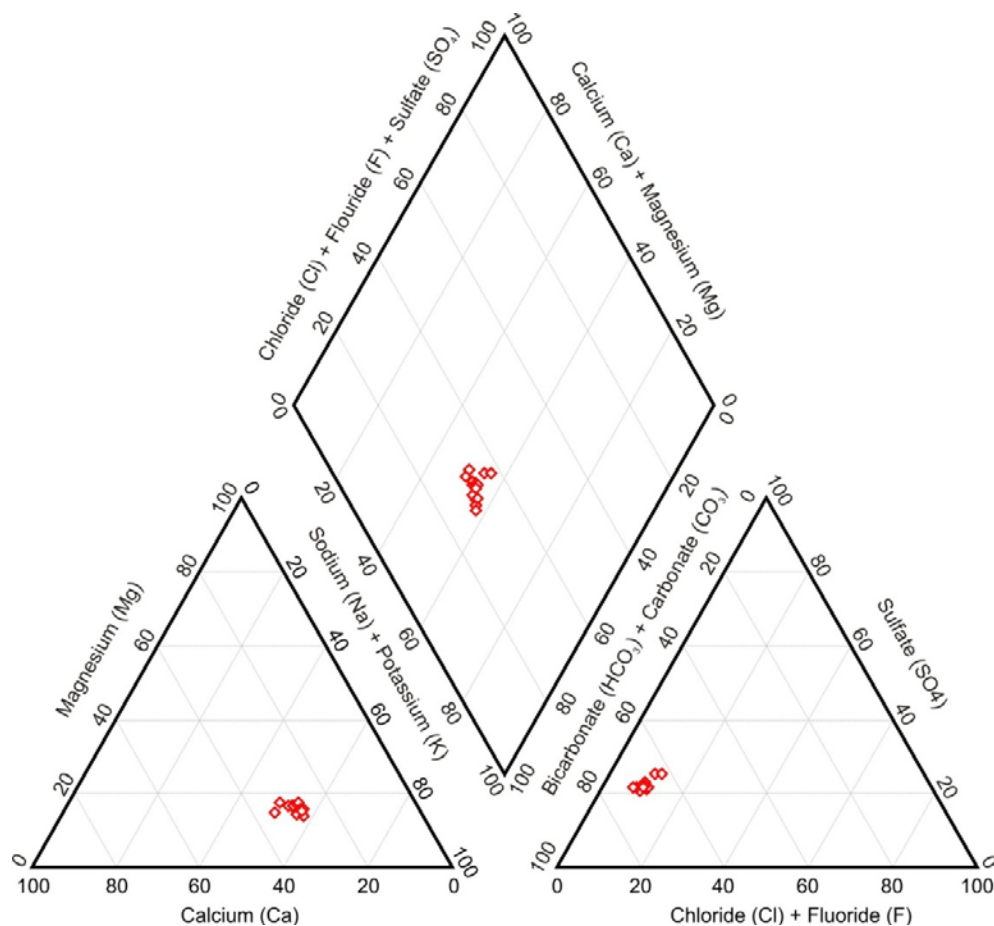


Figure E-33. Tri-linear plot of major ion concentrations for groundwater sampled from water-supply well WW-4, Nevada National Security Site, Nye County, Nevada.



Well name: *WW-4A*

USGS site identification: 365412116013901

Land-surface altitude: 3,606 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

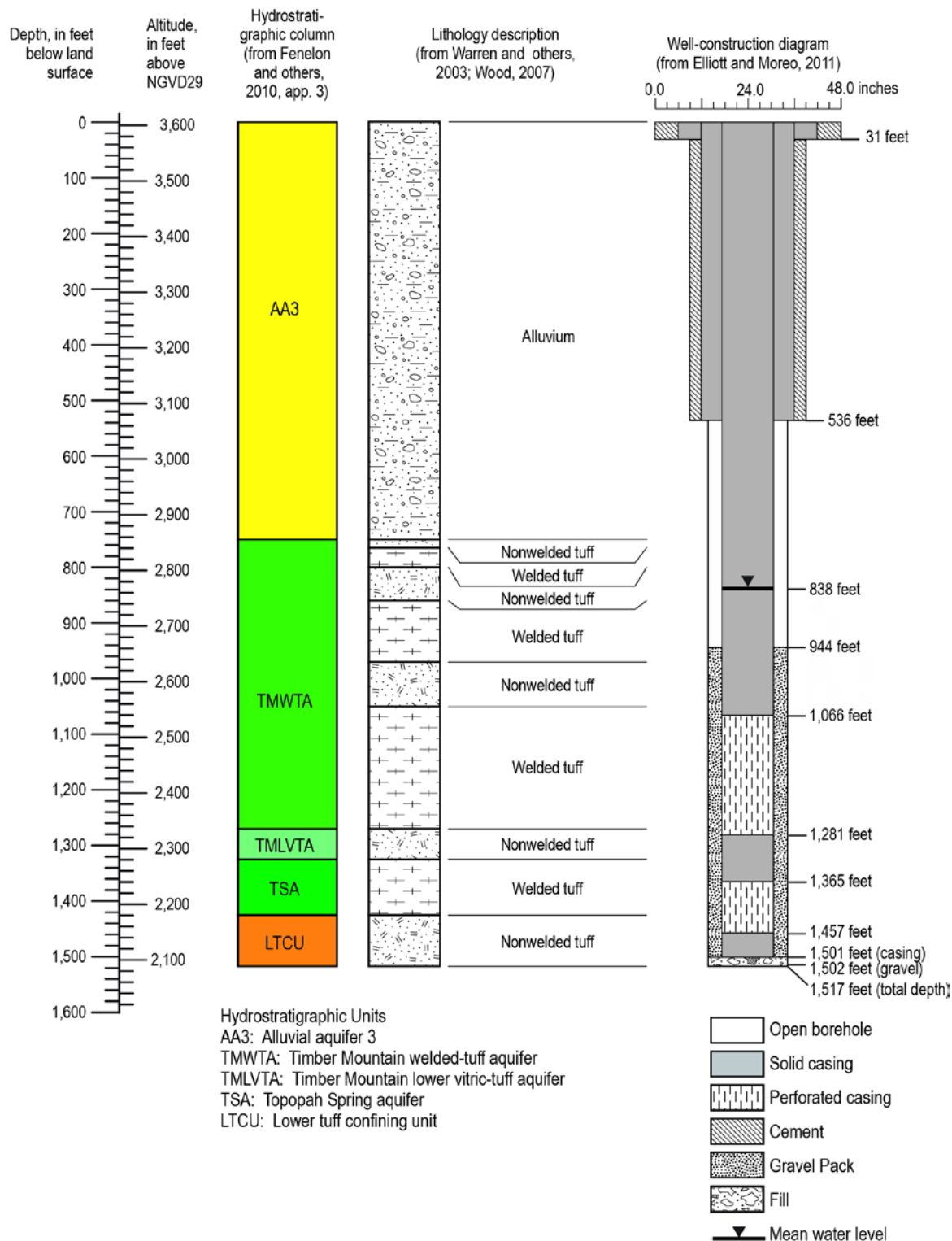


Figure E-34. Hydrostratigraphic units, lithology, and well construction for water-supply well WW-4A, Nevada National Security Site, Nye County, Nevada.

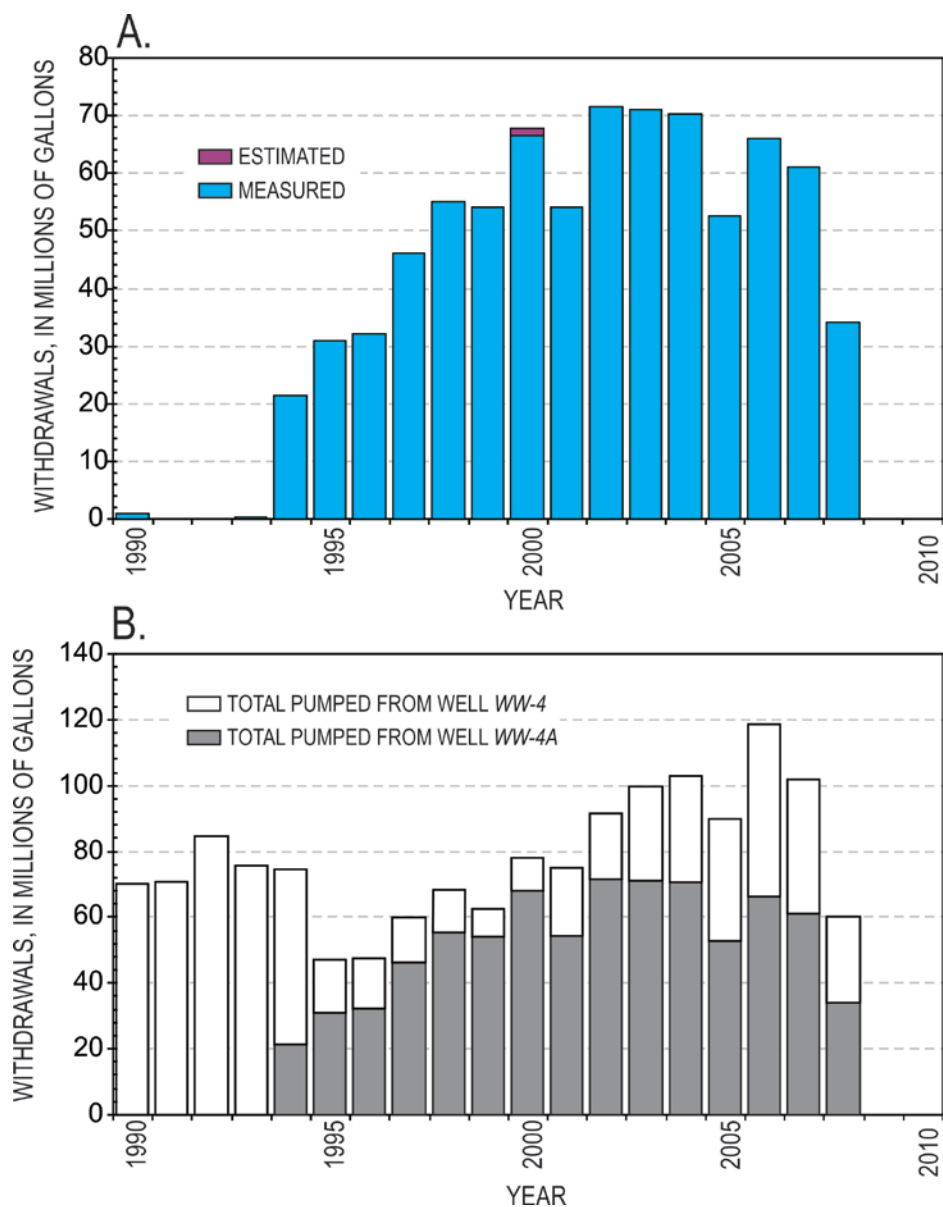


Figure E-35. Annual groundwater withdrawals for water-supply well WW-4A, Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

(A) Measured and estimated groundwater withdrawals from WW-4A; (B) Total groundwater withdrawals from WW-4 and WW-4A.

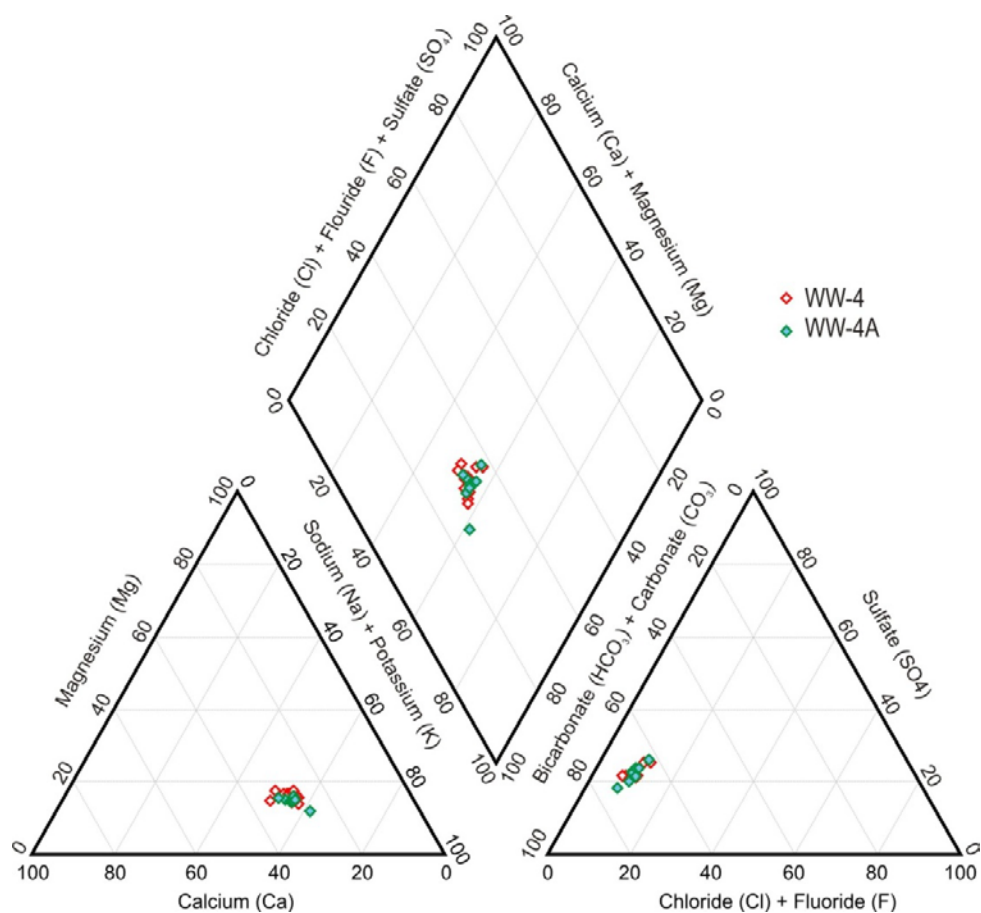


Figure E-36. Tri-linear plot of major ion concentrations for groundwater sampled from water-supply wells WW-4 and WW-4A, Nevada National Security Site, Nye County, Nevada.

Well name: *WW-5A*

USGS site identification: 364635115572901

Land-surface altitude: 3,093 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

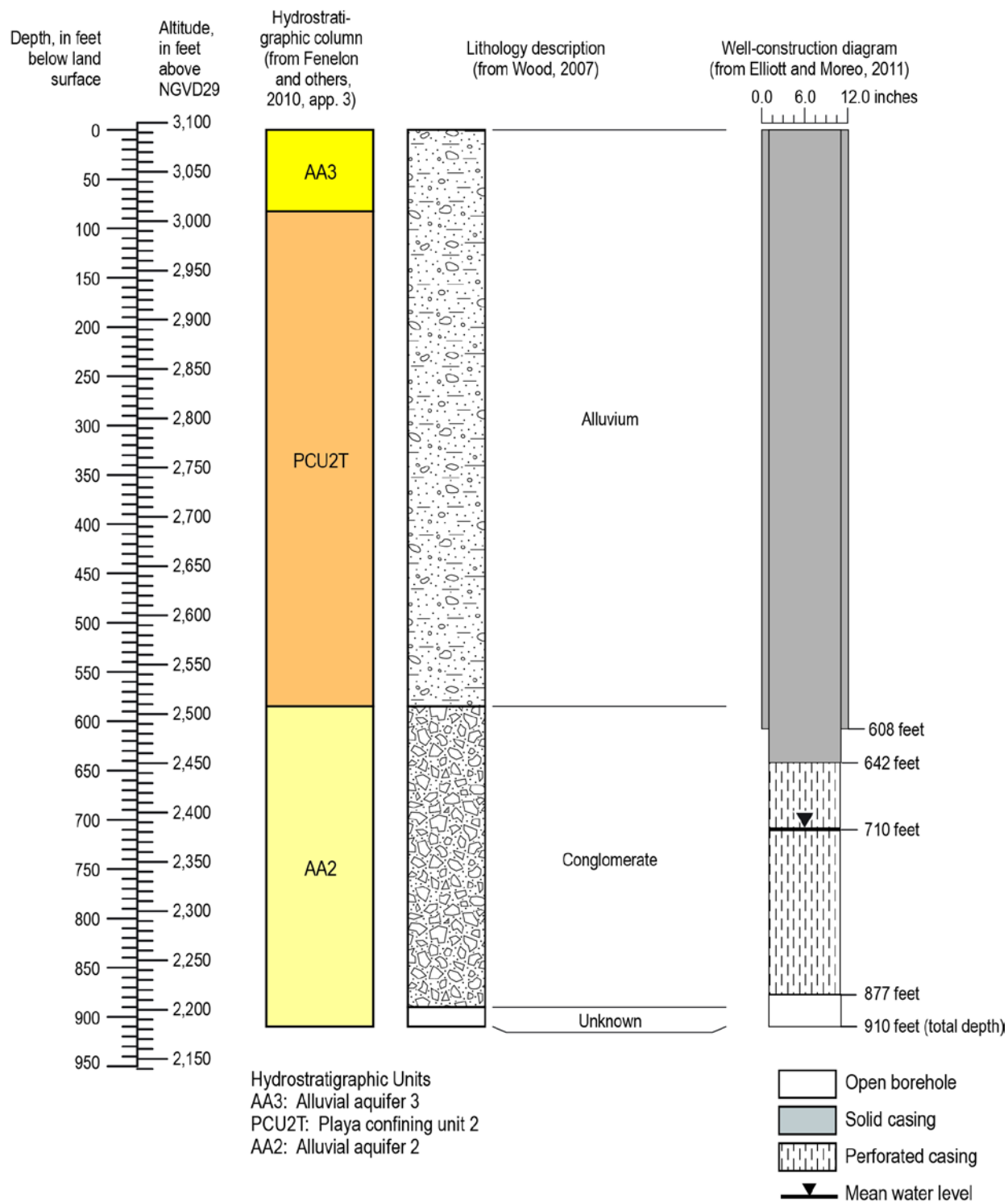


Figure E-37. Hydrostratigraphic units, lithology, and well construction for water-supply well WW-5A, Nevada National Security Site, Nye County, Nevada.

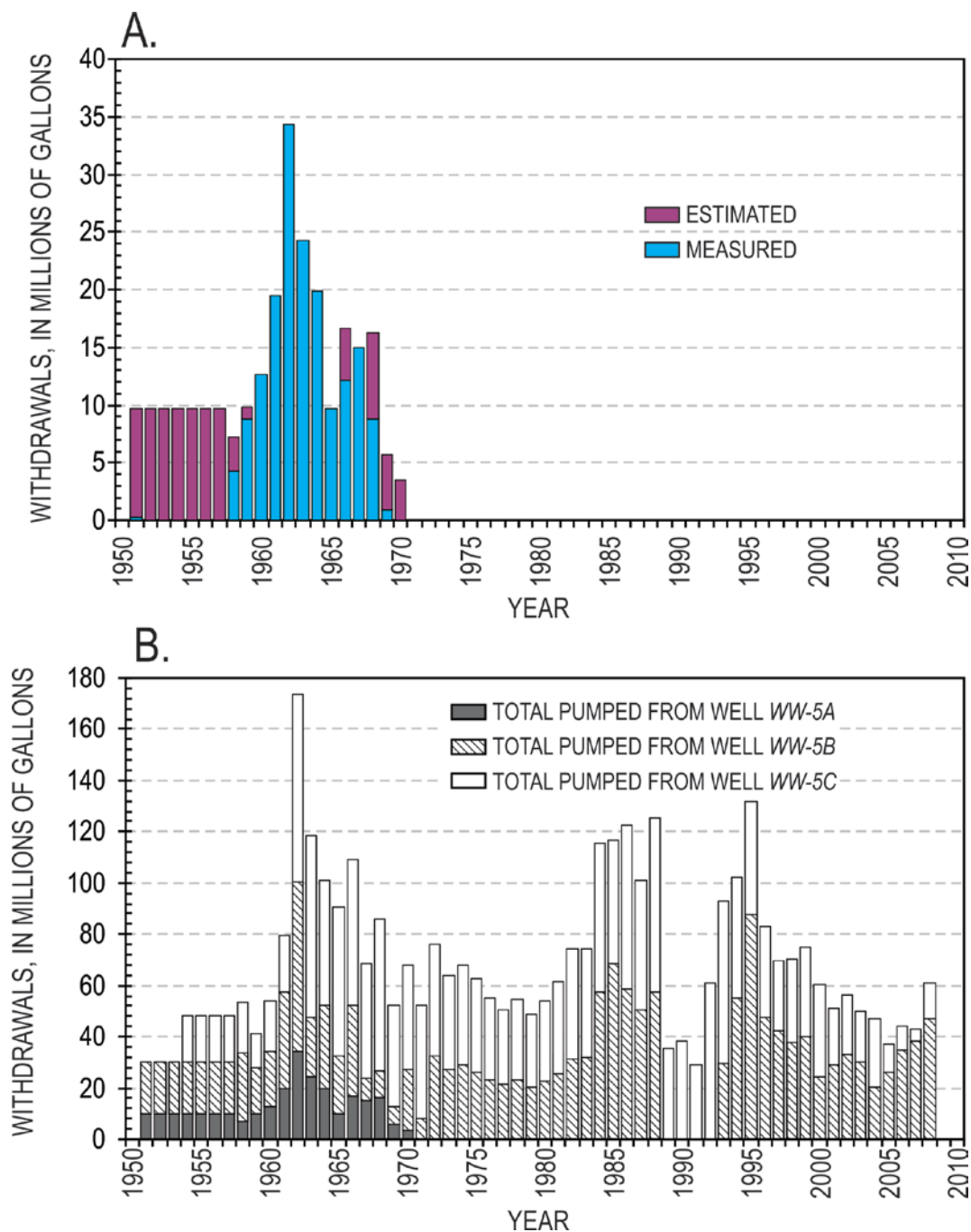


Figure E-38. Annual groundwater withdrawals for water-supply well WW-5A, Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

(A) Measured and estimated groundwater withdrawals from WW-5A; (B) Total groundwater withdrawals from WW-5A, WW-5B, and WW-5C.

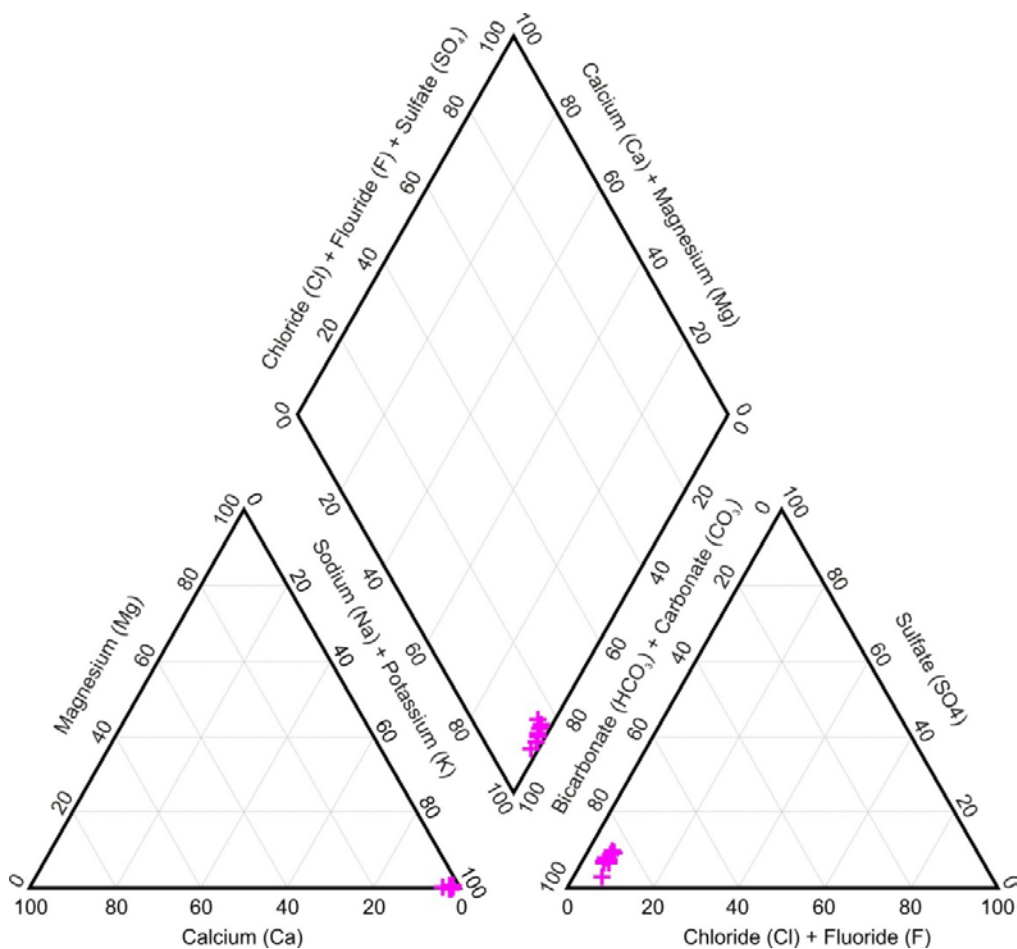


Figure E-39. Tri-linear plot of major ion concentrations for groundwater sampled from water-supply well WW-5A, Nevada National Security Site, Nye County, Nevada.

Well name: *WW-5B*

USGS site identification: 364805115580801

Land-surface altitude: 3,092 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

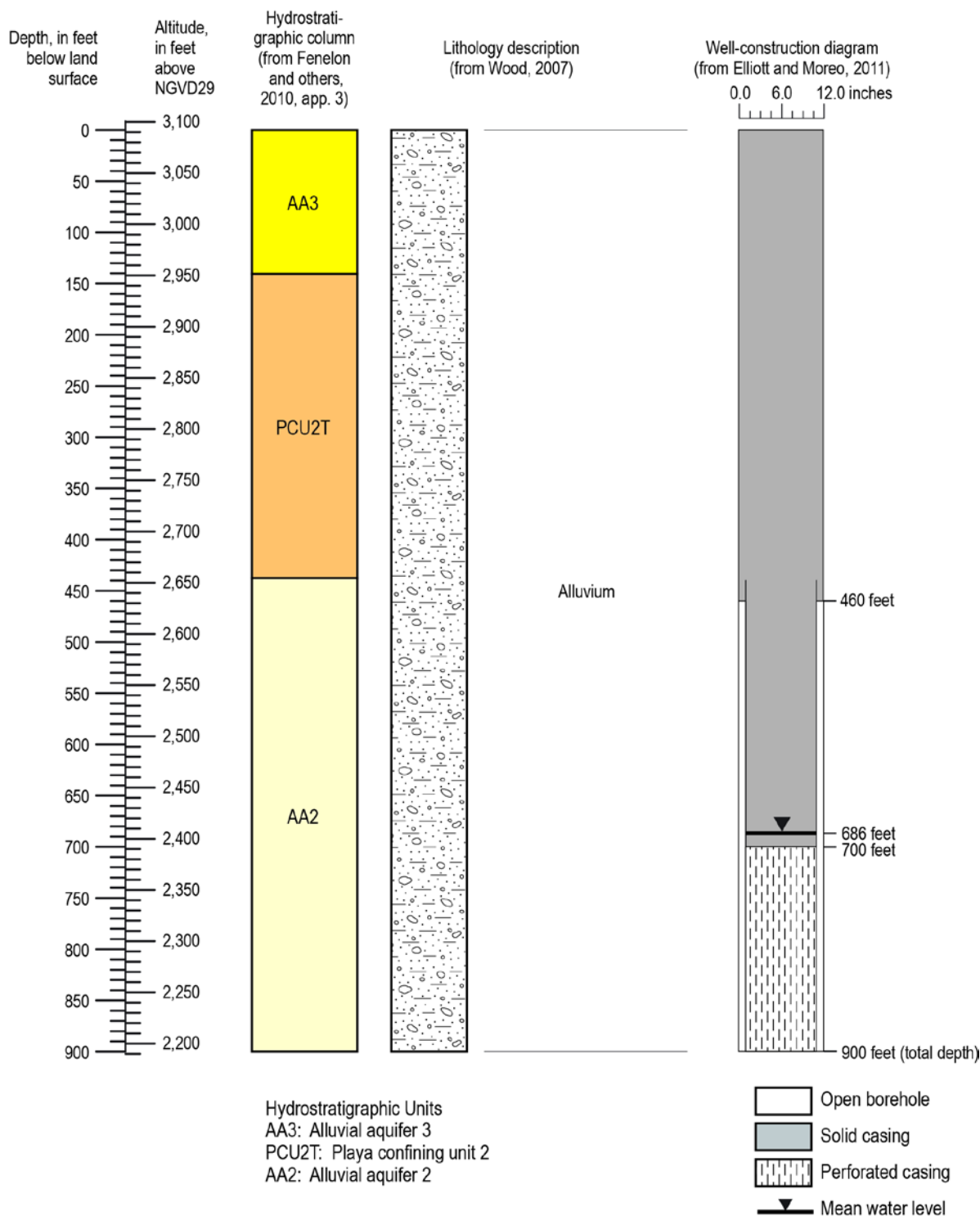


Figure E-40. Hydrostratigraphic units, lithology, and well construction water-supply well *WW-5B*, Nevada National Security Site, Nye County, Nevada.



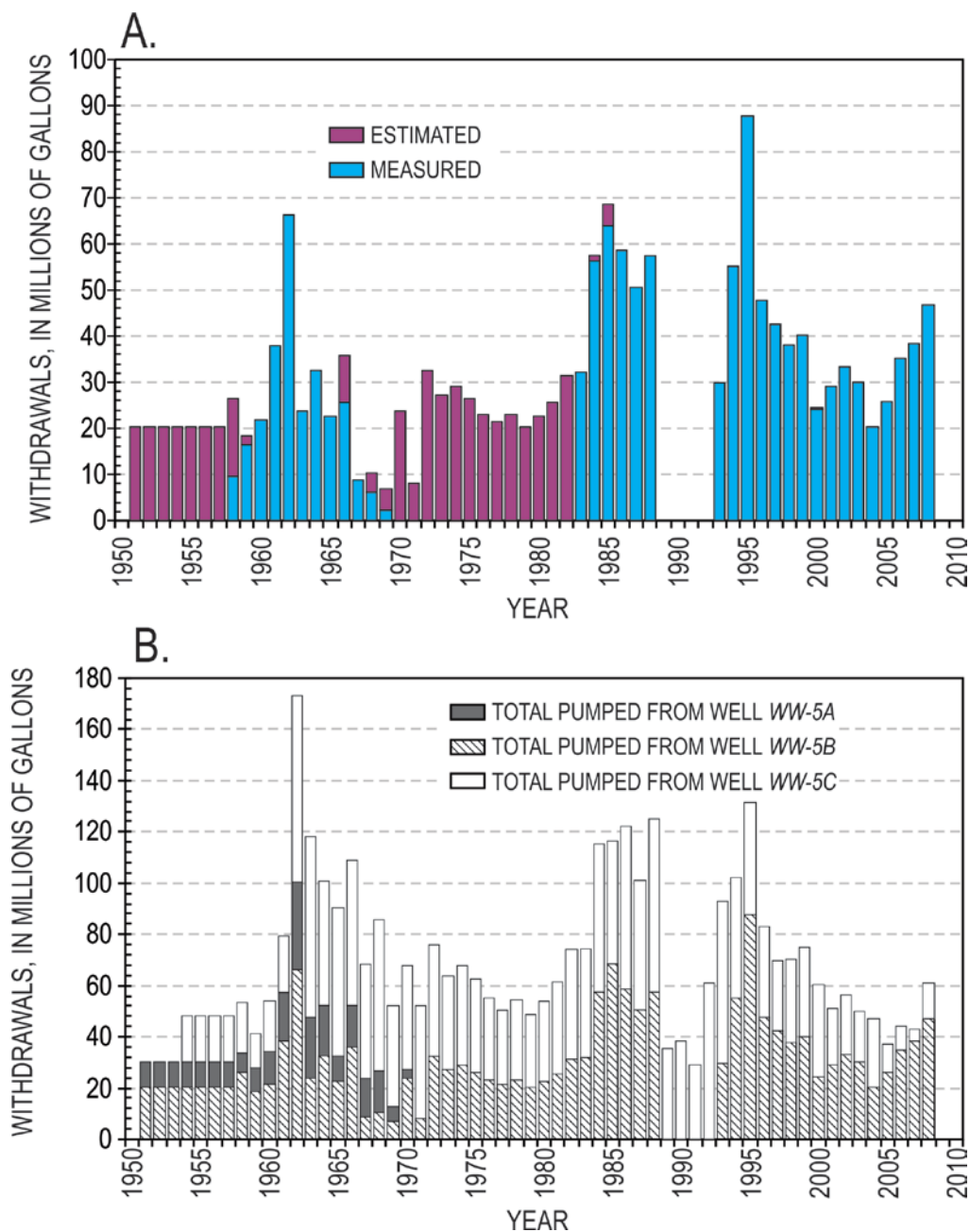


Figure E-41. Annual groundwater withdrawals for water-supply well WW-5B, Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

(A) Measured and estimated groundwater withdrawals from WW-5B; (B) Total groundwater withdrawals from WW-5A, WW-5B, and WW-5C.

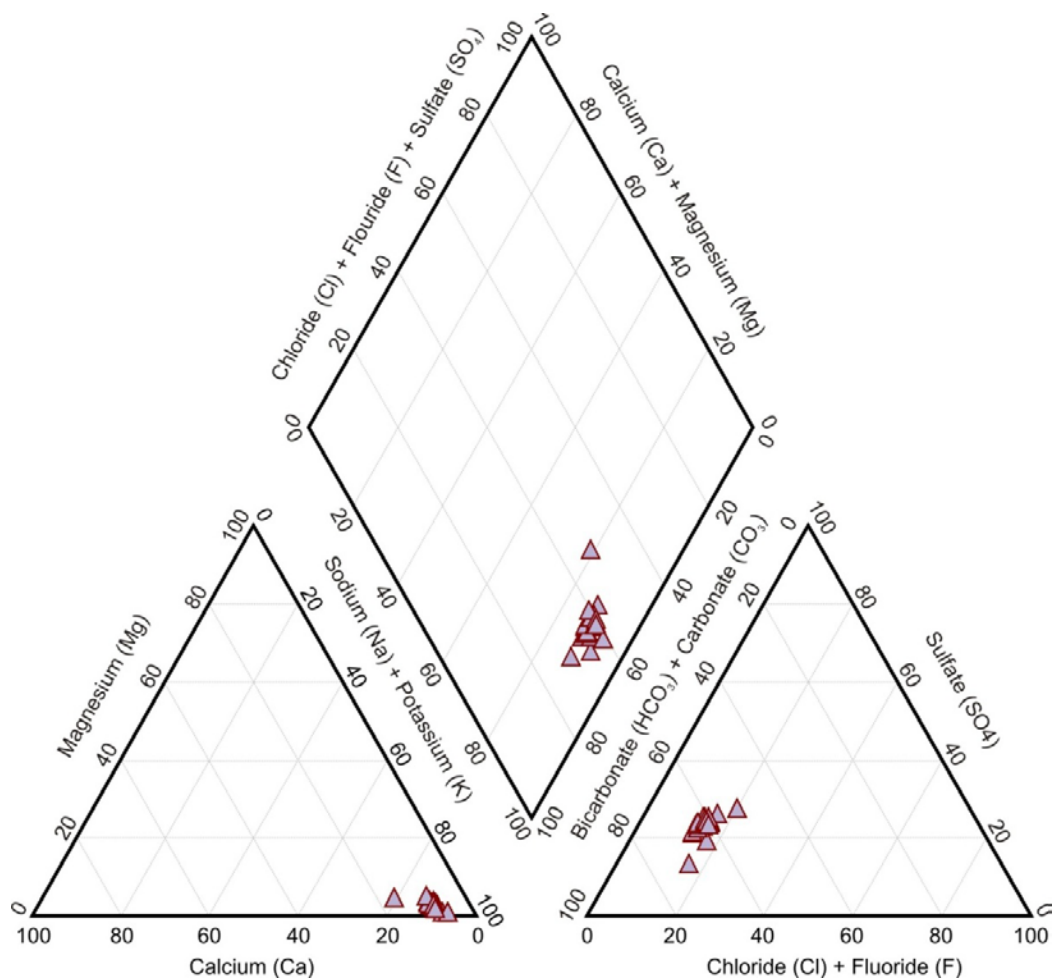


Figure E-42. Tri-linear plot of major ion concentrations for groundwater sampled from water-supply well WW-5B, Nevada National Security Site, Nye County, Nevada.

Well name: **WW-5C**

USGS site identification: 364708115574401

Land-surface altitude: 3,082 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

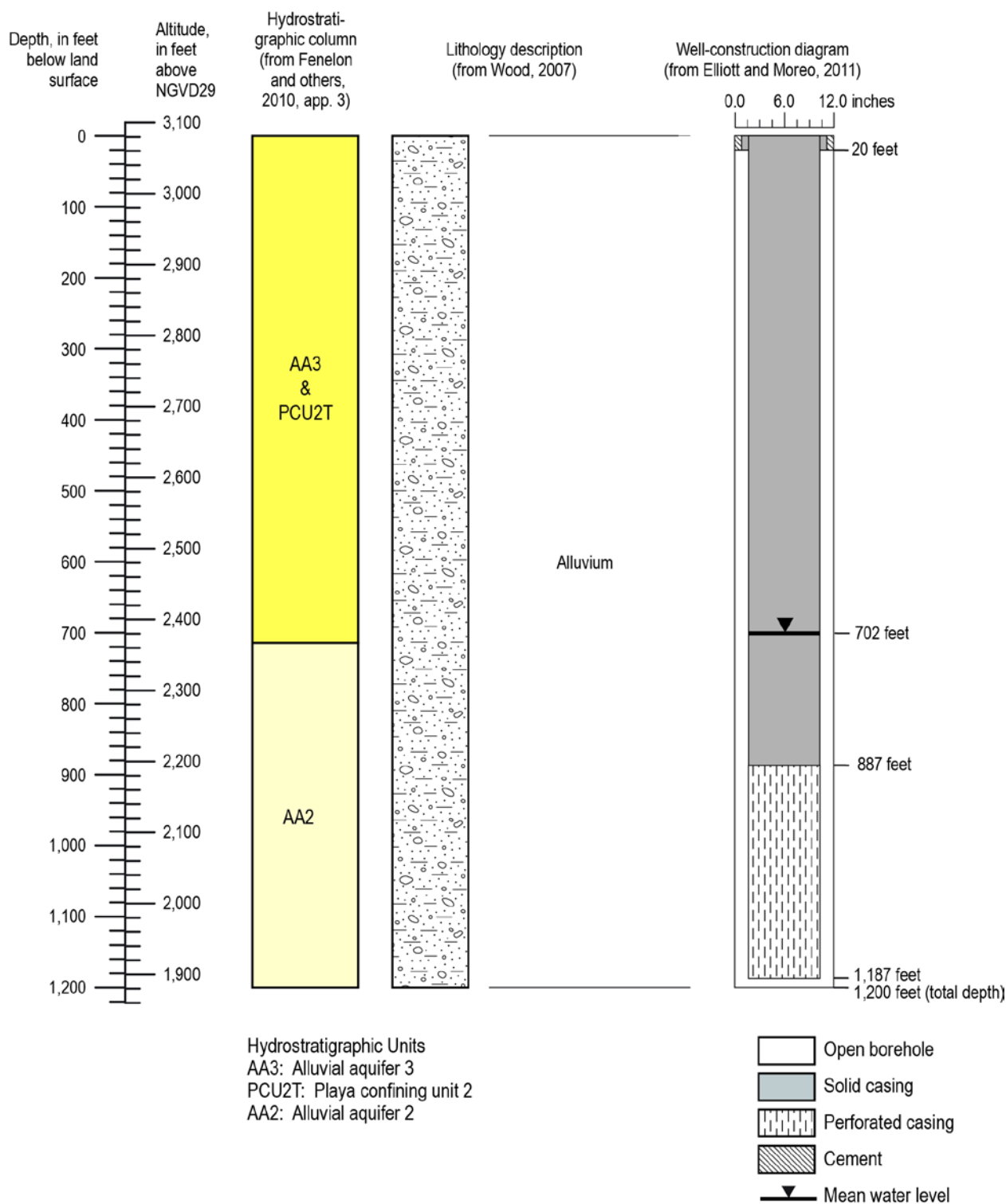


Figure E-43. Hydrostratigraphic units, lithology, and well construction for water-supply well WW-5C, Nevada National Security Site, Nye County, Nevada.

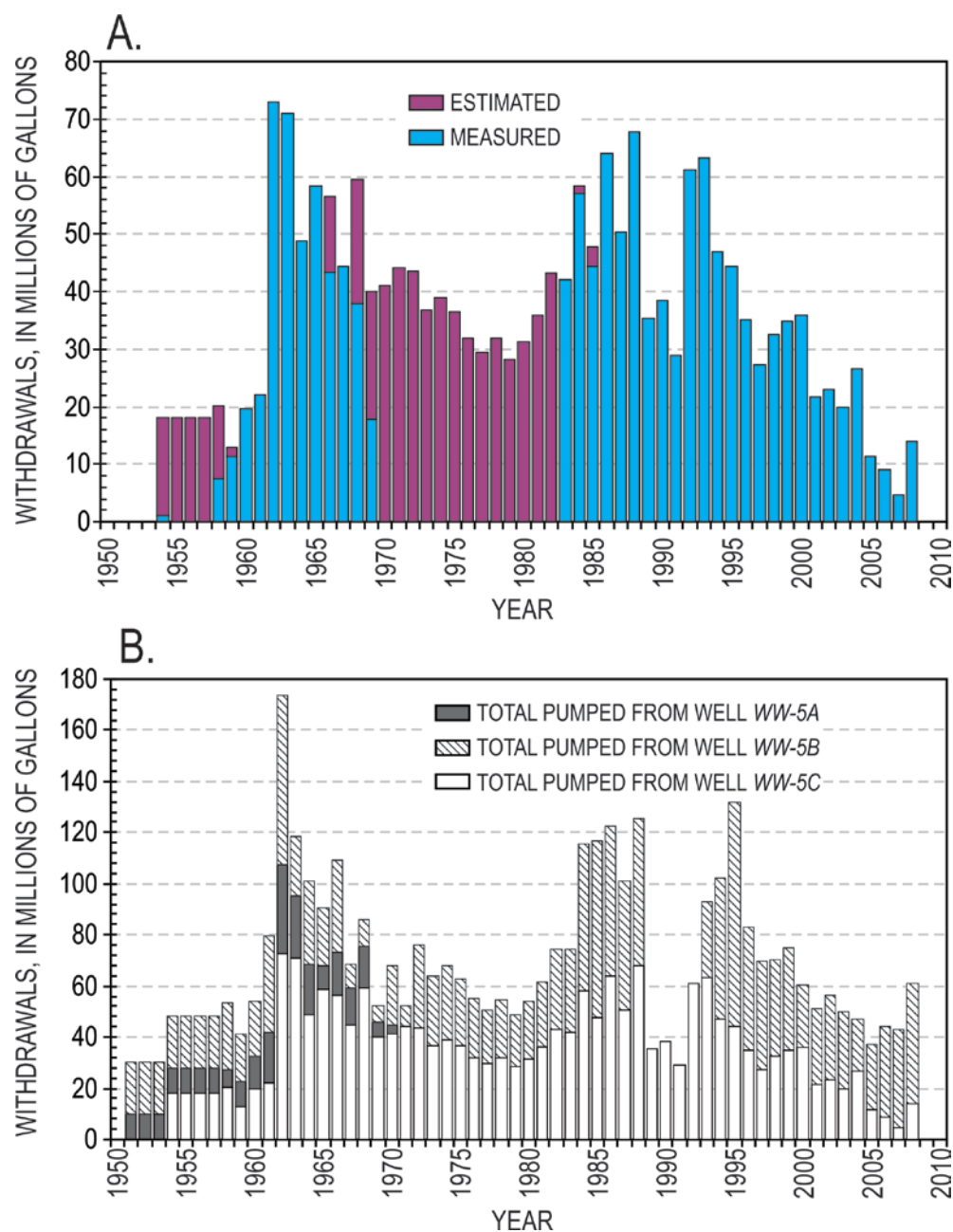


Figure E-44. Annual groundwater withdrawals for water-supply well WW-5C, Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

(A) Measured and estimated groundwater withdrawals from WW-5C; (B) Total groundwater withdrawals from WW-5A, WW-5B, and WW-5C.

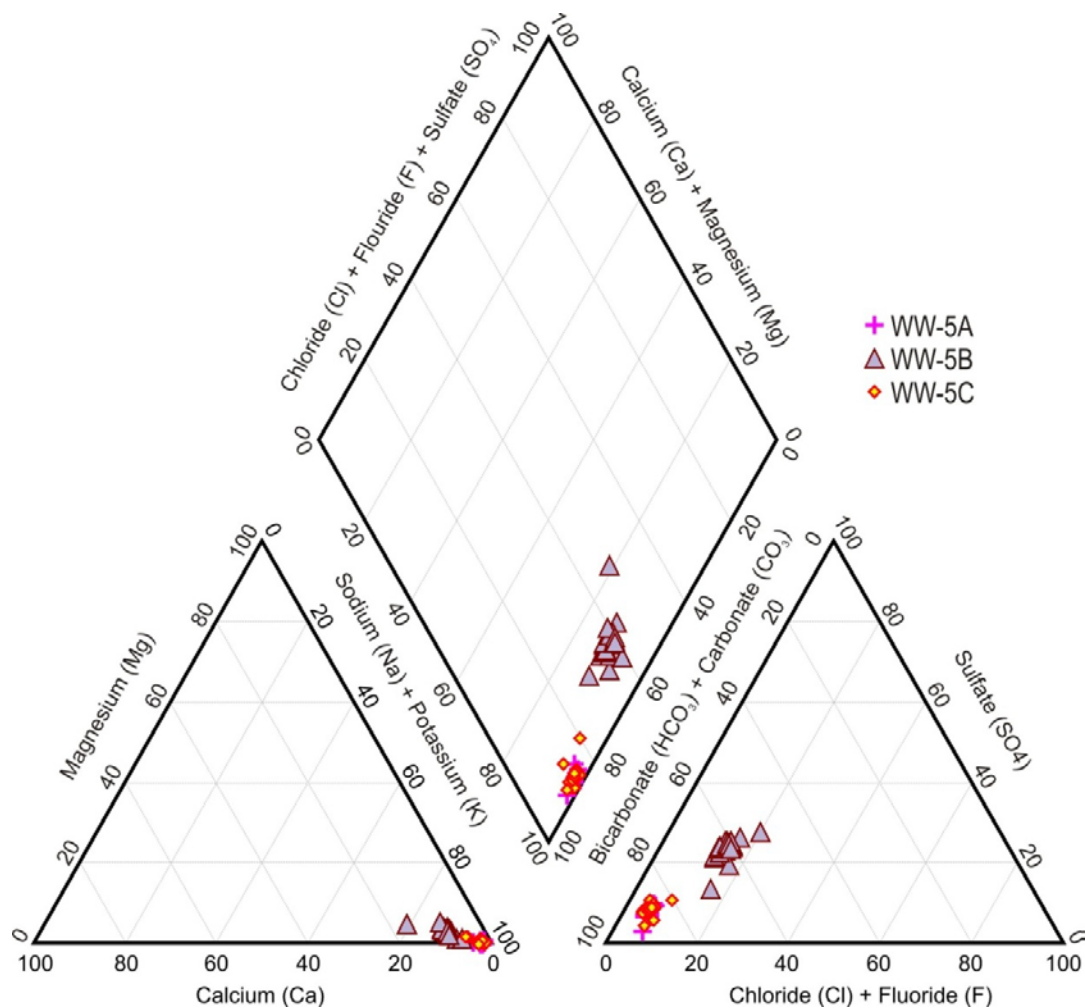


Figure E-45. Tri-linear plot of major ion concentrations for groundwater sampled from water-supply wells WW-5A, WW-5B, and WW-5C, Nevada National Security Site, Nye County, Nevada.

Well name: *WW-8 (30-2031 ft)*

USGS site identification: 370956116172101

Land-surface altitude: 5,695 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

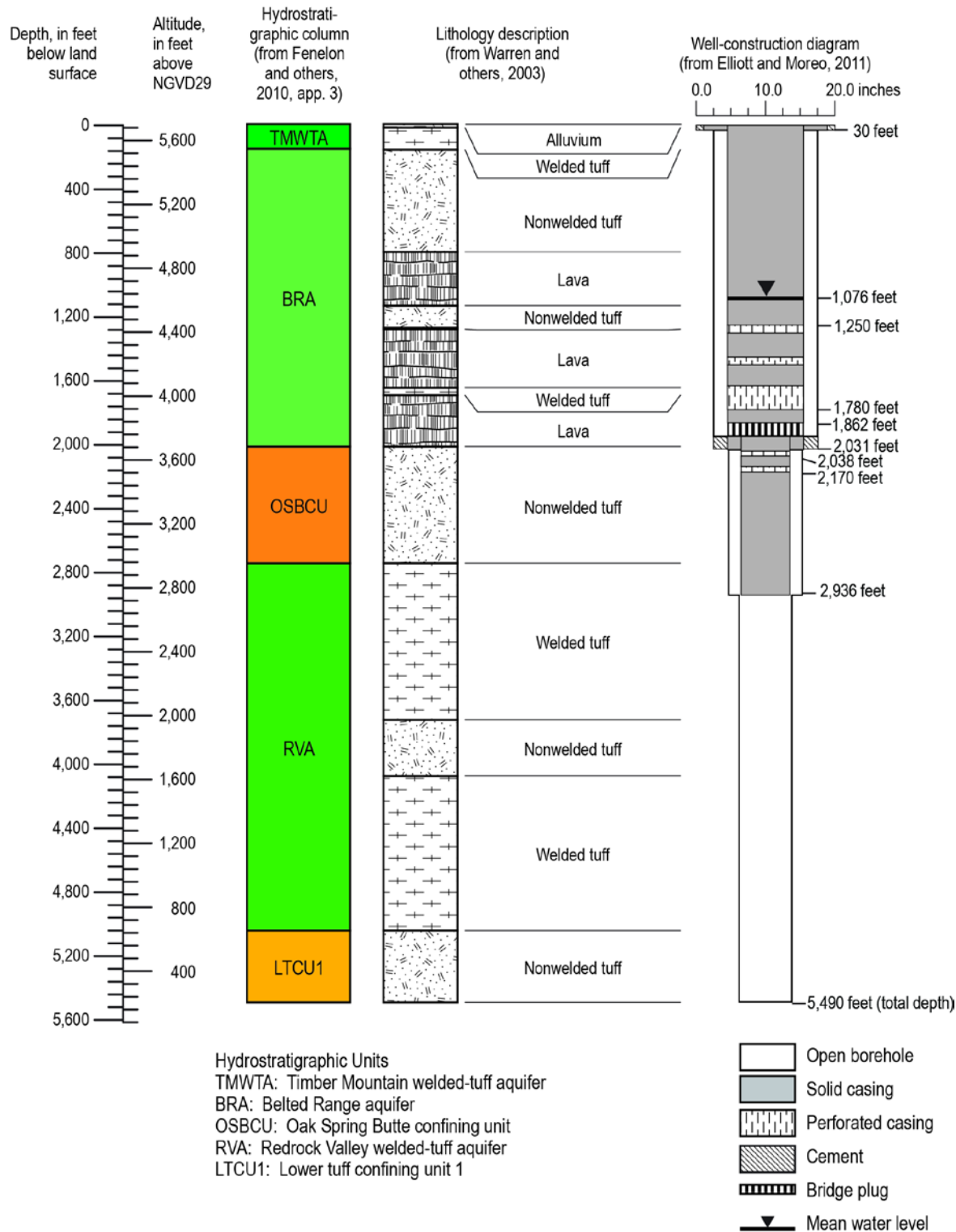


Figure E-46. Hydrostratigraphic units, lithology, and well construction for water-supply well *WW-8 (30-2031 ft)*, Nevada National Security Site, Nye County, Nevada.

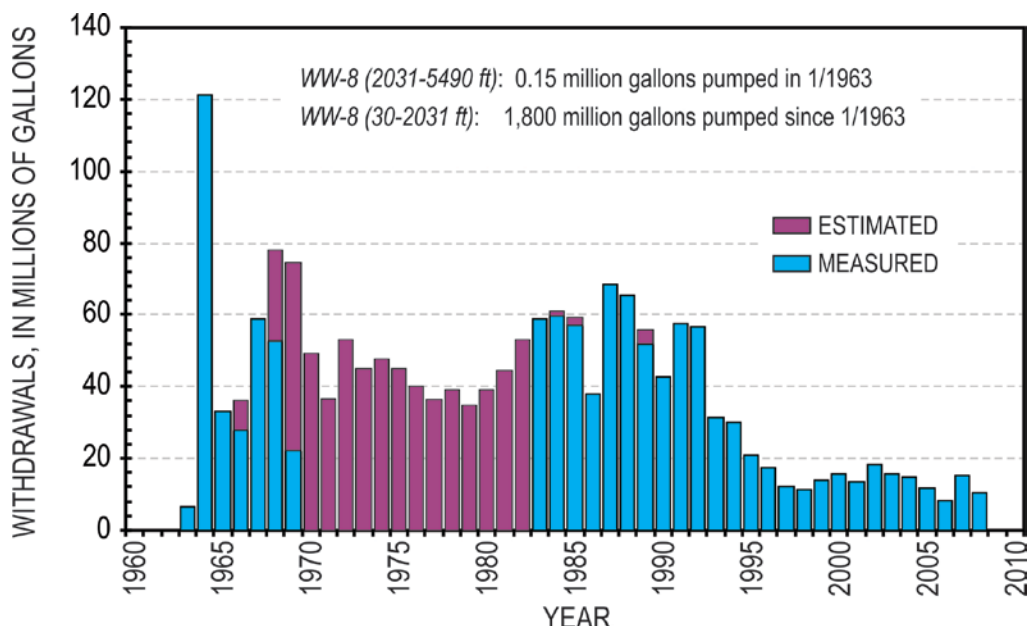


Figure E-47. Annual groundwater withdrawals for water-supply wells WW-8 (2031-5490 ft) and WW-8 (30-2031 ft), Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

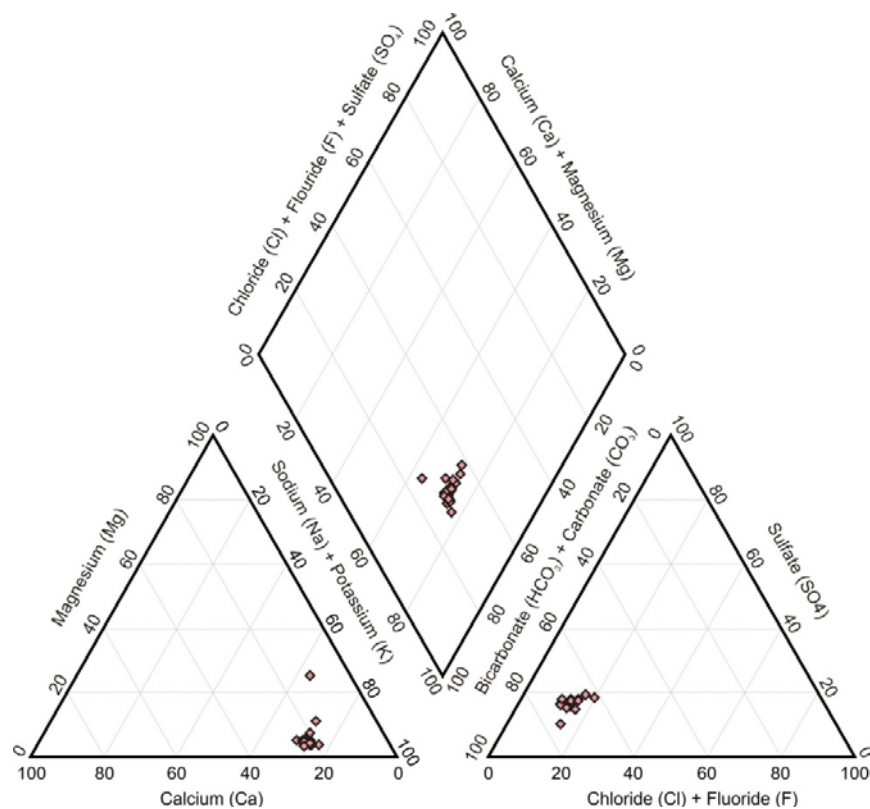


Figure E-48. Tri-linear plot of major ion concentrations for groundwater sampled from water-supply wells WW-8 (2031-5490 ft) and WW-8 (30-2031 ft), Nevada National Security Site, Nye County, Nevada.



Well name: *WW-A (1870 ft)*

USGS site identification: 370142116021101

Land-surface altitude: 4,006 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

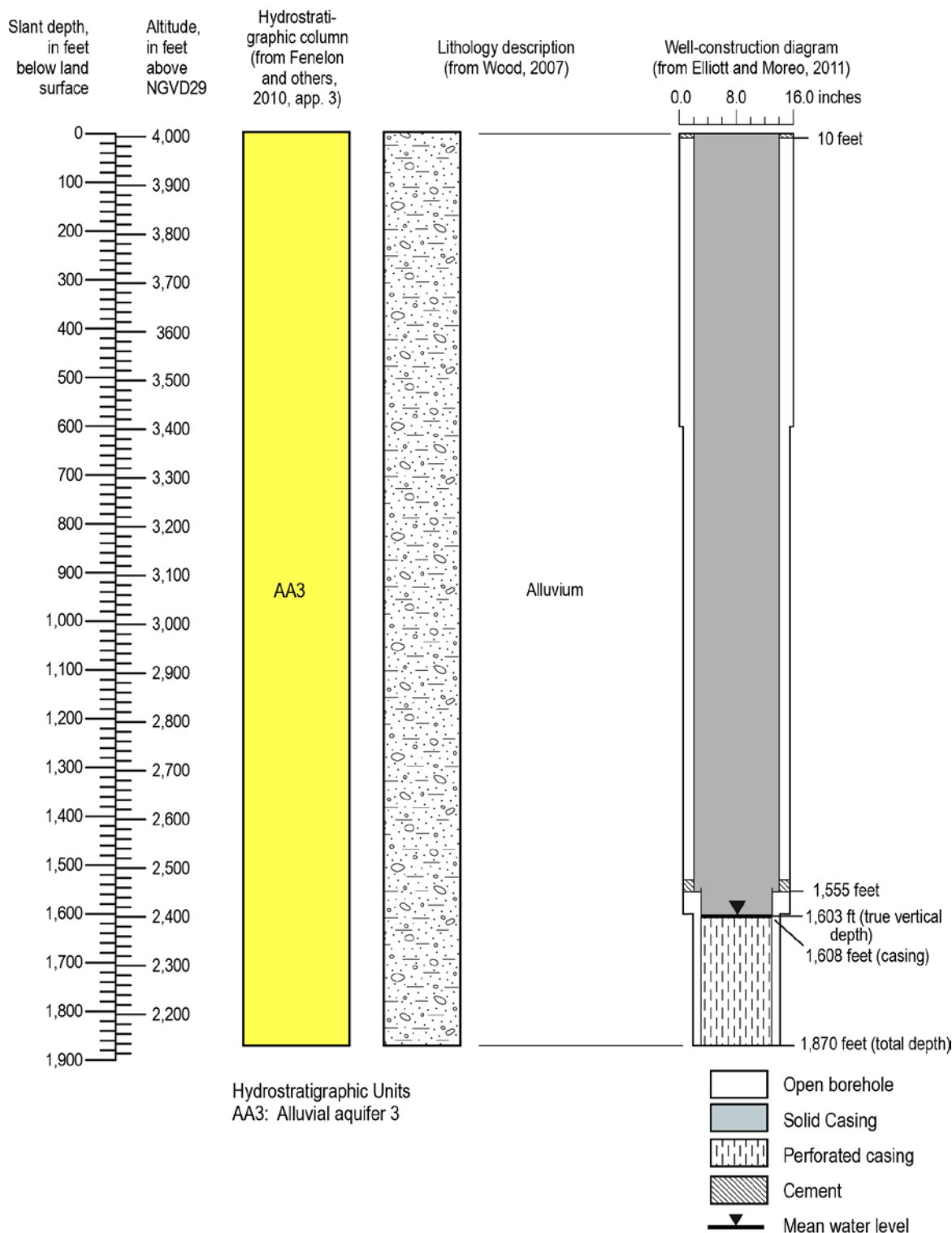


Figure E-49. Hydrostratigraphic units, lithology, and well construction for water-supply well *WW-A (1870 ft)*, Nevada National Security Site, Nye County, Nevada.

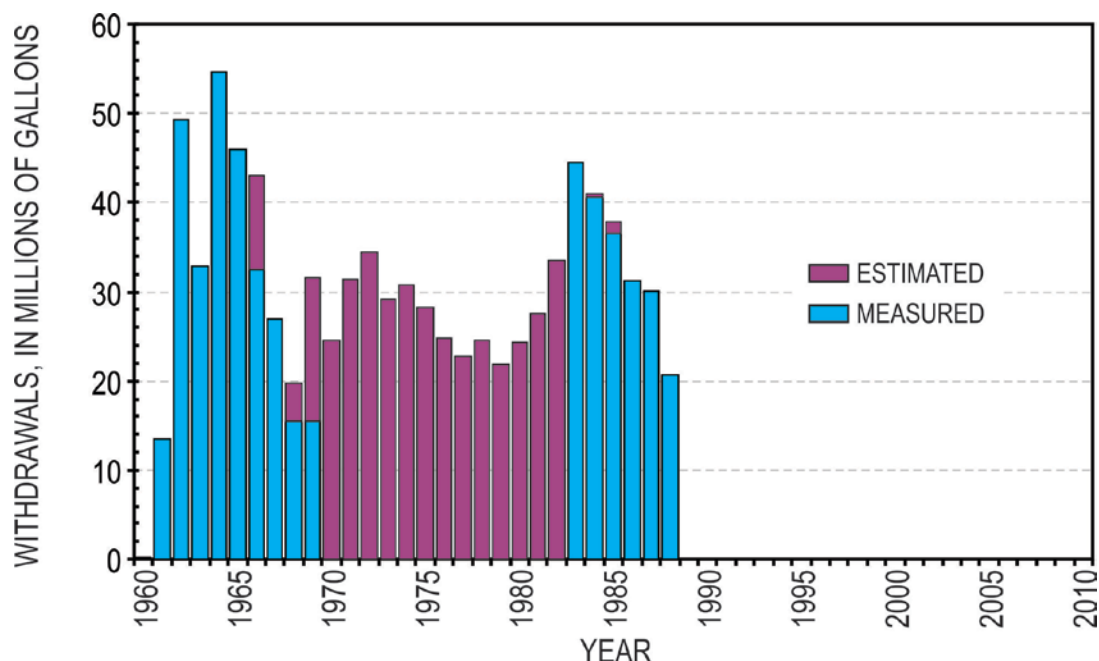


Figure E-50. Annual groundwater withdrawals for water-supply well WW-A (1870 ft), Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

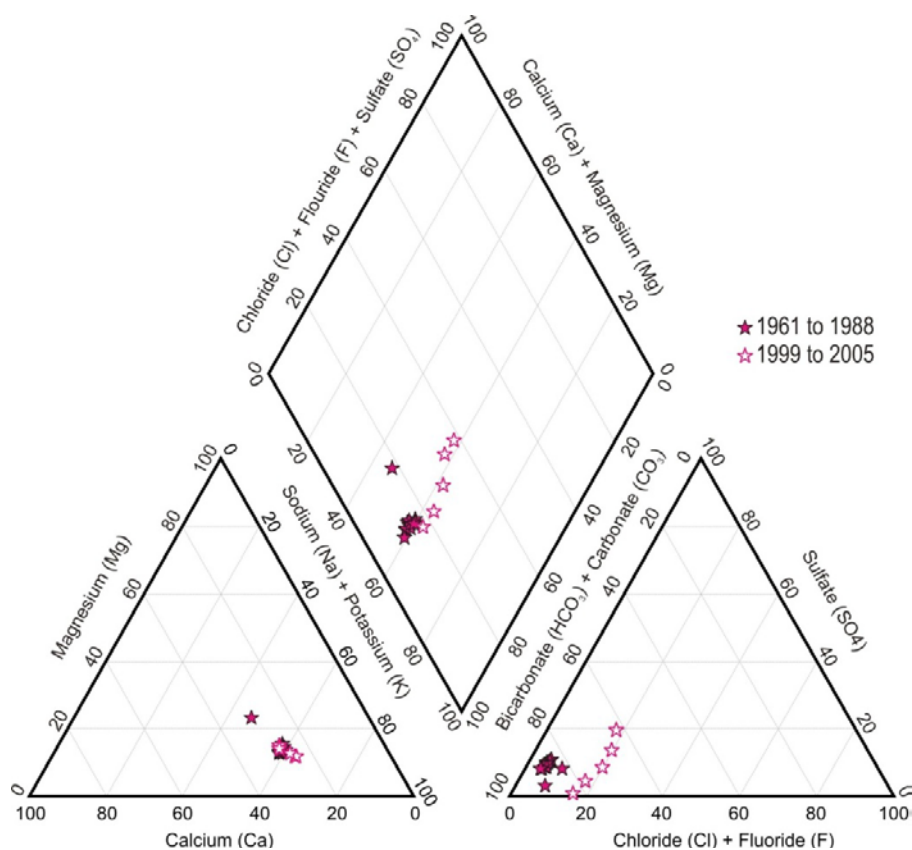


Figure E-51. Tri-linear plot of major ion concentrations for groundwater sampled from water-supply well WW-A (1870 ft), Nevada National Security Site, Nye County, Nevada.

Well name: *WW-C (recompleted)*

USGS site identification: 365508116003502

Land-surface altitude: 3,924 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

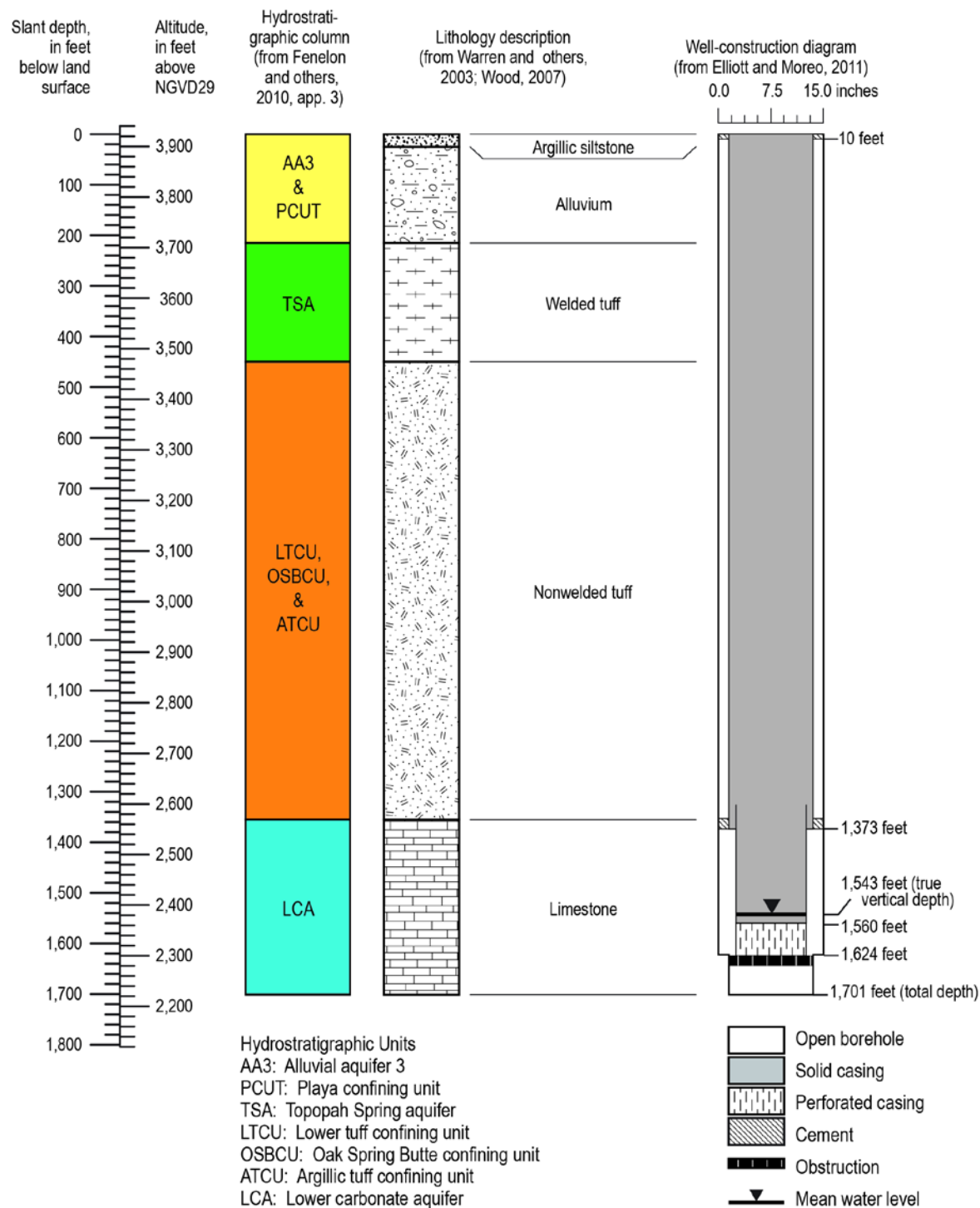


Figure E-52. Hydrostratigraphic units, lithology, and well construction for water-supply well *WW-C (recompleted)*, Nevada National Security Site, Nye County, Nevada.

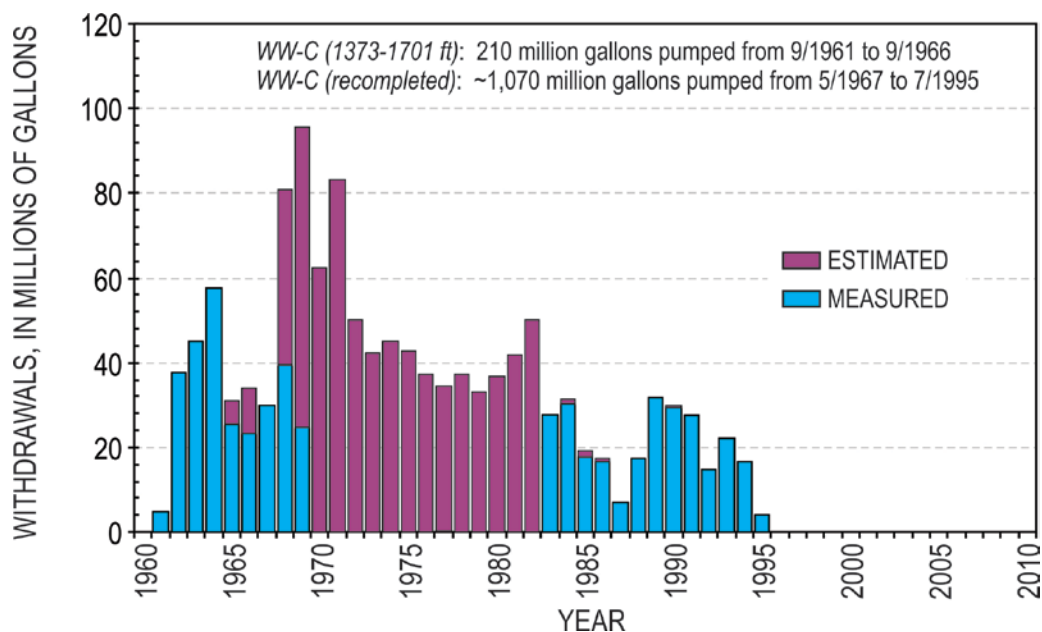


Figure E-53. Annual groundwater withdrawals for water-supply wells WW-C (1373-1701 ft) and WW-C (recompleted), Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

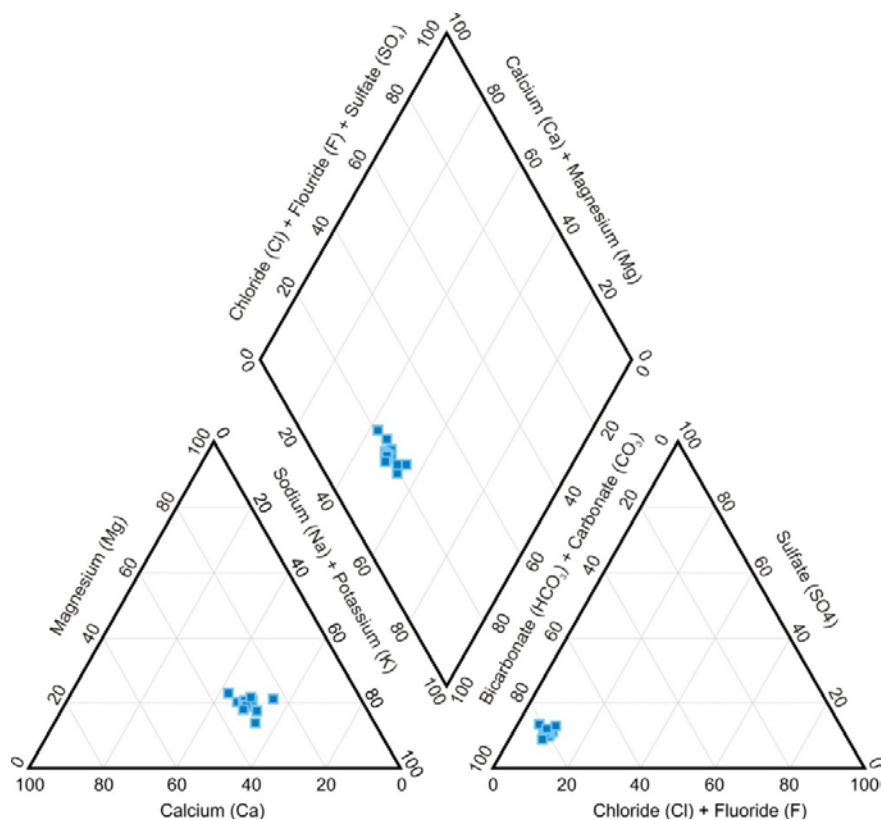


Figure E-54. Tri-linear plot of major ion concentrations for groundwater sampled from water-supply wells WW-C (1373-1701 ft) and WW-C (recompleted), Nevada National Security Site, Nye County, Nevada.

Well name: *WW-C-1*

USGS site identification: 365500116003901

Land-surface altitude: 3,924 feet above National Geodetic Vertical Datum of 1929 (NGVD29)

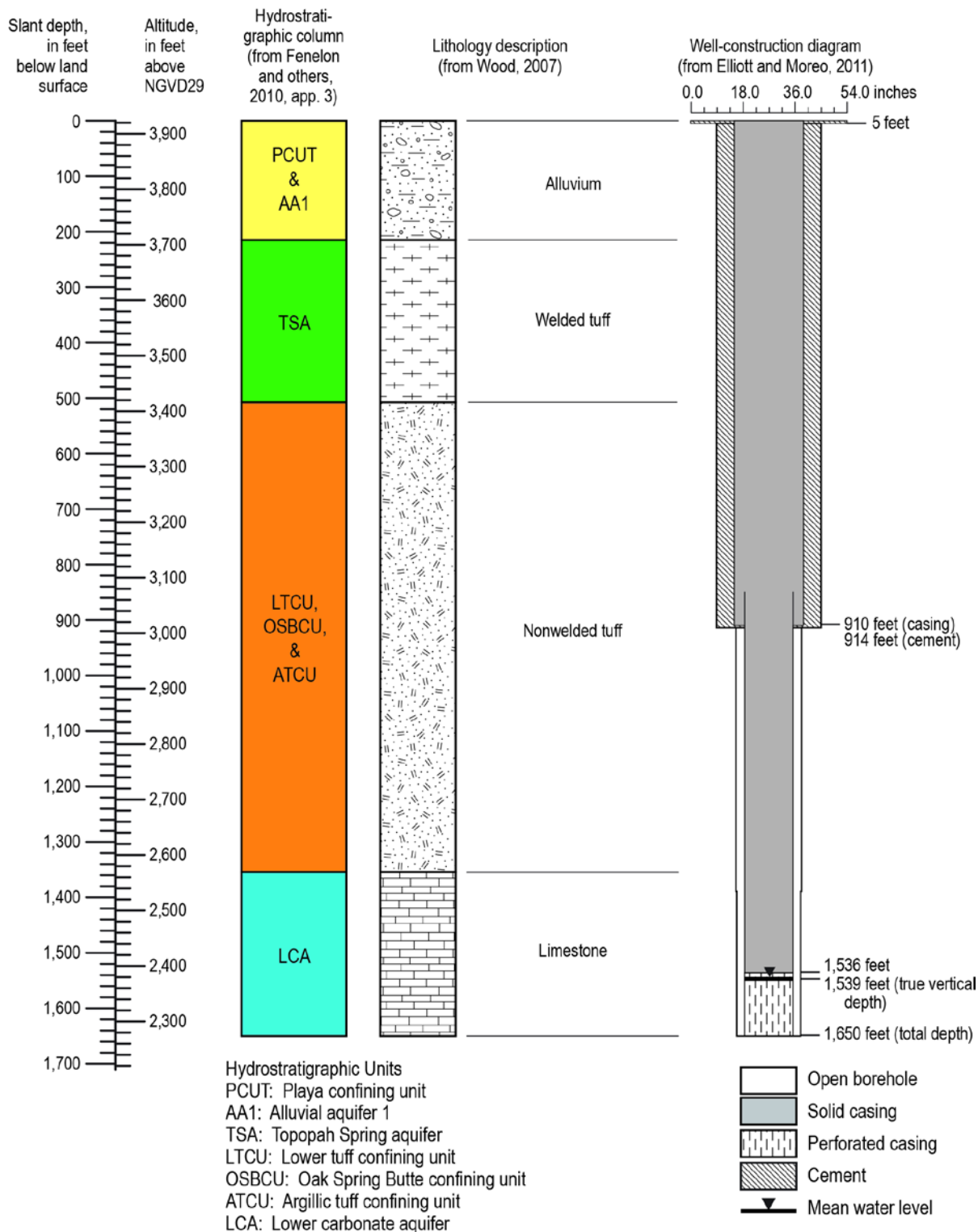


Figure E-55. Hydrostratigraphic units, lithology, and well construction for water-supply well *WW-C-1*, Nevada National Security Site, Nye County, Nevada.

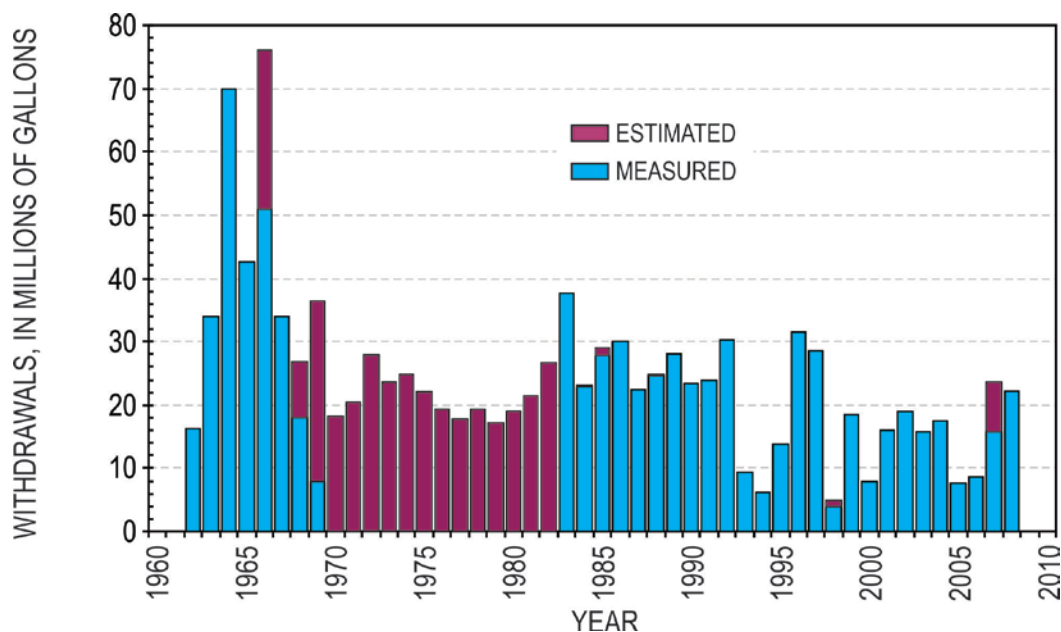


Figure E-56. Annual groundwater withdrawals for water-supply well WW-C-1, Nevada National Security Site, Nye County, Nevada (modified after Elliott and Moreo, 2011).

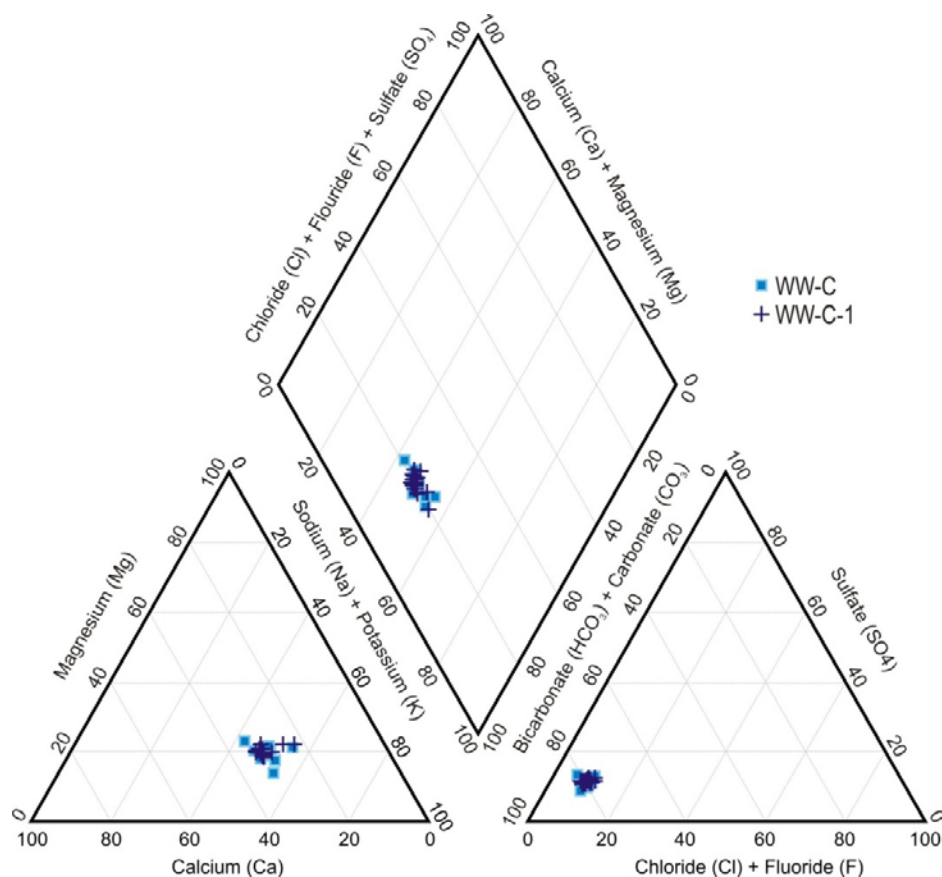


Figure E-57. Tri-linear plot of major ion concentrations for groundwater sampled from water-supply wells WW-C-1 and WW-C, Nevada National Security Site, Nye County, Nevada.