

FIELD DATA SPREADSHEET TABLES

This digital appendix contains four Excel spreadsheet tables with results of chemical and isotopic analysis of field samples collected during this study.

LOCATION - SPREADSHEET 1

This spreadsheet contains location and other information on wells and sites sampled for chemistry and isotope analysis during this investigation. Important column headings are:

SITE ID	Field sample number
SEO NUMBER	State Engineer Office well number
TWN	Township (see Figure 2.2 of report)
RNG	Range (see Figure 2.2 of report)
SEC	Section (see Figure 2.2 of report)
QTR	Quarter Section (see Figure 2.2 of report)
LONG	Degrees Longitude
LAT	Degrees Latitude
ELEV	Elevation of site surface (ft above sea mean level)
DEPTH	Well depth (ft)
PROD INT	Producing or screened interval (ft)
TEMP	Field temperature °F and °C
pH	Field pH
HCO₃	Field Alkalinity as bicarbonate (mg/L)
TDS	Laboratory Total Dissolved Solids (mg/L)
COND	Field conductivity microsiemens (μS)

MAJOR - SPREADSHEET 2

This spreadsheet contains major cation and anion analyses (mg/L) along with supplemental information for wells and sites sampled for chemistry and isotope analysis during this Mesilla Basin salinity investigation. Important column headings are:

SITE ID	Field sample number
TDS	Laboratory Total Dissolved Solids (mg/L)
TDS ion à	Summation of cations and anion (mg/L)
COND	Field conductivity microsiemens (μS)

Na, K, Ca, Mg, Li, Rb, Sr, HCO₃, SO₄, Cl, F, Br, B, Fe, NO₃, SiO₂

TRACE - SPREADSHEET 3

This spreadsheet contains trace metal and minor element analyses as µg/L for wells and sites sampled for chemistry and isotope analysis during this investigation. The minus symbol in tabulated results indicates that a minor or trace metal was below the specified absolute value shown or detection limit of analysis.

Ag, Al, As, Au, Ba, Be, Bi, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Lu, Mn, Mo, Nb, Nd, Ni, Os, Pb, Pd, Pr, Pt, Re, Ru, Sb, Sc, Se, Sm, Sn, Ta, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr

ISOTOPES - SPREADSHEET 4

This spreadsheet contains isotopic analyses as µg/L for wells and sites sampled for chemistry and isotope analysis during this investigation. Nomenclature used to report isotopic analytical results is detailed in **Appendix 2A (Isotope Nomenclature and Analytical Labs)**. Important column headings are:

$d^{13}C$, dD , $d^{18}O$, $d^{34}S$, $^{87}Sr/^{86}Sr$, $^{88}Sr/^{84}Sr$, ^{234}U , ^{235}U , ^{238}U , $^{234}U/^{238}U$