The $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of Tap Water from 349 Sites in the United States and Selected Territories

Data Series 703

The $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of Tap Water from 349 Sites in the United States and Selected Territories

By Tyler B. Coplen, Jurate M. Landwehr, Haiping Qi, and Jennifer M. Lorenz

Data Series 703

U.S. Department of the Interior
U.S. Geological Survey

U.S. Department of the Interior
SALLY JEWELL, Secretary

U.S. Geological Survey
Suzette M. Kimball, Director

U.S. Geological Survey, Reston, Virginia: 2013

For more information on the USGS—the Federal source for science about the Earth, its natural and living resources, natural hazards, and the environment, visit <http://www.usgs.gov> or call 1–888–ASK–USGS.

For an overview of USGS information products, including maps, imagery, and publications, visit <http://www.usgs.gov/pubprod>

To order this and other USGS information products, visit <http://store.usgs.gov>

Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Although this information product, for the most part, is in the public domain, it also may contain copyrighted materials as noted in the text. Permission to reproduce copyrighted items must be secured from the copyright owner.

Suggested citation:

Coplen, T.B., Landwehr, J.M., Qi, Haiping, and Lorenz, J.M., 2013, The $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of tap water from 349 sites in the United States and selected territories: U.S. Geological Survey Data Series 703, 113 p., <http://pubs.usgs.gov/ds/703>.

Contents

Abstract.....	1
Introduction.....	1
Methods.....	2
Tap Water $\delta^2\text{H}$ and $\delta^{18}\text{O}$ Measurement Results.....	2
Analysis of Uncertainty.....	2
Summary.....	3
References Cited.....	5
Appendix A. Site Location Information for Tap Water Samples	7
Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time	17
Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses.....	37
Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses.....	57
Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis.....	75
Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis.....	95

Figures

1. Comparison of $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ standard deviations calculated from two or more $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ measurements of tap water samples (typically on different days) with the VG Micromass dual-inlet isotope-ratio mass spectrometer (DI-IRMS) and the Los Gatos Research (LGR) isotope analyzer.....3
2. Comparison of $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ standard deviations calculated from two or more $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ measurements of tap water samples (typically on different days) with the DuPont dual-inlet isotope-ratio mass spectrometer (DI-IRMS) and the Los Gatos Research (LGR) Isotope Water Analyzer.....4

Conversion Factors

Multiply	By	To obtain
	Length	
meter (m)	3.281	foot (ft)
	Volume	
milliliter (mL)	0.06102	cubic inch (in ³)

Acronyms and Abbreviations

CO ₂ -H ₂ O	carbon dioxide-water
DI-IRMS	dual-inlet isotope-ratio mass spectrometer
H ₂ -H ₂ O	gaseous hydrogen-water
LGR	Los Gatos Research
LIMS	Laboratory Information Management System for Light Stable Isotopes
NASQAN	National Stream Quality Accounting Network
RSIL	Reston Stable Isotope Laboratory
SLAP	Standard Light Antarctic Precipitation
VSMOW	Vienna Standard Mean Ocean Water

Symbols

‰	per mil, one part in one thousand parts, with value 10 ⁻³
μ _c	combined uncertainty

The $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of Tap Water from 349 Sites in the United States and Selected Territories

By Tyler B. Coplen, Jurate M. Landwehr, Haiping Qi, and Jennifer M. Lorenz

Abstract

Because the stable isotopic compositions of hydrogen ($\delta^2\text{H}$) and oxygen ($\delta^{18}\text{O}$) of animal (including human) tissues, such as hair, nail, and urine, reflect the $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of water and food ingested by an animal or a human and because the $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of environmental waters vary geographically, $\delta^2\text{H}$ and $\delta^{18}\text{O}$ values of tap water samples collected in 2007–2008 from 349 sites in the United States and three selected U.S. territories have been measured in support of forensic science applications, creating one of the largest databases of tap water $\delta^2\text{H}$ and $\delta^{18}\text{O}$ values to date. The results of replicate isotopic measurements for these tap water samples confirm that the expanded uncertainties ($U = 2\mu_c$) obtained over a period of years by the Reston Stable Isotope Laboratory from $\delta^2\text{H}$ and $\delta^{18}\text{O}$ dual-inlet mass spectrometric measurements are conservative, at $\pm 2\text{‰}$ and $\pm 0.2\text{‰}$, respectively. These uncertainties are important because U.S. Geological Survey data may be needed for forensic science applications, including providing evidence in court cases.

Half way through the investigation (December 2007), an isotope-laser spectrometer was acquired, enabling comparison of dual-inlet isotope-ratio mass spectrometric results with isotope-laser spectrometric results. The uncertainty of the laser-based $\delta^2\text{H}$ measurement results for these tap water samples is comparable to the uncertainty of the dual-inlet isotope-ratio mass spectrometer, with the laser-based instrument measurements having a slightly lower uncertainty. However, the $\delta^{18}\text{O}$ uncertainty of this laser-based instrument is about a factor of ten higher than that of the dual-inlet isotope-ratio mass spectrometer.

Introduction

The stable isotopic compositions of hydrogen ($\delta^2\text{H}$) and oxygen ($\delta^{18}\text{O}$) of animal (including human) tissues, such as hair, nail, and urine, reflect the $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of water and food ingested by an animal or a human. The $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of environmental waters vary geographically and seasonally, by altitude and latitude, and in response to chemical and physical

processes, such as precipitation, condensation, evaporation, and transpiration (Dansgaard, 1964; Rozanski and others, 1993). Consequently, variations in the $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of animal tissues have been used to infer wildlife migration patterns and the provenance of human remains (Schoeller and others, 1986; Hobson and others, 1999; Sharp and others, 2003; O'Brien and Wooller, 2007; Ehrlinger and others, 2008; Wassenaar, 2008; Meier-Augenstein, 2010).

In technologically unaltered ecosystems, drinking water consists of locally available environmental waters, primarily from surface waters, such as streams, ponds, lakes, seeps, springs, or even ephemeral pools of recently precipitated waters. However, in most human ecosystems, drinking water comes from a specific “tap,” whether it is a public communal resource or located within a private home. Tap waters may derive from local surface sources, but frequently they draw upon sources of a much larger geographic and temporal scope, including (1) rivers with large-area watersheds exceeding those of local creeks, (2) groundwaters drawing on deep aquifers with old or relic waters, (3) artificial reservoirs that combine supplies from several sources having different ages, including trans-basin supplies imported from other locales and even desalinized ocean waters. The isotopic composition of these imported environmental waters may differ greatly from that of local supplies. A purpose of this study was to create a database of stable hydrogen and oxygen isotopic compositions of tap waters that might serve forensic science for geolocation of biological tissue. To achieve national spatial coverage, tap water samples were collected in August 2007 and February 2008 by U.S. Geological Survey (USGS) personnel from taps in USGS offices located in the 50 States and Puerto Rico (Landwehr and others, 2013). For major population areas not included in the above collection program, volunteers were recruited to collect additional tap water samples. The spatial range of $\delta^2\text{H}$ and $\delta^{18}\text{O}$ values within the national dataset were presented by Landwehr and Coplen (2010). Locations of the 349 sampling sites are provided in appendix A.

The $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of U.S. river waters were determined for samples collected from several years in the 1980s at 391 USGS reference sites from the NASQAN and Benchmark networks (Coplen and Kendall, 2000). One of the questions that this database of tap water isotopic compositions might address

is whether the isotopic composition of river water might also be interpreted as a proxy for the isotopic composition of tap waters, given the large surface water component in public water supplies.

Methods

Each sample was collected and stored in a 60-milliliter (mL) glass bottle fitted with a Polyseal conical insert cap to minimize evaporation. Collectors were instructed to fill sample bottles with water to overflowing directly from sample collection or processing devices, whether filtered or unfiltered. Before capping the bottles, some water was poured out until the water level was at the bottle shoulder; this prevented bottles from breaking as a result of freezing during transit to the Reston Stable Isotope Laboratory (RSIL). No treatment, preservation, or special shipping was required. Sample collection information for the 691 samples collected during this study is found in appendix B.

The $\delta^2\text{H}$ and the $\delta^{18}\text{O}$ values (Coplen, 2011) are expressed relative to Vienna Standard Mean Ocean Water (VSMOW). These measurement results are normalized on scales such that the $\delta^2\text{H}$ and the $\delta^{18}\text{O}$ values of Standard Light Antarctic Precipitation (SLAP) are -428 and -55.5 ‰, respectively; their symbols are $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ and $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (Gonfiantini, 1978; Coplen, 1996; Coplen, 2011). The normalization (Coplen, 1988) was performed with the Laboratory Information Management System for Light Stable Isotopes (LIMS) (Coplen, 2000; U.S. Geological Survey, 2012).

The instrumentation used for measuring the $\delta^2\text{H}$ value of water was the VG Micromass hydrogen dual-inlet isotope-ratio mass spectrometer (DI-IRMS) equipped with a H_2 - H_2O platinum equilibration peripheral (RSIL lab code 1574; Révész and Coplen, 2008a). The instrumentation used for performing $\delta^{18}\text{O}$ measurements was the DuPont carbon dioxide DI-IRMS equipped with a CO_2 - H_2O equilibration peripheral (RSIL lab code 489; Révész and Coplen, 2008b). Half way through the study (December 2007), a laser-based Los Gatos Research (LGR) Liquid Water Isotope Analyzer (model number 908-008), termed an LGR Isotope Water Analyzer through this report, was acquired and used for measuring both $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of tap waters. Two local laboratory reference waters were analyzed daily with the samples. One of these was Antarctic water that is highly depleted in $\delta^{18}\text{O}$ and $\delta^2\text{H}$; the other was laboratory deionized water with $\delta^{18}\text{O}$ and $\delta^2\text{H}$ values reflecting those of the Potomac River. These were the quality-control samples for this study.

Tap Water $\delta^2\text{H}$ and $\delta^{18}\text{O}$ Measurement Results

The tap water samples collected in August 2007 were analyzed for hydrogen isotopic composition using the VG Micromass DI-IRMS; these measurement results are presented in appendix C. The tap water samples collected in February 2008 were analyzed for hydrogen isotopic composition primarily with the LGR Isotope Water Analyzer; these measurement results are presented in appendix D. The mean $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ values from all of the analyses are presented in appendix E, which also includes the standard deviation and number of analyses performed on each sample with each instrument. Because all samples in appendix C and appendix D were analyzed at least twice (typically on different days), one can compute standard deviations for each sample, and these are presented in appendix E.

The tap water samples collected in August 2007 and February 2008 were analyzed for oxygen isotopic composition with the DuPont DI-IRMS. Every third sample was analyzed twice, which is the standard protocol (Révész and Coplen, 2008b). The LGR Isotope Water Analyzer provides $\delta^{18}\text{O}$ measurements simultaneously with $\delta^2\text{H}$ measurements. Appendix F presents the $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ measurements of both instruments.

Analysis of Uncertainty

Although laser-based isotopic analysis of samples with high dissolved organic carbon can be substantially biased (Brand and others, 2009; Singleton and others, 2009), $\delta^2\text{H}$ analysis of tap water samples generally are of high quality. Figure 1 histograms compare the standard deviations of $\delta^2\text{H}$ values for both instruments presented in appendix E, the VG Micromass DI-IRMS and the LGR Isotope Water Analyzer. The standard deviations of analyses from both instruments are smaller than 1 ‰ (appendix E and fig. 1). The average standard deviation of the LGR Isotope Water Analyzer is comparable, but slightly lower than that of the hydrogen DI-IRMS on these tap water samples (fig. 1). If tap water samples have been analyzed by both instruments, $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ values can be averaged to calculate a mean $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ value. Tap water samples W-99125, W-99129, and W-99130 were analyzed by both instruments; their $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ values that appear in appendix E have been averaged. Mean $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ values for the 691 tap water samples are reported in appendix B.

The Reston Stable Isotope Laboratory (RSIL) estimates expanded uncertainty ($U = 2\mu_c$) for $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ measurement results. The $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ measurement uncertainty is important because U.S. Geological Survey data may be needed for forensic science applications, including providing evidence in court cases. The expanded uncertainty provides an envelope that represents a 95-percent probability of encompassing the

true value that has been determined from the aggregation of results over a period of years. The expanded uncertainty can be determined using the guide to the expression of uncertainty (Joint Committee for Guides in Metrology, Working Group 1 (JCGM/WG1), 2010). The application of expanded uncertainty to the reporting of stable isotope measurements is discussed by Coplen and others (2006). The tap water $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ measurement uncertainties presented in figure 1 and in appendix E indicate that the “long-term” expanded uncertainty of 2 ‰ by the RSIL is conservative for reporting $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ measurement results (Révész and Coplen, 2008a). Results from this study suggest that if any given sample were resubmitted to

the RSIL for hydrogen isotopic analysis, the measured value would fall within the uncertainty bounds of the previous result more than 95 percent of the time.

Similarly, the expanded uncertainty ($U = 2\mu_c$) estimated for reporting $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ measurement results has been determined from aggregating measurement results over time at the RSIL, and the long-term uncertainty ($2\mu_c$) is 0.2 ‰ (Révész and Coplen, 2008b). Figure 2 presents the standard deviation of $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ measurements of replicate DuPont isotope-ratio mass spectrometer measurements of tap waters analyzed two or more times (typically on different days). The average standard deviation of these DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$

Figure 1. Comparison of $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ standard deviations calculated from two or more $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ measurements of tap water samples (typically on different days) with the VG Micromass dual-inlet isotope-ratio mass spectrometer (DI-IRMS) and the Los Gatos Research (LGR) isotope analyzer. Data are from appendix E.

results is 0.03 ‰ (appendix F). Thus, the expanded uncertainty for $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ measurement results of 0.2 ‰. Again, if any given sample were resubmitted to the RSIL for oxygen isotopic analysis, the measured value would fall within the uncertainty bounds of the previous result more than 95 percent of the time. The mean $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ values for the 691 tap water samples are reported in appendix B.

On the other hand, the LGR Isotope Water Analyzer $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ measurements are substantially less accurate (fig. 2 and appendix F); the mean standard deviation of the

LGR Isotope Water Analyzer $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ measurements is 0.27 ‰. On average, an LGR Isotope Water Analyzer $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ measurement is biased (disagrees) from that of the DuPont DI-IRMS by 0.2 ‰. Therefore, no LGR Isotope Water Analyzer $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ measurements are used to determine $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ values of water samples in the RSIL, including this tap water study.

Figure 2. Comparison of $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ standard deviations calculated from two or more $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ measurements of tap water samples (typically on different days) with the DuPont dual-inlet isotope-ratio mass spectrometer (DI-IRMS) and the Los Gatos Research (LGR) Isotope Water Analyzer. Data are from appendix F.

Summary

The $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of tap water samples from 349 sites in the United States, Guam, Puerto Rico, and the U.S. Virgin Islands collected in August 2007 and February 2008 have been measured, creating a database of 691 tap water $\delta^2\text{H}$ and $\delta^{18}\text{O}$ measurements. The results of replicate isotopic measurements for these tap water samples confirm that the expanded uncertainties ($U = 2\mu$) obtained over a period of years by the Reston Stable Isotope Laboratory from $\delta^2\text{H}$ and $\delta^{18}\text{O}$ dual-inlet mass spectrometric measurements are conservative, at $\pm 2\%$ and $\pm 0.2\%$, respectively. These results and uncertainties are important because U.S. Geological Survey data may be needed for forensic science applications, including providing evidence in court cases.

A comparison of a laser-based Los Gatos Research instrument with the mass spectrometry methods indicated that the uncertainty of the laser-based $\delta^2\text{H}$ values for these tap water samples is comparable to the uncertainty of the RSIL dual-inlet isotope-ratio mass spectrometer, with the laser-based instrument measurements having a slightly lower uncertainty. However, the $\delta^{18}\text{O}$ measurement uncertainty of this laser-based instrument is about a factor of ten higher than that of the RSIL dual-inlet isotope-ratio mass spectrometer.

References Cited

- Brand, W.A., Geilmann, Heike, Crosson, E.R., Rella, C.W., 2009, Cavity ring-down spectroscopy versus high-temperature conversion isotope ratio mass spectrometry; a case study on $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of pure water samples and alcohol/water mixtures: *Rapid Communications in Mass Spectrometry*, v. 23, p. 1879–1884, DOI: 10.1002/rcm.4083.
- Coplen, T.B., 1988, Normalization of oxygen and hydrogen isotope data: *Chemical Geology (Isotope Geoscience Section)*, v. 72, no. 4, p. 293–297.
- Coplen, T.B., 1996, New guidelines for reporting stable hydrogen, carbon, and oxygen isotope-ratio data: *Geochimica et Cosmochimica Acta*, v. 60, no. 17, p. 3359–3360.
- Coplen, T.B., 2000, A guide for the Laboratory Information Management System (LIMS) for light stable isotopes—Versions 7 and 8: U.S. Geological Survey Open-File Report 00–345, 121 p., accessed April 1, 2012, at <http://water.usgs.gov/software/code/geochemical/lims/doc/ofr00345.pdf>.
- Coplen, T.B., 2011, Guidelines and recommended terms for expression of stable-isotope-ratio and gas-ratio measurement results: *Rapid Communications in Mass Spectrometry*, v. 25, no. 17, p. 2538–2560, freely available online at <http://onlinelibrary.wiley.com/doi/10.1002/rcm.5129/abstract>.
- Coplen, T.B., Brand, W.A., Gehre, Matthias, Gröning, Manfred, Meijer, H.A.J., Toman, Blaza, and Verkouteren, R.M., 2006, New guidelines for $\delta^{13}\text{C}$ measurements: *Analytical Chemistry*, v. 78, no. 7, p. 2439–2441.
- Coplen, T.B., and Kendall, Carol, 2000, Stable hydrogen and oxygen isotope ratios for selected sites of the U.S. Geological Survey's NASQAN and Benchmark surface-water networks, U.S. Geological Survey Open-File Report 00-160, 409 p. available at <http://pubs.usgs.gov/of/2000/ofr00-160/>.
- Dansgaard W., 1964, Stable isotopes in precipitation: *Tellus*, v. 16, p. 436–468.
- Ehleringer, J.R., Bowen, G.J., Chesson, L.A., West, A.G., Podlesak, D.W., and Cerling, T.E., 2008, Hydrogen and oxygen isotope ratios in human hair are related to geography: *Proceedings of the National Academy of Sciences*, v. 105, p. 2788–2793.
- Gonfiantini, Roberto, 1978, Standards for stable isotope measurements in natural compounds: *Nature*, v. 271, p. 534–536.
- Hobson, K.A., Atwell, Lisa, and Wassenaar, L.I., 1999, Influence of drinking water and diet on the stable-hydrogen isotope ratios of animal tissues: *Proceedings of the National Academy of Sciences*, v. 96, p. 8003–8006.
- Joint Committee for Guides in Metrology, Working Group 1 (JCGM/WG1), 2010, Evaluation of measurement data—Guide to the expression of uncertainty in measurement (known as the GUM) (2010 corrected version of the first edition of 2008): Joint Committee for Guides in Metrology [publication] JCGM 100:2008, 120 p., accessed July 16, 2012, at <http://www.bipm.org/en/publications/guides/>.
- Landwehr, J.M., and Coplen, T.B., 2010, Spatial and seasonal variability of stable isotopic compositions ($\delta^2\text{H}$ and $\delta^{18}\text{O}$) of tap waters throughout the United States [abs.]: Fourth FIRMS Network Conference, Washington, D.C., p. 15, accessed April 1, 2012, at <http://www.forensic-isotopes.org/conference/conf2010/conf2010.html>.
- Landwehr, J.M., Coplen, T.B., and Stewart, D.W., 2013, Spatial, seasonal, and source variability in the stable oxygen and hydrogen isotopic composition of tap waters throughout the United States: *Hydrological Processes*, accepted article, 55 p., DOI:10.1002/hyp.10004, <http://onlinelibrary.wiley.com/doi/10.1002/hyp.10004/pdf>.
- Meier-Augenstein, Wolfram, 2010, Stable isotope forensics—An introduction to the forensic application of stable isotope analysis: Wiley Online Library, doi:10.1002/9780470688762, accessed July 23, 2012, at <http://onlinelibrary.wiley.com/doi/10.1002/9780470688762.fmatter/summary>.

- O'Brien, D.M., and Wooller, M.J., 2007, Tracking human travel using stable oxygen and hydrogen isotope analyses of hair and urine: *Rapid Communications in Mass Spectrometry*, v. 21, p. 2422–2430.
- Révész, Kinga, and Coplen, T.B., 2008a, Determination of the $\delta(^2\text{H}/^1\text{H})$ of water—RSIL lab code 1574, chap. 1 *of* Stable isotope-ratio methods, sec. C *of* Révész, Kinga, and Coplen, T.B., eds., *Methods of the Reston Stable Isotope Laboratory: U.S. Geological Survey Techniques and Methods*, book 10, 27 p., available only at <http://pubs.usgs.gov/tm/2007/tm10c1/>.
- Révész, Kinga, and Coplen, T.B., 2008b, Determination of the $\delta(^{18}\text{O}/^{16}\text{O})$ of water—RSIL lab code 489, chap. 2 *of* Stable isotope-ratio methods, sec. C *of* Révész, Kinga, and Coplen, T.B., eds., *Methods of the Reston Stable Isotope Laboratory: U.S. Geological Survey Techniques and Methods*, book 10, 28 p., available at <http://pubs.usgs.gov/tm/2007/tm10c2/>.
- Rozanski, K., Araguás-Araguás, L., and Gonfiantini, R., 1993, Isotopic patterns in modern global precipitation, *in* *Climate Change in Continental Isotopic Records*, Swart, P.K., Lohmann, K.C., McKenzie, J., and Savin, S., eds., American Geophysical Union Geophysical Monograph 78, p. 1–36.
- Schoeller, D.A., Minagawa, M., Slater, R., and Kaplan, I.R., 1986, Stable isotopes of carbon, nitrogen and hydrogen in the contemporary North American human food web: *Ecology of Food and Nutrition*, v. 18, p. 159–170.
- Sharp, Z.D., Atudorei, Viorel, Panarello, H.O., Fernandez, Jorge, and Douthitt, Chuck, 2003, Hydrogen isotope systematics of hair—Archeological and forensic applications: *Journal of Archaeological Science*, v. 30, p. 1709–1716.
- Singleton, G.L., Coplen, T.B., Qi, Haiping, and Lorenz, J.M., 2009, Laser-based stable hydrogen and oxygen analyses—How reliable can measurement results be? [abs.]: European Geosciences Union, General Assembly, April 2009, Vienna, Austria., accessed April 1, 2012, at <http://meetingorganizer.copernicus.org/EGU2009/EGU2009-3290.pdf>.
- U.S. Geological Survey, 2012, LIMS for Light Stable Isotopes: U.S. Geological Survey Web page accessed May 23, 2012, at <http://isotopes.usgs.gov/research/topics/lims.html>.
- Wassenaar, L.I., 2008, An introduction to light stable isotopes for use in terrestrial animal migration studies, chap. 2 *in* Hobson, K.A., and Wassenaar, L.I., eds, *Tracking animal migration with stable isotopes*: Elsevier, doi: 10.1016/S1936-7961(07)00002-4, accessed July 23, 2012, at http://readerimeter.org/Wassenaar.Leonard_I/ed3ed270-8e1c-11df-ad3e-0024e8453de8/details.

Appendix A. Site Location Information for Tap Water Samples

[AK, Alaska; AL, Alabama; AR, Arkansas; AZ, Arizona; CA, California; CO, Colorado; CT, Connecticut; DC, District of Columbia; DE, Delaware; FL, Florida; GA, Georgia; GU, Guam; HI, Hawaii; IA, Iowa; ID, Idaho; IL, Illinois; IN, Indiana; KS, Kansas; KY, Kentucky; LA, Louisiana; MA, Massachusetts; MD, Maryland; ME, Maine; MI, Michigan; MN, Minnesota; MO, Missouri; MS, Mississippi; MT, Montana; NC, North Carolina; ND, North Dakota; NE, Nebraska; NH, New Hampshire; NJ, New Jersey; NM, New Mexico; NV, Nevada; NY, New York; OH, Ohio; OK, Oklahoma; OR, Oregon; PA, Pennsylvania; PR, Puerto Rico; RI, Rhode Island; SC, South Carolina; SD, South Dakota; TN, Tennessee; TX, Texas; UT, Utah; VA, Virginia; VI, Virgin Islands; VT, Vermont; WA, Washington; WI, Wisconsin; WV, West Virginia; WY, Wyoming, m, meter]

Site no.	Site name	City	State	Latitude	Longitude	Elevation (m)
1	ME-AFB-04469	Orono	ME	44.901	-68.666	34.5
2	ME-AFC-04469	Orono	ME	44.904	-68.662	35.9
3	ME-AFD-04469	Orono	ME	44.895	-68.667	32.2
4	ME-AFA-04330	Augusta	ME	44.304	-69.809	92.2
5	MA-AGA-01532	Northborough	MA	42.343	-71.626	76.7
6	NH-ANH-03275	Pembroke	NH	43.189	-71.479	139.6
7	CT-AJB-06108	East Hartford	CT	41.764	-72.651	10
8	MA-AGB-01376	Turners Falls	MA	42.600	-72.568	73.3
9	MA-AGG-01003	Amherst	MA	42.393	-72.531	72
10	MA-AGD-02543	Woods Hole	MA	41.533	-70.654	9.7
11	MA-AGK-02139	Cambridge	MA	42.359	-71.094	3.1
12	RI-AIA-02865	Lincoln	RI	41.929	-71.483	105.8
13	RI-AIA-02908	Providence	RI	41.829	-71.420	19.2
14	RI-ZPR-02912	Providence	RI	41.828	-71.399	24.3
15	RI-AIB-02882	Kingston	RI	41.485	-71.525	59.1
16	CT-AJC-06269	Storrs	CT	41.809	-72.292	144.6
17	VT-ADB-05405	Burlington	VT	44.475	-73.187	81.7
18	VT-ADA-05602	Montpelier	VT	44.261	-72.578	180.8
19	VT-ADC-05602	Berlin	VT	44.208	-72.566	313.9
20	NY-AHA-12180	Troy	NY	42.682	-73.700	63.6
21	NY-AHH-12561	New Paltz	NY	41.802	-74.089	60.9
22	NJ-AKB-08540	Princeton	NJ	40.348	-74.616	29.1
23	NY-NYC-11374	Rego Park	NY	40.724	-73.856	15.1
24	NY-AHO-11727	Coram	NY	40.880	-73.010	29.6
25	DE-AMA-19901	Dover	DE	39.155	-75.488	5.2
26	NJ-AKA-08628	West Trenton	NJ	40.278	-74.830	48.6
27	PA-ALP-19341	Exton	PA	40.065	-75.685	145.3
28	PA-ZPH-19143	Philadelphia	PA	39.953	-75.223	28.4
29	PA-ALM-18337	Milford	PA	41.324	-74.842	268.9
30	PA-ALC-16802	University Park	PA	40.800	-77.869	352.2
31	PA-ALB-17701	Williamsport	PA	41.241	-77.007	169.3
32	PA-ALA-16901	Wellsboro	PA	41.776	-77.398	465.2
33	PA-ALH-17070	New Cumberland	PA	40.214	-76.873	122.7
34	MD-ACJ-21403	Annapolis	MD	38.972	-76.483	1.9
35	MD-ACN-21228	Baltimore	MD	39.249	-76.715	69
36	MD-ACC-20708	Laurel	MD	39.054	-76.816	38.9
37	MD-ACB-20708	Laurel	MD	39.054	-76.820	40.9
38	DC-ABB-20240	Washington	DC	38.894	-77.043	12.5

Appendix A. Site Location Information for Tap Water Samples—continued

[AK, Alaska; AL, Alabama; AR, Arkansas; AZ, Arizona; CA, California; CO, Colorado; CT, Connecticut; DC, District of Columbia; DE, Delaware; FL, Florida; GA, Georgia; GU, Guam; HI, Hawaii; IA, Iowa; ID, Idaho; IL, Illinois; IN, Indiana; KS, Kansas; KY, Kentucky; LA, Louisiana; MA, Massachusetts; MD, Maryland; ME, Maine; MI, Michigan; MN, Minnesota; MO, Missouri; MS, Mississippi; MT, Montana; NC, North Carolina; ND, North Dakota; NE, Nebraska; NH, New Hampshire; NJ, New Jersey; NM, New Mexico; NV, Nevada; NY, New York; OH, Ohio; OK, Oklahoma; OR, Oregon; PA, Pennsylvania; PR, Puerto Rico; RI, Rhode Island; SC, South Carolina; SD, South Dakota; TN, Tennessee; TX, Texas; UT, Utah; VA, Virginia; VI, Virgin Islands; VT, Vermont; WA, Washington; WI, Wisconsin; WV, West Virginia; WY, Wyoming; m, meter]

Site no.	Site name	City	State	Latitude	Longitude	Elevation (m)
39	DC-ABC-20560	Washington	DC	38.892	-77.026	10.5
40	DC-ABE-20523	Washington	DC	38.895	-77.030	12.8
41	MD-ACL-21532	Frostburg	MD	39.648	-78.934	595.9
42	MD-ACZ-20705	Beltsville	MD	39.024	-76.923	40.8
43	VA-AAA-20192	Reston	VA	38.951	-77.369	117.7
44	WV-ANA-25430	Kearneysville	WV	39.350	-77.932	159.7
45	VA-AAN-22904	Charlottesville	VA	38.035	-78.505	153.1
46	VA-AAP-22903	Charlottesville	VA	38.026	-78.527	162.8
47	VA-AAV-22446	Corbin	VA	38.199	-77.389	57.2
48	VA-AAR-23228	Richmond	VA	37.639	-77.477	54.9
49	NC-AVB-27607	Raleigh	NC	35.813	-78.706	123.2
50	NC-AVD-27695	Raleigh	NC	35.810	-78.724	119.8
51	NC-AVI-28742	Whiteville	NC	34.392	-78.805	29
52	SC-AZC-29527	Conway	SC	33.796	-79.009	12
53	NC-AVG-28217	Charlotte	NC	35.165	-80.882	209.4
54	SC-AZE-29482	Sullivan Island	SC	32.758	-79.844	0.2
55	SC-AZF-29405	Charleston	SC	32.850	-79.945	1.1
56	SC-AZA-29210	Columbia	SC	34.016	-81.084	65.8
57	GA-AYB-31407	Savannah	GA	32.170	-81.210	3.6
58	SC-AZG-29631	Clemson	SC	34.687	-82.836	218
59	GA-AYA-30602	Athens	GA	33.945	-83.375	208
60	GA-AYC-30602	Athens	GA	33.945	-83.375	208
61	FL-BAE-32605	Gainesville	FL	29.673	-82.385	38.7
62	FL-BAP-32611	Gainesville	FL	29.647	-82.339	37.7
63	FL-BAL-32826	Orlando	FL	28.590	-81.192	16.3
64	FL-AAF-33314	Ft Lauderdale	FL	26.079	-80.239	1
65	FL-BAM-33315	Ft Lauderdale	FL	26.086	-80.153	1
66	FL-BAN-34141	Ochopee	FL	25.901	-81.316	1
67	FL-BAF-33907	Fort Myers	FL	26.596	-81.888	2.4
68	FL-BAI-33146	Coral Gables	FL	25.721	-80.280	2.9
69	FL-BAJ-33034	Homestead	FL	25.395	-80.581	0.8
70	FL-BAB-33612	Tampa	FL	28.045	-82.422	12.7
71	FL-AFP-33701	St Petersburg	FL	27.764	-82.638	4
72	FL-BAC-32653	Gainesville	FL	29.720	-82.418	50.5
73	GA-AYF-31793	Tifton	GA	31.463	-83.504	106.2
74	FL-BAA-32310	Tallahassee	FL	30.424	-84.312	23.8
75	GA-AYH-31702	Albany	GA	31.581	-84.154	57
76	GA-AYE-30360	Atlanta	GA	33.929	-84.262	315

Appendix A. Site Location Information for Tap Water Samples—continued

[AK, Alaska; AL, Alabama; AR, Arkansas; AZ, Arizona; CA, California; CO, Colorado; CT, Connecticut; DC, District of Columbia; DE, Delaware; FL, Florida; GA, Georgia; GU, Guam; HI, Hawaii; IA, Iowa; ID, Idaho; IL, Illinois; IN, Indiana; KS, Kansas; KY, Kentucky; LA, Louisiana; MA, Massachusetts; MD, Maryland; ME, Maine; MI, Michigan; MN, Minnesota; MO, Missouri; MS, Mississippi; MT, Montana; NC, North Carolina; ND, North Dakota; NE, Nebraska; NH, New Hampshire; NJ, New Jersey; NM, New Mexico; NV, Nevada; NY, New York; OH, Ohio; OK, Oklahoma; OR, Oregon; PA, Pennsylvania; PR, Puerto Rico; RI, Rhode Island; SC, South Carolina; SD, South Dakota; TN, Tennessee; TX, Texas; UT, Utah; VA, Virginia; VI, Virgin Islands; VT, Vermont; WA, Washington; WI, Wisconsin; WV, West Virginia; WY, Wyoming, m, meter]

Site no.	Site name	City	State	Latitude	Longitude	Elevation (m)
77	GA-AYN-30092	Norcross	GA	33.964	–84.251	286.8
78	FL-BAO-32561	Gulf Breeze	FL	30.335	–87.154	0
79	AL-AXC-36849	Auburn	AL	32.605	–85.487	203.2
80	AL-AXB-36117	Montgomery	AL	32.369	–86.129	67.1
81	AL-AXE-35401	Tuscaloosa	AL	33.211	–87.562	58
82	MS-AWD-39762	Starkville	MS	33.451	–88.795	108.6
83	MS-AWA-39529	Stennis	MS	30.379	–89.630	5.3
84	MS-AWC-39208	Jackson	MS	32.276	–90.072	109.8
85	WI-ARE-54806	Ashland	WI	46.608	–90.848	189.3
86	MI-BDE-49829	Escanaba	MI	45.746	–87.070	183.7
87	IN-AQA-46304	Porter	IN	41.632	–87.087	188.4
88	WI-ARQ-53211	Milwaukee	WI	43.075	–87.882	198.5
89	MI-BDL-48911	Lansing	MI	42.664	–84.536	264
90	MI-BDG-49738	Grayling	MI	44.713	–84.704	363.5
91	MI-BDC-49759	Millersburg	MI	45.493	–84.037	183.1
92	MI-BDA-48105	Ann Arbor	MI	42.294	–83.693	264
93	MI-ZDT-48230	Detroit	MI	42.372	–82.921	175.9
94	OH-AOC-44870	Sandusky	OH	41.380	–82.663	193.3
95	OH-ZCL-44106	Cleveland	OH	41.507	–81.608	215.8
96	NY-AHD-13045	Cortland	NY	42.555	–76.245	389.6
97	NY-AHG-13210	Syracuse	NY	43.035	–76.137	152.4
98	NY-AHB-13126	Oswego	NY	43.462	–76.517	84.3
99	NY-AHC-14850	Ithaca	NY	42.488	–76.465	326.4
100	NY-AHE-14853	Ithaca	NY	42.454	–76.484	243.6
101	NY-AHF-13676	Potsdam	NY	44.671	–74.989	130.3
102	WV-ANL-26506	Morgantown	WV	39.624	–79.963	309.7
103	PA-ALI-15205	Pittsburgh	PA	40.438	–80.144	344.4
104	OH-AOB-44663	New Philadelphia	OH	40.505	–81.456	280.8
105	VA-AAE-24061	Blacksburg	VA	37.216	–80.424	633.2
106	WV-ANC-25301	Charleston	WV	38.347	–81.635	217.3
107	OH-AOA-43229	Columbus	OH	40.099	–82.987	278.3
108	OH-AOD-43210	Columbus	OH	40.002	–83.026	229.5
109	IL-ASC-61801	Urbana	IL	40.116	–88.224	220.5
110	IN-AQC-46278	Indianapolis	IN	39.877	–86.267	258
111	KY-ATJ-40769	Williamsburg	KY	36.735	–84.154	314.1
112	TN-AUC-37211	Nashville	TN	36.087	–86.749	176.5
113	TN-AUF-38505	Cookeville	TN	36.177	–85.504	344.3
114	KY-ATL-40299	Louisville	KY	38.222	–85.572	205.6

Appendix A. Site Location Information for Tap Water Samples—continued

[AK, Alaska; AL, Alabama; AR, Arkansas; AZ, Arizona; CA, California; CO, Colorado; CT, Connecticut; DC, District of Columbia; DE, Delaware; FL, Florida; GA, Georgia; GU, Guam; HI, Hawaii; IA, Iowa; ID, Idaho; IL, Illinois; IN, Indiana; KS, Kansas; KY, Kentucky; LA, Louisiana; MA, Massachusetts; MD, Maryland; ME, Maine; MI, Michigan; MN, Minnesota; MO, Missouri; MS, Mississippi; MT, Montana; NC, North Carolina; ND, North Dakota; NE, Nebraska; NH, New Hampshire; NJ, New Jersey; NM, New Mexico; NV, Nevada; NY, New York; OH, Ohio; OK, Oklahoma; OR, Oregon; PA, Pennsylvania; PR, Puerto Rico; RI, Rhode Island; SC, South Carolina; SD, South Dakota; TN, Tennessee; TX, Texas; UT, Utah; VA, Virginia; VI, Virgin Islands; VT, Vermont; WA, Washington; WI, Wisconsin; WV, West Virginia; WY, Wyoming, m, meter]

Site no.	Site name	City	State	Latitude	Longitude	Elevation (m)
115	KY-ATG-42001	Paducah	KY	37.086	-88.600	98.9
116	NC-AVA-28704	Arden	NC	35.460	-82.516	687.6
117	TN-AUD-37921	Knoxville	TN	35.962	-83.963	285.4
118	TN-AUE-37996	Knoxville	TN	35.951	-83.948	267.9
119	TN-AUA-37738	Gatlinburg	TN	35.706	-83.513	518.9
120	VA-JAL-24354	Marion	VA	36.847	-81.491	700.4
121	MN-BCF-55455	Minneapolis	MN	44.976	-93.231	251.2
122	MN-BCC-55112	Mounds View	MN	45.097	-93.199	275.3
123	MN-BCH-55108	St Paul	MN	44.983	-93.181	285.9
124	MN-BCJ-55108	St Paul	MN	44.989	-93.186	289.9
125	WI-ARF-54603	LaCrosse	WI	43.868	-91.255	197.7
126	WI-ARP-54868	Rice Lake	WI	45.509	-91.740	350.2
127	WI-ARB-54452	Merrill	WI	45.181	-89.672	386.4
128	WI-ARI-54481	Stevens Point	WI	44.527	-89.570	333.6
129	IA-KJC-52240	Iowa City	IA	41.656	-91.535	205.7
130	IA-KJE-50011	Ames	IA	42.026	-93.648	284.9
131	IL-ASD-60115	De Kalb	IL	41.934	-88.726	271.8
132	WI-ARA-53562	Middleton	WI	43.092	-89.534	290
133	WI-ARC-53711	Madison	WI	43.057	-89.468	298
134	WI-ARG-53711	Madison	WI	43.046	-89.484	309.4
135	WI-ARJ-54706	Madison	WI	43.075	-89.414	262.3
136	WI-ARM-53562	Middleton	WI	43.093	-89.533	288.7
137	IA-KJB-50501	Fort Dodge	IA	42.508	-94.192	326
138	IL-ZZZ-60607	Chicago	IL	41.869	-87.648	179.4
139	IL-ASB-62864	Mt. Vernon	IL	38.318	-88.898	141.5
140	MO-KRD-65401	Rolla	MO	37.954	-91.745	323.8
141	MO-KRJ-63103	St. Louis	MO	38.637	-90.233	151.7
142	TN-AUB-38111	Memphis	TN	35.105	-89.931	87.7
143	TN-AUG-38152	Memphis	TN	35.123	-89.933	90.6
144	TN-AUH-38152	Memphis	TN	35.123	-89.936	90.1
145	LA-KFK-71270	Ruston	LA	32.507	-92.676	88.4
146	MS-AWB-39180	Vicksburg	MS	32.328	-90.861	62.1
147	MS-AWE-39183	Vicksburg	MS	32.395	-90.778	73.9
148	LA-KFB-70816	Baton Rouge	LA	30.421	-91.051	11.6
149	LA-KFC-70803	Baton Rouge	LA	30.411	-91.175	7.7
150	LA-KFD-70803	Baton Rouge	LA	30.411	-91.175	7.7
151	LA-KFA-70506	Lafayette	LA	30.224	-92.046	9.6
152	LA-KFZ-70148	New Orleans	LA	30.031	-90.065	0

Appendix A. Site Location Information for Tap Water Samples—continued

[AK, Alaska; AL, Alabama; AR, Arkansas; AZ, Arizona; CA, California; CO, Colorado; CT, Connecticut; DC, District of Columbia; DE, Delaware; FL, Florida; GA, Georgia; GU, Guam; HI, Hawaii; IA, Iowa; ID, Idaho; IL, Illinois; IN, Indiana; KS, Kansas; KY, Kentucky; LA, Louisiana; MA, Massachusetts; MD, Maryland; ME, Maine; MI, Michigan; MN, Minnesota; MO, Missouri; MS, Mississippi; MT, Montana; NC, North Carolina; ND, North Dakota; NE, Nebraska; NH, New Hampshire; NJ, New Jersey; NM, New Mexico; NV, Nevada; NY, New York; OH, Ohio; OK, Oklahoma; OR, Oregon; PA, Pennsylvania; PR, Puerto Rico; RI, Rhode Island; SC, South Carolina; SD, South Dakota; TN, Tennessee; TX, Texas; UT, Utah; VA, Virginia; VI, Virgin Islands; VT, Vermont; WA, Washington; WI, Wisconsin; WV, West Virginia; WY, Wyoming, m, meter]

Site no.	Site name	City	State	Latitude	Longitude	Elevation (m)
153	LA-KFE-70445	Lacombe	LA	30.320	−89.933	3.2
154	ND-KLC-58203	Grand Forks	ND	47.925	−97.033	250.6
155	MT-KKA-59717	Bozeman	MT	45.662	−111.047	1492.7
156	MT-KKG-59717	Bozeman	MT	45.665	−111.049	1487.5
157	MT-KKO-59717	Bozeman	MT	45.665	−111.049	1487.5
158	MT-KKB-59601	Helena	MT	46.600	−111.982	1183.3
159	MT-KKE-59223	Fort Peck	MT	48.009	−106.449	651.2
160	MT-KKD-59102	Billings	MT	45.761	−108.558	972.3
161	WY-KOC-82501	Riverton	WY	43.013	−108.374	1503.2
162	SD-KMC-57702	Rapid City	SD	44.071	−103.256	1009.1
163	ND-KLB-58501	Bismarck	ND	46.833	−100.780	557.1
164	SD-KMB-57501	Pierre	SD	44.526	−100.424	514
165	ND-KLA-58401	Jamestown	ND	46.878	−98.627	452.1
166	SD-KMF-57350	Huron	SD	44.365	−98.213	388
167	SD-KMD-57007	Brookings	SD	44.297	−96.765	502
168	SD-KMN-57198	Sioux Falls	SD	43.733	−96.629	475.8
169	SD-KMA-57078	Yankton	SD	42.877	−97.476	400.5
170	NE-KDD-69101	North Platte	NE	41.135	−100.761	853.5
171	WY-KOB-82071	Laramie	WY	41.311	−105.580	2187.5
172	WY-KOP-82604	Casper	WY	42.829	−106.363	1574.8
173	CO-KDG-80303	Boulder	CO	40.014	−105.251	1615.7
174	CO-KAH-80225	Lakewood	CO	39.726	−104.972	1611.7
175	CO-KAN-80227	Lakewood	CO	39.669	−105.083	1658
176	CO-KCI-80401	Golden	CO	39.750	−105.220	1800.3
177	CO-KZW-80403	Golden	CO	39.782	−105.182	1728.6
178	CO-KBA-80526	Fort Collins	CO	40.558	−105.087	1534.3
179	CO-KBB-80523	Fort Collins	CO	40.578	−105.094	1531.9
180	CO-KBF-80523	Fort Collins	CO	40.574	−105.084	1525.9
181	WY-KOL-82001	Cheyenne	WY	41.138	−104.785	1845.5
182	NE-KDB-68512	Lincoln	NE	40.762	−96.695	365.8
183	NE-KDC-68862	Ord	NE	41.616	−98.944	628.6
184	IA-KJA-51502	Council Bluffs	IA	41.261	−95.852	313
185	KS-KQA-67601	Hays	KS	38.866	−99.321	607.9
186	KS-KQD-66049	Lawrence	KS	38.960	−95.305	298.1
187	KS-KQL-66506	Manhattan	KS	39.191	−96.583	330
188	MO-KRG-65201	Columbia	MO	38.912	−92.277	241.1
189	MO-KRI-65201	Columbia	MO	38.931	−92.299	225.5
190	MO-KRI-65211	Columbia	MO	38.949	−92.332	225.2

Appendix A. Site Location Information for Tap Water Samples—continued

[AK, Alaska; AL, Alabama; AR, Arkansas; AZ, Arizona; CA, California; CO, Colorado; CT, Connecticut; DC, District of Columbia; DE, Delaware; FL, Florida; GA, Georgia; GU, Guam; HI, Hawaii; IA, Iowa; ID, Idaho; IL, Illinois; IN, Indiana; KS, Kansas; KY, Kentucky; LA, Louisiana; MA, Massachusetts; MD, Maryland; ME, Maine; MI, Michigan; MN, Minnesota; MO, Missouri; MS, Mississippi; MT, Montana; NC, North Carolina; ND, North Dakota; NE, Nebraska; NH, New Hampshire; NJ, New Jersey; NM, New Mexico; NV, Nevada; NY, New York; OH, Ohio; OK, Oklahoma; OR, Oregon; PA, Pennsylvania; PR, Puerto Rico; RI, Rhode Island; SC, South Carolina; SD, South Dakota; TN, Tennessee; TX, Texas; UT, Utah; VA, Virginia; VI, Virgin Islands; VT, Vermont; WA, Washington; WI, Wisconsin; WV, West Virginia; WY, Wyoming, m, meter]

Site no.	Site name	City	State	Latitude	Longitude	Elevation (m)
191	MO-KRH-65211	Columbia	MO	38.945	-92.328	226
192	MO-KRA-64086	Lee's Summit	MO	38.939	-94.390	294.9
193	AR-AEW-72701	Fayetteville	AR	36.041	-94.164	386.9
194	AR-KEB-72701	Fayetteville	AR	36.070	-94.176	400.4
195	AR-KEF-72701	Fayetteville	AR	36.070	-94.176	400.4
196	CO-KBO-81003	Pueblo	CO	38.275	-104.605	1434.5
197	KS-KQB-67209	Wichita	KS	37.673	-97.434	404.6
198	OK-KHC-74078	Stillwater	OK	36.125	-97.073	274.5
199	OK-KHB-74133	Tulsa	OK	36.076	-95.863	213.2
200	OK-KHA-73116	Oklahoma City	OK	35.539	-97.515	351.1
201	OK-KHH-73801	Woodward	OK	36.426	-99.402	600.6
202	AR-AEU-72201	Little Rock	AR	34.744	-92.271	87.4
203	AR-KED-72211	Little Rock	AR	34.749	-92.398	137.7
204	TX-KIL-76308	Wichita Falls	TX	33.883	-98.530	301.7
205	TX-KII-75202	Dallas	TX	32.785	-96.802	131.8
206	TX-KIR-76133	Fort Worth	TX	32.649	-97.358	230.2
207	TX-ZHS-77040	Houston	TX	29.889	-95.575	33.7
208	TX-KIG-77385	Conroe	TX	30.183	-95.449	41.4
209	TX-KIM-79409	Lubbock	TX	33.585	-101.877	980.5
210	TX-KIE-77843	College Station	TX	30.623	-96.341	100
211	TX-KIJ-76903	San Angelo	TX	31.429	-100.450	566
212	TX-KIA-78754	Austin	TX	30.336	-97.663	177.5
213	TX-KIK-78249	San Antonio	TX	29.563	-98.594	297.9
214	TX-KIH-78412	Corpus Christi	TX	27.717	-97.327	0.5
215	TX-KIS-78412	Corpus Christi	TX	27.717	-97.327	0.5
216	NM-KGA-87117	Albuquerque	NM	35.050	-106.619	1593
217	NM-KGI-87109	Albuquerque	NM	35.131	-106.584	1587.7
218	NM-KGH-87544	Los Alamos	NM	35.777	-106.269	1969.6
219	NM-KGL-88003	Las Cruces	NM	32.282	-106.756	1187.4
220	TX-KIP-79935	El Paso	TX	31.750	-106.341	1159.9
221	NM-KGC-88220	Carlsbad	NM	32.420	-104.230	950
222	CO-KBG-81506	Grand Junction	CO	39.116	-108.533	1455.5
223	UT-KNB-84532	Moab	UT	38.537	-109.511	1400.2
224	UT-KND-84532	Moab	UT	38.570	-109.553	1285.8
225	CO-KBK-81641	Meeker	CO	40.037	-107.915	1939.2
226	CO-KBI-81303	Durango	CO	37.236	-107.873	2115.7
227	NV-WNV-89074	Henderson	NV	36.041	-115.047	582.5
228	UT-KNE-84741	Kanab	UT	37.048	-112.527	1527.7

Appendix A. Site Location Information for Tap Water Samples—continued

[AK, Alaska; AL, Alabama; AR, Arkansas; AZ, Arizona; CA, California; CO, Colorado; CT, Connecticut; DC, District of Columbia; DE, Delaware; FL, Florida; GA, Georgia; GU, Guam; HI, Hawaii; IA, Iowa; ID, Idaho; IL, Illinois; IN, Indiana; KS, Kansas; KY, Kentucky; LA, Louisiana; MA, Massachusetts; MD, Maryland; ME, Maine; MI, Michigan; MN, Minnesota; MO, Missouri; MS, Mississippi; MT, Montana; NC, North Carolina; ND, North Dakota; NE, Nebraska; NH, New Hampshire; NJ, New Jersey; NM, New Mexico; NV, Nevada; NY, New York; OH, Ohio; OK, Oklahoma; OR, Oregon; PA, Pennsylvania; PR, Puerto Rico; RI, Rhode Island; SC, South Carolina; SD, South Dakota; TN, Tennessee; TX, Texas; UT, Utah; VA, Virginia; VI, Virgin Islands; VT, Vermont; WA, Washington; WI, Wisconsin; WV, West Virginia; WY, Wyoming, m, meter]

Site no.	Site name	City	State	Latitude	Longitude	Elevation (m)
229	AZ-WZA-86001	Flagstaff	AZ	35.215	−111.633	2148.4
230	AZ-WZI-86011	Flagstaff	AZ	35.190	−111.652	2115.8
231	AZ-WZX-85364	Yuma	AZ	32.692	−114.623	58.9
232	AZ-ZCH-85249	Chandler	AZ	33.213	−111.771	384.8
233	AZ-WZE-85719	Tucson	AZ	32.229	−110.957	734.9
234	AZ-WZH-85745	Tucson	AZ	32.226	−111.003	766.2
235	AZ-WZJ-85721	Tucson	AZ	32.230	−110.952	738.9
236	AZ-WZG-85281	Tempe	AZ	33.422	−111.967	348.1
237	AZ-ZPX-85018	Phoenix	AZ	33.510	−112.010	368.6
238	AZ-ZPX-85029	Phoenix	AZ	33.585	−112.149	373.2
239	UT-KNA-84322	Logan	UT	41.741	−111.817	1406.9
240	UT-KNJ-84119	Salt Lake City	UT	40.719	−111.951	1291.9
241	UT-KNM-84720	Cedar City	UT	37.685	−113.096	1723.1
242	NV-WNE-89801	Elko	NV	40.830	−115.764	1557.9
243	CA-WBJ-96140	Carnelian Bay	CA	39.226	−120.083	2006.4
244	NV-XNB-89557	Reno	NV	39.538	−119.817	1407
245	NV-ZDQ-89502	Reno	NV	39.507	−119.749	1340.1
246	NV-WNC-89701	Carson City	NV	39.182	−119.708	1427.6
247	ID-WIS-83854	Post Falls	ID	47.700	−117.008	650.8
248	MT-KKC-59903	Kalispell	MT	48.206	−114.297	896.8
249	MT-KKF-59936	West Glacier	MT	48.501	−113.985	1003.3
250	MT-KKI-59801	Missoula	MT	46.857	−113.986	1003.4
251	WA-WWP-99201	Spokane	WA	47.658	−117.425	584.4
252	WA-WWR-99201	Spokane	WA	47.658	−117.425	584.4
253	WA-WWH-99301	Pasco	WA	46.231	−119.091	116.8
254	ID-WIG-83209	Pocatello	ID	42.862	−112.433	1377.9
255	ID-WII-83403	Idaho Falls	ID	43.517	−112.047	1438.8
256	ID-WIK-83402	Idaho Falls	ID	43.495	−112.038	1436.1
257	ID-WIZ-83215	Scoville	ID	43.445	−112.812	1530.9
258	ID-WIT-83301	Twin Falls	ID	42.563	−114.433	1142.3
259	WY-KOA-83001	Jackson	WY	43.543	−110.727	1933.8
260	WY-KOD-83001	Jackson	WY	43.480	−110.748	1930.9
261	ID-WIA-83702	Boise	ID	43.617	−116.189	838.7
262	ID-WID-83706	Boise	ID	43.609	−116.211	823
263	ID-WIB-83844	Moscow	ID	46.730	−116.984	795.9
264	ID-WIF-83843	Moscow	ID	46.731	−117.005	799.7
265	WA-WWL-98605	Cook	WA	45.749	−121.633	295.8
266	WA-WWA-98683	Vancouver	WA	45.612	−122.496	86.7

Appendix A. Site Location Information for Tap Water Samples—continued

[AK, Alaska; AL, Alabama; AR, Arkansas; AZ, Arizona; CA, California; CO, Colorado; CT, Connecticut; DC, District of Columbia; DE, Delaware; FL, Florida; GA, Georgia; GU, Guam; HI, Hawaii; IA, Iowa; ID, Idaho; IL, Illinois; IN, Indiana; KS, Kansas; KY, Kentucky; LA, Louisiana; MA, Massachusetts; MD, Maryland; ME, Maine; MI, Michigan; MN, Minnesota; MO, Missouri; MS, Mississippi; MT, Montana; NC, North Carolina; ND, North Dakota; NE, Nebraska; NH, New Hampshire; NJ, New Jersey; NM, New Mexico; NV, Nevada; NY, New York; OH, Ohio; OK, Oklahoma; OR, Oregon; PA, Pennsylvania; PR, Puerto Rico; RI, Rhode Island; SC, South Carolina; SD, South Dakota; TN, Tennessee; TX, Texas; UT, Utah; VA, Virginia; VI, Virgin Islands; VT, Vermont; WA, Washington; WI, Wisconsin; WV, West Virginia; WY, Wyoming, m, meter]

Site no.	Site name	City	State	Latitude	Longitude	Elevation (m)
267	OR-WOB-97331	Corvallis	OR	44.564	-123.288	79.5
268	OR-WOR-97331	Corvallis	OR	44.564	-123.274	74
269	OR-WOH-97330	Corvallis	OR	44.572	-123.264	72.9
270	OR-WOD-97331	Corvallis	OR	44.564	-123.274	74
271	OR-XOB-97331	Corvallis	OR	44.564	-123.288	79.5
272	OR-WOA-97201	Portland	OR	45.508	-122.683	88.9
273	OR-WOJ-97204	Portland	OR	45.520	-122.672	23.7
274	OR-WOM-97502	Central Point	OR	42.387	-122.875	393.2
275	OR-WOI-97365	Newport	OR	44.619	-124.050	7.6
276	WA-WWC-98362	Port Angeles	WA	48.102	-123.430	71.5
277	WA-WWI-98358	Nordland	WA	48.101	-122.689	5
278	WA-WUW-98195	Seattle	WA	47.655	-122.312	44.4
279	WA-WWB-98104	Seattle	WA	47.604	-122.336	21.5
280	WA-WWE-98195	Seattle	WA	47.652	-122.310	32.8
281	WA-WWF-98115	Seattle	WA	47.676	-122.255	20.8
282	WA-WWN-98195	Seattle	WA	47.651	-122.313	31.3
283	WA-WWT-98402	Tacoma	WA	47.255	-122.441	59.2
284	WA-ZET-89499	Lakewood	WA	47.176	-122.491	78.1
285	WA-WWQ-98284	Sedro Woolley	WA	48.529	-122.057	98.3
286	CA-WBQ-95521	Arcata	CA	40.874	-124.081	21
287	CA-WCE-95501	Eureka	CA	40.808	-124.166	3.5
288	CA-WCP-95521	Arcata	CA	40.903	-124.087	8.7
289	CA-WCX-95482	Ukiah	CA	39.184	-123.210	210.1
290	OR-WOF-97603	Klamath Falls	OR	42.181	-121.755	1249.1
291	CA-WBS-95826	Sacramento	CA	38.531	-121.388	12.9
292	CA-WCA-95819	Sacramento	CA	38.567	-121.427	9.8
293	CA-WEA-95819	Sacramento	CA	38.559	-121.421	10.6
294	CA-WCL-96003	Redding	CA	40.610	-122.370	195.7
295	CA-WCH-95620	Dixon	CA	38.496	-121.799	19.5
296	CA-WCJ-95616	Davis	CA	38.541	-121.748	15.7
297	CA-WBZ-93271	Three Rivers	CA	36.487	-118.837	632.8
298	CA-WBY-95318	El Portal	CA	37.675	-119.785	768.8
299	CA-WSN-95389	Wawona	CA	37.540	-119.657	1317.5
300	CA-WMX-94545	Hayward	CA	37.646	-122.098	14.9
301	CA-WCO-94956	Point Reyes	CA	38.061	-122.817	107
302	CA-ZSF-94114	San Francisco	CA	37.762	-122.432	81.4
303	CA-WBM-94025	Menlo Park	CA	37.457	-122.169	17.2
304	CA-WMR-94025	Menlo Park	CA	37.475	-122.151	4.6

Appendix A. Site Location Information for Tap Water Samples—continued

[AK, Alaska; AL, Alabama; AR, Arkansas; AZ, Arizona; CA, California; CO, Colorado; CT, Connecticut; DC, District of Columbia; DE, Delaware; FL, Florida; GA, Georgia; GU, Guam; HI, Hawaii; IA, Iowa; ID, Idaho; IL, Illinois; IN, Indiana; KS, Kansas; KY, Kentucky; LA, Louisiana; MA, Massachusetts; MD, Maryland; ME, Maine; MI, Michigan; MN, Minnesota; MO, Missouri; MS, Mississippi; MT, Montana; NC, North Carolina; ND, North Dakota; NE, Nebraska; NH, New Hampshire; NJ, New Jersey; NM, New Mexico; NV, Nevada; NY, New York; OH, Ohio; OK, Oklahoma; OR, Oregon; PA, Pennsylvania; PR, Puerto Rico; RI, Rhode Island; SC, South Carolina; SD, South Dakota; TN, Tennessee; TX, Texas; UT, Utah; VA, Virginia; VI, Virgin Islands; VT, Vermont; WA, Washington; WI, Wisconsin; WV, West Virginia; WY, Wyoming, m, meter]

Site no.	Site name	City	State	Latitude	Longitude	Elevation (m)
305	CA-XBM-94025	Menlo Park	CA	37.457	-122.169	17.2
306	CA-ZSJ-95112	San Jose	CA	37.352	-121.901	20.3
307	CA-WBW-94592	Vallejo	CA	38.099	-122.275	2.8
308	CA-WCS-93933	Marina	CA	36.677	-121.762	42.3
309	CA-WDC-93451	San Miguel	CA	35.896	-120.433	477.3
310	CA-ZBB-93933	Marina	CA	36.679	-121.782	33.6
311	CA-WEG-93106	Santa Barbara	CA	34.415	-119.840	2.5
312	CA-WNS-93455	Santa Maria	CA	34.902	-120.448	71.4
313	CA-WAP-95060	Santa Cruz	CA	36.959	-122.057	35.9
314	CA-WCV-95060	Santa Cruz	CA	36.955	-122.062	23
315	CA-WNK-91106	Pasadena	CA	34.137	-118.128	231.2
316	CA-ZLA-90024	Los Angeles	CA	34.051	-118.442	82.1
317	CA-WDA-92602	Irvine	CA	33.717	-117.787	25.5
318	CA-WEC-92521	Riverside	CA	33.976	-117.331	312.4
319	CA-WBU-92553	Moreno Valley	CA	33.914	-117.264	474.7
320	CA-WAY-92011	Carlsbad	CA	33.123	-117.306	38.5
321	CA-WCG-92101	San Diego	CA	32.732	-117.209	9
322	CA-WCK-92064	Poway	CA	32.937	-117.037	205.6
323	CA-WED-92037	La Jolla	CA	32.868	-117.251	45.5
324	CA-WEF-93514	Bishop	CA	37.361	-118.387	1263
325	CA-WAQ-93546	Mammoth Lakes	CA	37.640	-118.966	2435.6
326	CA-WBP-92308	Apple Valley	CA	34.498	-117.183	899.2
327	NV-WNM-89023	Mercury	NV	37.160	-116.233	1924.6
328	CA-WSS-92253	La Quinta	CA	33.716	-116.297	37.6
329	AK-WBK-99801	Juneau	AK	58.361	-134.589	7.3
330	AK-ZAK-99801	Juneau	AK	58.379	-134.702	3
331	AK-ZJU-99801	Juneau	AK	58.390	-134.591	14
332	AK-ZKN-99901	Ketchikan	AK	55.352	-131.685	21
333	AK-WAC-99826	Gustavus	AK	58.454	-135.892	0
334	AK-ZGU-99826	Gustavus	AK	58.522	-136.124	4.9
335	AK-WAA-99508	Anchorage	AK	61.189	-149.803	66.8
336	AK-WAX-99501	Anchorage	AK	61.211	-149.854	35.4
337	AK-WAI-99775	Fairbanks	AK	64.859	-147.852	190.2
338	AK-WAN-99775	Fairbanks	AK	64.859	-147.826	173.7
339	AK-WAZ-99701	Fairbanks	AK	64.814	-147.771	134.1
340	HI-WHF-96718	Kiluaea	HI	19.394	-155.298	1115.3
341	HI-WHI-96768	Haleakala	HI	20.768	-156.245	2078.5
342	HI-WHK-96732	Kahului	HI	20.888	-156.469	0.9

Appendix A. Site Location Information for Tap Water Samples—continued

[AK, Alaska; AL, Alabama; AR, Arkansas; AZ, Arizona; CA, California; CO, Colorado; CT, Connecticut; DC, District of Columbia; DE, Delaware; FL, Florida; GA, Georgia; GU, Guam; HI, Hawaii; IA, Iowa; ID, Idaho; IL, Illinois; IN, Indiana; KS, Kansas; KY, Kentucky; LA, Louisiana; MA, Massachusetts; MD, Maryland; ME, Maine; MI, Michigan; MN, Minnesota; MO, Missouri; MS, Mississippi; MT, Montana; NC, North Carolina; ND, North Dakota; NE, Nebraska; NH, New Hampshire; NJ, New Jersey; NM, New Mexico; NV, Nevada; NY, New York; OH, Ohio; OK, Oklahoma; OR, Oregon; PA, Pennsylvania; PR, Puerto Rico; RI, Rhode Island; SC, South Carolina; SD, South Dakota; TN, Tennessee; TX, Texas; UT, Utah; VA, Virginia; VI, Virgin Islands; VT, Vermont; WA, Washington; WI, Wisconsin; WV, West Virginia; WY, Wyoming, m, meter]

Site no.	Site name	City	State	Latitude	Longitude	Elevation (m)
343	HI-WHM-96732	Kahului	HI	20.889	−156.478	11.9
344	HI-WHB-96813	Honolulu	HI	21.305	−157.863	0.9
345	HI-WHD-96813	Honolulu	HI	21.298	−157.862	0.9
346	PR-APB-00965	Guaynabo	PR	18.426	−66.115	3
347	VI-APA-00830	St John	VI	18.333	−64.793	4.9
348	GU-WGS-96929	Dededo	GU	13.589	144.868	148
349	GU-WGF-96929	Dededo	GU	13.653	144.862	8

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-94347	ME-AFB-04469	1	8/15/2007 10:37	-69.0	-10.06
W-94274	ME-AFC-04469	2	8/15/2007 8:00	-70.0	-10.03
W-94273	ME-AFD-04469	3	8/15/2007 15:00	-69.9	-9.98
W-94271	ME-AFA-04330	4	8/15/2007 8:20	-60.9	-9.33
W-94266	MA-AGA-01532	5	8/15/2007 10:30	-46.5	-6.74
W-94270	NH-ANH-03275	6	8/15/2007 7:15	-61.0	-9.46
W-94277	CT-AJB-06108	7	8/15/2007 8:00	-51.6	-7.74
W-94265	MA-AGB-01376	8	8/15/2007 10:37	-56.7	-8.79
W-94264	MA-AGG-01003	9	8/15/2007 8:30	-51.1	-7.70
W-94267	MA-AGD-02543	10	8/15/2007 14:30	-33.0	-4.46
W-94612	MA-AGK-02139	11	8/16/2007 7:05	-44.0	-6.43
W-94269	RI-AIA-02908	13	8/15/2007 10:07	-44.7	-7.08
W-94268	RI-AIB-02882	15	8/15/2007 11:00	-45.1	-7.27
W-94278	CT-AJC-06269	16	8/15/2007 8:20	-50.2	-7.74
W-94275	VT-ADB-05405	17	8/15/2007 11:00	-71.8	-10.19
W-94276	VT-ADA-05602	18	8/15/2007 9:40	-73.7	-10.55
W-94596	VT-ADC-05602	19	8/15/2007 7:30	-76.3	-11.01
W-94282	NY-AHA-12180	20	8/15/2007 8:15	-62.4	-8.95
W-94615	NY-AHH-12561	21	8/15/2007 10:02	-55.5	-8.83
W-94279	NJ-AKB-08540	22	8/15/2007 9:40	-33.0	-5.71
W-94272	NY-NYC-11374	23	8/15/2007 22:00	-61.3	-9.22
W-94281	NY-AHO-11727	24	8/15/2007 7:56	-44.1	-7.45
W-94298	DE-AMA-19901	25	8/15/2007 9:30	-35.1	-6.22
W-94280	NJ-AKA-08628	26	8/15/2007 9:30	-48.1	-7.47
W-94297	PA-ALP-19341	27	8/15/2007 8:50	-43.5	-7.10
W-94296	PA-ZPH-19143	28	8/15/2007 8:00	-41.8	-6.55
W-94295	PA-ALM-18337	29	8/15/2007 8:45	-55.8	-8.88
W-94290	PA-ALC-16802	30	8/15/2007 8:35	-58.7	-9.19
W-94294	PA-ALB-17701	31	8/15/2007 6:45	-44.8	-6.84
W-94291	PA-ALA-16901	32	8/15/2007 8:50	-61.4	-9.63
W-94293	PA-ALH-17070	33	8/15/2007 12:00	-50.1	-8.04
W-94306	MD-ACJ-21403	34	8/15/2007 16:30	-43.3	-7.31
W-94305	MD-ACN-21228	35	8/15/2007 13:05	-44.2	-7.11
W-94303	MD-ACC-20708	36	8/15/2007 8:57	-39.6	-6.31
W-94304	MD-ACB-20708	37	8/15/2007 7:21	-40.0	-6.30
W-94301	DC-ABB-20240	38	8/15/2007 15:45	-41.7	-6.06
W-94302	DC-ABC-20560	39	8/15/2007 7:45	-42.2	-6.22

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-94299	DC-ABE-20523	40	8/15/2007 12:35	-41.7	-6.13
W-94307	MD-ACL-21532	41	8/15/2007 8:53	-53.3	-7.91
W-94613	MD-ACZ-20705	42	8/15/2007 8:30	-44.9	-7.40
W-94300	VA-AAA-20192	43	8/15/2007 9:57	-40.3	-5.92
W-94314	WV-ANA-25430	44	8/15/2007 9:30	-47.9	-7.37
W-94309	VA-AAN-22904	45	8/15/2007 9:00	-42.0	-6.88
W-94606	VA-AAP-22903	46	8/15/2007 11:30	-42.5	-6.97
W-94308	VA-AAV-22446	47	8/15/2007 13:30	-38.2	-6.67
W-94310	VA-AAR-23228	48	8/15/2007 8:04	-34.5	-5.26
W-94316	NC-AVB-27607	49	8/15/2007 7:45	-16.8	-2.62
W-94538	NC-AVD-27695	50	8/15/2007 11:00	-16.9	-2.64
W-94318	NC-AVI-28742	51	8/20/2007 16:30	-21.4	-4.10
W-94324	SC-AZC-29527	52	8/15/2007 8:50	-23.4	-3.89
W-94319	NC-AVG-28217	53	8/15/2007 11:30	-21.5	-3.36
W-94323	SC-AZE-29482	54	8/15/2007 8:40	-16.7	-3.02
W-94322	SC-AZF-29405	55	8/15/2007 15:00	-16.6	-2.95
W-94321	SC-AZA-29210	56	8/15/2007 8:00	-15.1	-2.24
W-94333	GA-AYB-31407	57	8/8/2007 16:00	-17.8	-3.00
W-94325	SC-AZG-29631	58	8/15/2007 6:30	-15.1	-2.61
W-94331	GA-AYA-30602	59	8/15/2007 11:30	-19.8	-3.34
W-94332	GA-AYC-30602	60	8/15/2007 8:10	-13.9	-2.23
W-94338	FL-BAE-32605	61	8/15/2007 8:15	-10.2	-2.22
W-94339	FL-BAP-32611	62	8/15/2007 9:45	-9.1	-2.14
W-94341	FL-BAL-32826	63	8/15/2007 7:00	-7.4	-1.46
W-94344	FL-AAF-33314	64	8/15/2007 15:45	-11.9	-2.42
W-94345	FL-BAM-33315	65	8/15/2007 8:17	-0.5	-0.39
W-94351	FL-BAN-34141	66	8/15/2007 9:15	-3.1	-1.01
W-94350	FL-BAF-33907	67	8/20/2007 14:30	-3.8	-1.48
W-94343	FL-BAI-33146	68	8/15/2007 8:00	-4.2	-1.00
W-94342	FL-BAJ-33034	69	8/20/2007 10:15	-11.9	-2.25
W-94348	FL-BAB-33612	70	8/15/2007 9:30	-10.2	-2.10
W-94349	FL-AFP-33701	71	8/15/2007 17:30	-7.4	-1.53
W-94340	FL-BAC-32653	72	8/15/2007 10:15	-18.3	-3.66
W-94335	GA-AYF-31793	73	8/21/2007 11:00	-19.3	-3.93
W-94336	FL-BAA-32310	74	8/15/2007 8:00	-11.8	-2.20
W-94334	GA-AYH-31702	75	8/15/2007 6:24	-17.7	-3.49
W-94330	GA-AYE-30360	76	8/15/2007 7:05	-20.0	-3.61

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-94327	GA-AYN-30092	77	8/15/2007 8:45	-20.1	-3.65
W-94337	FL-BAO-32561	78	8/15/2007 7:43	-19.7	-4.03
W-94354	AL-AXC-36849	79	8/15/2007 8:55	-10.7	-1.62
W-94353	AL-AXB-36117	80	8/15/2007 9:00	-14.1	-2.70
W-94352	AL-AXE-35401	81	8/15/2007 7:15	-18.8	-3.70
W-94366	MS-AWD-39762	82	8/15/2007 7:00	-27.7	-5.15
W-94365	MS-AWA-39529	83	8/15/2007 9:30	-23.6	-4.55
W-94364	MS-AWC-39208	84	8/15/2007 10:05	-27.1	-4.91
W-94397	WI-ARE-54806	85	8/15/2007 10:00	-65.0	-8.58
W-94381	MI-BDE-49829	86	8/15/2007 11:30	-44.8	-5.88
W-94375	IN-AQA-46304	87	8/15/2007 12:15	-56.1	-8.85
W-94388	WI-ARQ-53211	88	8/15/2007 17:10	-43.8	-5.81
W-94377	MI-BDL-48911	89	8/15/2007 9:00	-59.9	-9.07
W-94379	MI-BDG-49738	90	8/15/2007 8:35	-76.5	-11.34
W-94380	MI-BDC-49759	91	8/15/2007 9:00	-80.1	-11.67
W-94376	MI-BDA-48105	92	8/15/2007 1:52	-50.4	-6.85
W-94431	MI-ZDT-48230	93	8/15/2007 8:45	-52.5	-6.90
W-94373	OH-AOC-44870	94	8/15/2007 7:30	-49.4	-6.67
W-94524	OH-ZCL-44106	95	8/15/2007 10:30	-49.6	-6.48
W-94283	NY-AHD-13045	96	8/15/2007 7:55	-72.5	-10.84
W-94285	NY-AHG-13210	97	9/7/2007 10:45	-56.8	-7.90
W-94284	NY-AHB-13126	98	8/15/2007 8:30	-49.8	-6.47
W-94287	NY-AHC-14850	99	8/15/2007 10:50	-60.8	-8.72
W-94288	NY-AHE-14853	100	8/18/2007 13:00	-58.5	-8.69
W-94286	NY-AHF-13676	101	8/15/2007 7:15	-72.4	-10.16
W-94315	WV-ANL-26506	102	8/9/2007 12:00	-44.1	-7.02
W-94289	PA-ALI-15205	103	8/15/2007 8:00	-48.2	-7.45
W-94372	OH-AOB-44663	104	8/16/2007 7:00	-52.2	-8.15
W-94311	VA-AAE-24061	105	8/15/2007 11:16	-38.9	-6.21
W-94313	WV-ANC-25301	106	8/15/2007 12:55	-41.1	-6.38
W-94371	OH-AOA-43229	107	8/15/2007 9:00	-39.8	-6.20
W-94370	OH-AOD-43210	108	8/9/2007 10:35	-40.8	-6.31
W-94426	IL-ASC-61801	109	8/16/2007 10:45	-41.2	-6.83
W-94374	IN-AQC-46278	110	8/15/2007 9:00	-33.4	-5.04
W-94368	KY-ATJ-40769	111	8/15/2007 8:30	-31.1	-5.12
W-94355	TN-AUC-37211	112	8/15/2007 16:30	-26.2	-4.16
W-94360	TN-AUF-38505	113	8/15/2007 13:00	-24.1	-4.06

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-94367	KY-ATL-40299	114	8/15/2007 12:30	-43.8	-6.65
W-94369	KY-ATG-42001	115	8/15/2007 8:15	-26.1	-4.17
W-94320	NC-AVA-28704	116	8/15/2007 12:15	-30.7	-5.81
W-94358	TN-AUD-37921	117	8/22/2007 13:30	-33.9	-5.45
W-94357	TN-AUE-37996	118	8/15/2007 10:30	-33.6	-5.51
W-94356	TN-AUA-37738	119	8/15/2007 9:30	-42.2	-6.78
W-94312	VA-JAL-24354	120	8/15/2007 7:30	-52.8	-8.17
W-94402	MN-BCF-55455	121	8/15/2007 11:25	-50.6	-6.18
W-94401	MN-BCC-55112	122	8/15/2007 10:30	-53.8	-7.38
W-94399	MN-BCH-55108	123	8/15/2007 12:49	-49.1	-6.17
W-94400	MN-BCJ-55108	124	8/15/2007 9:41	-49.2	-6.14
W-94396	WI-ARF-54603	125	8/15/2007 7:45	-58.9	-8.81
W-94398	WI-ARP-54868	126	8/16/2007 14:00	-65.4	-9.47
W-94394	WI-ARB-54452	127	8/15/2007 8:20	-65.1	-9.94
W-94395	WI-ARI-54481	128	8/16/2007 9:00	-64.3	-9.50
W-94387	IA-KJC-52240	129	8/15/2007 14:00	-41.1	-6.47
W-94384	IA-KJE-50011	130	8/15/2007 16:00	-47.0	-7.08
W-94425	IL-ASD-60115	131	8/15/2007 15:55	-49.8	-7.79
W-94390	WI-ARA-53562	132	8/15/2007 6:45	-56.8	-8.72
W-94392	WI-ARC-53711	133	8/15/2007 10:25	-57.8	-8.89
W-94393	WI-ARG-53711	134	8/15/2007 7:20	-58.9	-8.96
W-94317	WI-ARJ-54706	135	8/15/2007 12:15	-57.9	-8.56
W-94389	WI-ARM-53562	136	8/16/2007 7:00	-56.2	-8.67
W-94385	IA-KJB-50501	137	8/15/2007 6:08	-53.9	-8.10
W-94328	IL-ZZZ-60607	138	8/15/2007 10:50	-43.5	-5.72
W-94427	IL-ASB-62864	139	8/15/2007 8:27	-26.4	-3.68
W-94434	MO-KRD-65401	140	8/15/2007 9:45	-40.1	-6.75
W-94405	MO-KRJ-63103	141	8/15/2007 9:40	-50.0	-6.61
W-94359	TN-AUB-38111	142	8/15/2007 13:30	-28.6	-5.17
W-94617	TN-AUG-38152	143	8/15/2007 8:46	-30.2	-5.17
W-94618	TN-AUH-38152	144	8/15/2007 12:00	-29.1	-5.20
W-94447	LA-KFK-71270	145	8/15/2007 9:00	-26.4	-5.08
W-94361	MS-AWB-39180	146	8/15/2007 11:00	-23.0	-4.29
W-94362	MS-AWE-39183	147	8/15/2007 6:30	-25.1	-4.73
W-94445	LA-KFB-70816	148	8/15/2007 11:30	-21.0	-4.40
W-94446	LA-KFC-70803	149	8/15/2007 9:05	-22.7	-4.56
W-94444	LA-KFD-70803	150	8/15/2007 9:00	-23.9	-4.60

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-94443	LA-KFA-70506	151	8/15/2007 8:35	-20.7	-4.07
W-94600	LA-KFZ-70148	152	8/16/2007 9:20	-32.3	-4.90
W-94611	LA-KFE-70445	153	8/15/2007 13:09	-22.3	-4.47
W-94412	ND-KLC-58203	154	8/15/2007 8:30	-49.8	-5.62
W-94419	MT-KKA-59717	155	8/15/2007 8:30	-141.7	-18.49
W-94418	MT-KKG-59717	156	8/16/2007 10:00	-140.3	-18.57
W-94420	MT-KKO-59717	157	8/15/2007 10:45	-139.1	-18.52
W-94417	MT-KKB-59601	158	8/15/2007 9:00	-132.7	-17.05
W-94416	MT-KKE-59223	159	8/20/2007 9:15	-122.5	-15.08
W-94415	MT-KKD-59102	160	8/15/2007 8:00	-128.4	-16.47
W-94480	WY-KOC-82501	161	8/15/2007 8:45	-126.0	-16.29
W-94411	SD-KMC-57702	162	8/15/2007 14:40	-103.7	-13.28
W-94414	ND-KLB-58501	163	8/15/2007 8:00	-117.2	-14.58
W-94410	SD-KMB-57501	164	8/15/2007 8:45	-108.0	-13.20
W-94413	ND-KLA-58401	165	8/15/2007 9:00	-107.4	-14.27
W-94409	SD-KMF-57350	166	8/15/2007 9:00	-103.6	-12.97
W-94406	SD-KMD-57007	167	8/16/2007 16:30	-72.0	-10.21
W-94408	SD-KMN-57198	168	8/15/2007 9:00	-67.5	-9.31
W-94407	SD-KMA-57078	169	8/15/2007 18:30	-101.7	-12.67
W-94442	NE-KDD-69101	170	8/16/2007 15:30	-91.6	-11.55
W-94479	WY-KOB-82071	171	8/15/2007 8:00	-125.6	-16.62
W-94481	WY-KOP-82604	172	8/15/2007 10:10	-116.0	-14.56
W-94470	CO-KDG-80303	173	8/15/2007 10:29	-121.6	-16.44
W-94469	CO-KAH-80225	174	8/15/2007 7:45	-122.8	-16.48
W-94608	CO-KAN-80227	175	8/19/2007 16:04	-107.1	-14.08
W-94609	CO-KCI-80401	176	8/15/2007 8:05	-118.7	-16.25
W-94471	CO-KZW-80403	177	8/15/2007 7:51	-124.1	-16.85
W-94473	CO-KBA-80526	178	8/17/2007 10:11	-115.9	-15.41
W-94472	CO-KBB-80523	179	8/15/2007 14:38	-116.8	-15.84
W-94527	CO-KBF-80523	180	8/16/2007 12:15	-115.4	-15.41
W-94478	WY-KOL-82001	181	8/15/2007 7:04	-112.1	-14.33
W-94439	NE-KDB-68512	182	8/15/2007 10:00	-52.7	-6.97
W-94441	NE-KDC-68862	183	8/15/2007 9:00	-66.1	-9.22
W-94386	IA-KJA-51502	184	8/15/2007 7:30	-78.8	-9.67
W-94438	KS-KQA-67601	185	8/15/2007 7:45	-40.1	-5.27
W-94435	KS-KQD-66049	186	8/15/2007 7:20	-19.7	-3.11
W-94436	KS-KQL-66506	187	8/15/2007 10:35	-34.5	-5.34

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-94430	MO-KRG-65201	188	8/15/2007 8:15	-43.9	-7.05
W-94942	MO-KRI-65211	190	8/15/2007 13:29	-43.3	-6.98
W-94433	MO-KRH-65211	191	8/15/2007 9:00	-43.3	-6.98
W-94429	MO-KRA-64086	192	8/15/2007 13:33	-61.0	-8.15
W-94450	AR-AEW-72701	193	8/15/2007 11:15	-27.5	-4.31
W-94452	AR-KEB-72701	194	8/15/2007 9:02	-27.8	-4.31
W-94451	AR-KEF-72701	195	8/15/2007 13:21	-27.9	-4.36
W-94474	CO-KBO-81003	196	8/15/2007 9:00	-108.3	-14.52
W-94948	KS-KQB-67209	197	8/15/2007 14:20	-26.4	-3.78
W-94455	OK-KHC-74078	198	8/15/2007 8:30	-29.8	-4.72
W-94456	OK-KHB-74133	199	8/15/2007 9:00	-22.2	-4.03
W-94453	OK-KHA-73116	200	8/17/2007 9:00	-4.7	-0.53
W-94947	OK-KHH-73801	201	8/15/2007 14:40	-43.1	-6.64
W-94448	AR-AEU-72201	202	8/15/2007 7:00	-13.9	-2.26
W-94449	AR-KED-72211	203	8/15/2007 8:45	-13.9	-1.68
W-94458	TX-KIL-76308	204	8/15/2007 14:35	-1.4	+0.01
W-94620	TX-KII-75202	205	8/15/2007 9:30	-11.8	-1.87
W-94457	TX-KIR-76133	206	8/15/2007 8:00	-10.5	-1.90
W-94559	TX-ZHS-77040	207	8/15/2007 6:00	-7.8	-1.84
W-94460	TX-KIG-77385	208	8/15/2007 6:44	-24.0	-4.52
W-94466	TX-KIM-79409	209	8/15/2007 7:30	-30.3	-4.21
W-94461	TX-KIE-77843	210	8/15/2007 8:40	-25.3	-4.88
W-94459	TX-KIJ-76903	211	8/15/2007 9:55	+2.2	+1.24
W-94465	TX-KIA-78754	212	8/15/2007 12:00	-9.9	-2.02
W-94462	TX-KIK-78249	213	8/14/2007 8:40	-22.7	-3.92
W-94619	TX-KIH-78412	214	8/15/2007 9:45	-10.5	-1.86
W-94463	TX-KIS-78412	215	8/15/2007 9:00	-10.0	-1.87
W-94506	NM-KGA-87117	216	8/15/2007 9:00	-73.0	-9.99
W-94504	NM-KGI-87109	217	8/15/2007 11:30	-93.1	-12.62
W-94507	NM-KGH-87544	218	8/15/2007 7:45	-75.1	-10.79
W-94509	NM-KGL-88003	219	8/15/2007 12:25	-88.8	-11.58
W-94467	TX-KIP-79935	220	8/15/2007 11:30	-69.2	-8.29
W-94510	NM-KGC-88220	221	8/15/2007 6:20	-52.7	-7.90
W-94476	CO-KBG-81506	222	8/15/2007 12:42	-98.6	-12.98
W-94494	UT-KNB-84532	223	8/15/2007 7:30	-107.9	-15.04
W-94495	UT-KND-84532	224	8/15/2007 9:00	-108.8	-15.10
W-94477	CO-KBK-81641	225	8/15/2007 13:10	-126.0	-16.96

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-94475	CO-KBI-81303	226	8/15/2007 7:00	-84.7	-12.27
W-94512	NV-WNV-89074	227	8/15/2007 15:00	-98.9	-12.10
W-94621	UT-KNE-84741	228	8/15/2007 6:30	-95.3	-12.81
W-94502	AZ-WZA-86001	229	8/14/2007 11:40	-86.4	-12.21
W-94503	AZ-WZI-86011	230	8/15/2007 12:25	-79.5	-10.75
W-94498	AZ-WZX-85364	231	8/15/2007 7:55	-94.4	-11.54
W-94508	AZ-ZCH-85249	232	8/15/2007 13:15	-65.8	-8.77
W-94499	AZ-WZE-85719	233	8/15/2007 13:30	-66.5	-8.80
W-94501	AZ-WZH-85745	234	8/15/2007 8:24	-68.2	-8.78
W-94500	AZ-WZJ-85721	235	8/14/2007 12:08	-65.9	-8.80
W-94497	AZ-WZG-85281	236	8/15/2007 14:00	-62.4	-7.66
W-94404	AZ-ZPX-85018	237	8/15/2007 7:30	-60.7	-7.60
W-94493	UT-KNA-84322	239	8/15/2007 11:08	-126.9	-17.04
W-94492	UT-KNJ-84119	240	8/15/2007 11:00	-117.9	-15.34
W-94496	UT-KNM-84720	241	8/15/2007 6:15	-102.9	-14.19
W-94516	NV-WNE-89801	242	8/15/2007 10:00	-131.5	-16.58
W-94557	CA-WBJ-96140	243	8/15/2007 8:00	-108.7	-14.96
W-94943	NV-XNB-89557	244	8/15/2007 13:45	-71.6	-7.96
W-94614	NV-ZDQ-89502	245	8/10/2007 9:37	-70.8	-8.06
W-94515	NV-WNC-89701	246	8/15/2007 10:00	-118.1	-15.29
W-94491	ID-WIS-83854	247	8/15/2007 6:30	-110.1	-14.74
W-94423	MT-KKC-59903	248	8/15/2007 7:00	-122.8	-16.25
W-94424	MT-KKF-59936	249	8/16/2007 8:11	-123.9	-16.99
W-94421	MT-KKI-59801	250	8/15/2007 11:30	-129.5	-17.12
W-94592	WA-WWP-99201	251	8/15/2007 8:40	-109.1	-14.80
W-94593	WA-WWR-99201	252	8/15/2007 8:15	-109.5	-14.70
W-94594	WA-WWH-99301	253	8/15/2007 9:30	-128.8	-17.02
W-94483	ID-WIG-83209	254	8/15/2007 11:42	-126.6	-16.30
W-94486	ID-WII-83403	255	8/14/2007 15:37	-132.3	-17.27
W-94487	ID-WIK-83402	256	8/15/2007 11:05	-131.3	-17.35
W-94601	ID-WIZ-83215	257	8/14/2007 13:45	-134.9	-17.56
W-94484	ID-WIT-83301	258	8/15/2007 14:55	-128.6	-16.63
W-94482	WY-KOA-83001	259	8/17/2007 13:48	-139.3	-18.67
W-94597	WY-KOD-83001	260	8/16/2007 14:30	-138.2	-18.35
W-94488	ID-WIA-83702	261	8/15/2007 8:58	-124.8	-16.49
W-94489	ID-WID-83706	262	8/15/2007 8:00	-127.4	-16.37
W-94490	ID-WIB-83844	263	8/15/2007 8:00	-129.0	-16.91

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-94485	ID-WIF-83843	264	8/15/2007 8:05	-125.2	-16.22
W-94590	WA-WWL-98605	265	8/15/2007 7:30	-80.8	-11.44
W-94591	WA-WWA-98683	266	8/8/2007 13:00	-68.6	-9.81
W-94572	OR-WOB-97331	267	8/15/2007 12:20	-69.7	-10.12
W-94575	OR-WOR-97331	268	8/15/2007 21:00	-81.4	-11.55
W-94571	OR-WOH-97330	269	8/15/2007 8:10	-81.2	-11.53
W-94950	OR-WOD-97331	270	8/17/2007 9:06	-81.0	-11.31
W-94944	OR-XOB-97331	271	8/16/2007 15:30	-82.2	-11.54
W-94570	OR-WOA-97201	272	8/15/2007 8:05	-75.8	-10.82
W-94565	OR-WOJ-97204	273	8/15/2007 10:05	-71.5	-10.39
W-94577	OR-WOM-97502	274	8/15/2007 12:00	-88.8	-12.57
W-94576	OR-WOI-97365	275	8/15/2007 13:14	-41.4	-6.02
W-94588	WA-WWC-98362	276	8/15/2007 12:30	-86.9	-12.32
W-94587	WA-WWI-98358	277	8/15/2007 8:50	-79.2	-11.03
W-94583	WA-WUW-98195	278	8/15/2007 9:35	-74.0	-10.43
W-94579	WA-WWB-98104	279	8/15/2007 10:25	-74.2	-10.49
W-94584	WA-WWE-98195	280	8/15/2007 8:10	-75.2	-10.46
W-94580	WA-WWF-98115	281	8/15/2007 9:15	-75.2	-10.59
W-94582	WA-WWN-98195	282	8/15/2007 9:30	-74.5	-10.41
W-94589	WA-WWT-98402	283	8/15/2007 16:45	-81.9	-11.57
W-94946	WA-ZET-89499	284	8/15/2007 12:45	-73.9	-9.87
W-94586	WA-WWQ-98284	285	8/15/2007 7:50	-74.8	-10.64
W-94548	CA-WBQ-95521	286	8/15/2007 15:10	-55.8	-8.10
W-94546	CA-WCE-95501	287	8/15/2007 8:30	-55.7	-8.07
W-94547	CA-WCP-95521	288	8/15/2007 9:15	-54.5	-7.99
W-94545	CA-WCX-95482	289	8/15/2007 12:00	-52.0	-7.58
W-94578	OR-WOF-97603	290	8/15/2007 7:30	-110.5	-14.84
W-94555	CA-WBS-95826	291	8/15/2007 12:50	-75.1	-10.59
W-94554	CA-WCA-95819	292	8/15/2007 9:15	-75.1	-10.59
W-94553	CA-WEA-95819	293	8/10/2007 10:20	-75.0	-10.52
W-94556	CA-WCL-96003	294	8/15/2007 13:05	-83.6	-11.72
W-94550	CA-WCH-95620	295	8/15/2007 9:15	-40.8	-5.75
W-94549	CA-WCJ-95616	296	8/15/2007 11:40	-55.3	-7.95
W-94529	CA-WBZ-93271	297	8/15/2007 8:02	-68.3	-9.92
W-94544	CA-WBY-95318	298	8/15/2007 12:30	-86.5	-11.80
W-94949	CA-WSN-95389	299	8/15/2007 15:00	-82.9	-10.86
W-94539	CA-WMX-94545	300	8/15/2007 7:05	-99.3	-13.51

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-94541	CA-WCO-94956	301	8/15/2007 8:00	-28.0	-4.45
W-94391	CA-ZSF-94114	302	8/15/2007 16:45	-73.4	-9.95
W-94537	CA-WBM-94025	303	8/16/2007 15:15	-97.3	-13.50
W-94536	CA-WMR-94025	304	8/15/2007 15:35	-98.8	-13.46
W-94951	CA-XBM-94025	305	8/15/2007 11:00	-98.7	-13.42
W-94607	CA-ZSJ-95112	306	8/15/2007 20:30	-48.1	-6.88
W-94540	CA-WBW-94592	307	8/15/2007 10:33	-69.0	-9.04
W-94535	CA-WCS-93933	308	8/8/2007 13:30	-44.2	-6.81
W-94530	CA-WDC-93451	309	8/20/2007 13:50	-46.9	-6.93
W-94552	CA-ZBB-93933	310	8/15/2007 12:00	-44.4	-6.68
W-94528	CA-WEG-93106	311	8/15/2007 15:30	-31.7	-4.18
W-94532	CA-WNS-93455	312	8/15/2007 7:10	-63.7	-8.93
W-94542	CA-WAP-95060	313	8/15/2007 8:45	-31.3	-5.21
W-94543	CA-WCV-95060	314	8/30/2007 6:15	-32.2	-5.23
W-94517	CA-WNK-91106	315	8/15/2007 12:30	-63.4	-8.48
W-94531	CA-ZLA-90024	316	8/15/2007 15:54	-79.2	-10.30
W-94526	CA-WDA-92602	317	8/15/2007 9:36	-56.3	-8.39
W-94945	CA-WEC-92521	318	8/16/2007 15:30	-61.3	-8.94
W-94525	CA-WBU-92553	319	8/15/2007 9:10	-69.5	-9.21
W-94518	CA-WAY-92011	320	8/15/2007 9:12	-83.8	-10.31
W-94521	CA-WCG-92101	321	8/15/2007 6:50	-79.3	-9.68
W-94519	CA-WCK-92064	322	8/15/2007 16:00	-78.6	-9.40
W-94520	CA-WED-92037	323	8/15/2007 9:45	-83.1	-10.13
W-94533	CA-WEF-93514	324	8/15/2007 15:30	-122.4	-16.31
W-94534	CA-WAQ-93546	325	8/15/2007 15:30	-110.3	-15.14
W-94523	CA-WBP-92308	326	8/15/2007 6:55	-73.6	-10.32
W-94511	NV-WNM-89023	327	8/15/2007 9:30	-103.2	-12.90
W-94522	CA-WSS-92253	328	8/15/2007 16:00	-68.3	-9.98
W-94604	AK-WBK-99801	329	8/15/2007 8:02	-108.5	-14.81
W-94605	AK-ZAK-99801	330	8/16/2007 9:15	-93.9	-12.75
W-94551	AK-ZJU-99801	331	8/16/2007 17:00	-110.6	-15.13
W-94573	AK-ZKN-99901	332	8/18/2007 7:45	-82.2	-11.47
W-94581	AK-WAC-99826	333	8/17/2007 14:25	-88.4	-12.55
W-94585	AK-ZGU-99826	334	8/17/2007 17:20	-101.7	-13.72
W-94598	AK-WAA-99508	335	8/15/2007 6:45	-142.8	-18.79
W-94595	AK-WAX-99501	336	8/15/2007 10:30	-147.7	-19.42
W-94602	AK-WAI-99775	337	8/15/2007 8:30	-153.4	-19.52

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-94603	AK-WAN-99775	338	8/15/2007 15:15	-153.3	-19.57
W-94599	AK-WAZ-99701	339	8/15/2007 8:08	-162.1	-20.75
W-94558	HI-WHF-96718	340	8/15/2007 11:15	-3.0	-1.31
W-94563	HI-WHI-96768	341	8/15/2007 8:47	-22.6	-4.37
W-94560	HI-WHK-96732	342	8/15/2007 7:30	-12.9	-3.68
W-94561	HI-WHM-96732	343	8/15/2007 8:12	-12.9	-3.59
W-94567	HI-WHB-96813	344	8/15/2007 10:30	-10.6	-3.19
W-94564	HI-WHD-96813	345	8/15/2007 12:00	-10.8	-3.16
W-94263	PR-APB-00965	346	8/15/2007 9:00	-7.5	-2.22
W-94262	VI-APA-00830	347	8/15/2007 8:30	-4.2	-1.77
W-94568	GU-WGS-96929	348	8/15/2007 8:30	-31.5	-5.48
W-94569	GU-WGF-96929	349	8/15/2007 10:00	-40.6	-6.63
W-98703	ME-AFB-04469	1	2/20/2008 8:25	-68.7	-9.90
W-98704	ME-AFC-04469	2	2/19/2008 14:30	-68.1	-9.92
W-98705	ME-AFD-04469	3	2/20/2008 10:40	-68.2	-9.88
W-98702	ME-AFA-04330	4	2/20/2008 16:00	-61.9	-9.36
W-98697	MA-AGA-01532	5	2/20/2008 15:00	-44.1	-6.51
W-98701	NH-ANH-03275	6	2/20/2008 12:40	-61.3	-9.42
W-98709	CT-AJB-06108	7	2/20/2008 9:30	-48.5	-7.34
W-98696	MA-AGB-01376	8	2/20/2008 8:04	-56.2	-8.86
W-98695	MA-AGG-01003	9	2/21/2008 8:00	-55.5	-8.80
W-99098	MA-AGD-02543	10	2/20/2008 13:20	-34.5	-5.31
W-98698	MA-AGK-02139	11	2/20/2008 17:10	-43.6	-6.35
W-98700	RI-AIA-02865	12	2/20/2008 14:55	-39.6	-5.98
W-99118	RI-ZPR-02912	14	2/21/2008 16:30	-40.0	-6.05
W-98699	RI-AIB-02882	15	2/20/2008 11:15	-42.4	-7.08
W-98710	CT-AJC-06269	16	2/20/2008 7:30	-46.2	-7.10
W-98706	VT-ADB-05405	17	2/21/2008 15:45	-71.5	-10.08
W-98707	VT-ADA-05602	18	2/20/2008 14:10	-71.8	-10.17
W-98708	VT-ADC-05602	19	2/20/2008 0:00	-75.1	-11.07
W-98713	NY-AHA-12180	20	2/20/2008 16:30	-60.2	-8.84
W-98714	NY-AHH-12561	21	2/20/2008 7:25	-54.8	-8.75
W-99099	NJ-AKB-08540	22	2/20/2008 16:00	-36.1	-6.61
W-99100	NY-NYC-11374	23	2/20/2008 17:05	-57.2	-8.76
W-98712	NY-AHO-11727	24	2/20/2008 13:00	-45.6	-7.60
W-98821	DE-AMA-19901	25	2/20/2008 8:05	-36.2	-6.24
W-98711	NJ-AKA-08628	26	2/20/2008 8:30	-52.6	-8.36

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-98820	PA-ALP-19341	27	2/20/2008 11:30	-44.7	-7.55
W-98819	PA-ZPH-19143	28	2/20/2008 21:00	-44.5	-7.59
W-98818	PA-ALM-18337	29	2/20/2008 9:00	-55.2	-8.79
W-98814	PA-ALC-16802	30	2/20/2008 9:30	-59.1	-9.15
W-98817	PA-ALB-17701	31	2/20/2008 7:00	-54.0	-8.73
W-98815	PA-ALA-16901	32	2/20/2008 10:00	-62.1	-9.57
W-98816	PA-ALH-17070	33	2/20/2008 10:40	-48.3	-7.91
W-98829	MD-ACJ-21403	34	2/20/2008 15:47	-43.7	-7.21
W-98828	MD-ACN-21228	35	2/20/2008 7:25	-39.7	-6.24
W-98827	MD-ACC-20708	36	2/20/2008 21:03	-38.6	-6.17
W-98826	MD-ACB-20708	37	2/20/2008 12:16	-38.7	-6.13
W-98822	DC-ABB-20240	38	2/21/2008 17:00	-45.8	-7.55
W-98824	DC-ABC-20560	39	2/20/2008 13:15	-45.4	-7.52
W-98823	DC-ABE-20523	40	2/20/2008 19:45	-44.9	-7.51
W-98830	MD-ACL-21532	41	2/20/2008 9:30	-58.3	-9.14
W-98825	MD-ACZ-20705	42	2/27/2008 12:30	-45.3	-7.49
W-99102	VA-AAA-20192	43	2/20/2008 11:00	-49.2	-7.81
W-98838	WV-ANA-25430	44	2/22/2008 7:22	-47.3	-7.57
W-98833	VA-AAN-22904	45	2/20/2008 9:00	-35.8	-5.99
W-98832	VA-AAP-22903	46	2/20/2008 14:50	-35.9	-5.78
W-98831	VA-AAV-22446	47	2/20/2008 14:00	-38.1	-6.60
W-98834	VA-AAR-23228	48	2/20/2008 9:15	-38.3	-6.50
W-98840	NC-AVB-27607	49	2/20/2008 10:30	-12.5	-1.66
W-98841	NC-AVD-27695	50	2/21/2008 9:00	-12.6	-1.69
W-98844	NC-AVI-28742	51	2/21/2008 10:02	-20.9	-4.11
W-98848	SC-AZC-29527	52	2/20/2008 11:30	-24.4	-4.31
W-98842	NC-AVG-28217	53	2/20/2008 12:58	-17.9	-2.75
W-98847	SC-AZE-29482	54	2/20/2008 10:00	-12.6	-2.35
W-98846	SC-AZF-29405	55	2/20/2008 9:45	-12.6	-2.36
W-98845	SC-AZA-29210	56	2/20/2008 7:10	-12.6	-2.06
W-98854	GA-AYB-31407	57	2/20/2008 8:05	-14.7	-2.83
W-98849	SC-AZG-29631	58	2/20/2008 6:40	-16.2	-2.78
W-98852	GA-AYA-30602	59	2/20/2008 11:30	-25.7	-4.66
W-98853	GA-AYC-30602	60	2/20/2008 10:30	-24.3	-4.50
W-98861	FL-BAE-32605	61	2/20/2008 16:38	-9.4	-2.09
W-98860	FL-BAP-32611	62	2/19/2008 14:05	-10.0	-2.23
W-98862	FL-BAL-32826	63	2/20/2008 8:15	-7.5	-1.51

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-98865	FL-AAF-33314	64	2/20/2008 10:22	-12.3	-2.57
W-98866	FL-BAM-33315	65	2/25/2008 10:30	-1.6	-0.49
W-98869	FL-BAN-34141	66	2/20/2008 8:30	-3.9	-0.97
W-98868	FL-BAF-33907	67	2/20/2008 14:30	-4.4	-1.44
W-98864	FL-BAI-33146	68	2/20/2008 16:00	-3.7	-0.92
W-98863	FL-BAJ-33034	69	2/22/2008 17:00	-11.6	-2.24
W-99103	FL-BAB-33612	70	2/20/2008 0:00	-6.0	-1.68
W-98867	FL-AFP-33701	71	2/20/2008 16:20	-5.3	-1.15
W-98859	FL-BAC-32653	72	2/21/2008 17:45	-18.7	-3.56
W-98856	GA-AYF-31793	73	3/11/2008 6:20	-19.5	-3.95
W-98857	FL-BAA-32310	74	2/20/2008 14:00	-10.2	-2.02
W-98855	GA-AYH-31702	75	3/3/2008 10:25	-18.9	-3.73
W-98851	GA-AYE-30360	76	2/20/2008 15:00	-15.7	-2.78
W-98850	GA-AYN-30092	77	2/20/2008 7:45	-15.3	-2.78
W-98858	FL-BAO-32561	78	2/20/2008 8:45	-21.3	-4.09
W-98871	AL-AXC-36849	79	2/20/2008 17:00	-19.8	-3.54
W-99104	AL-AXB-36117	80	2/20/2008 15:45	-18.2	-3.54
W-98870	AL-AXE-35401	81	2/20/2008 7:00	-14.6	-2.65
W-98881	MS-AWD-39762	82	2/20/2008 8:15	-28.2	-5.26
W-98880	MS-AWA-39529	83	2/20/2008 9:00	-23.1	-4.65
W-99107	MS-AWC-39208	84	2/20/2008 13:10	-25.8	-4.88
W-98910	WI-ARE-54806	85	2/20/2008 8:06	-69.2	-8.97
W-98896	MI-BDE-49829	86	2/20/2008 14:45	-48.3	-6.40
W-98891	IN-AQA-46304	87	2/20/2008 15:35	-57.6	-8.89
W-98901	WI-ARQ-53211	88	2/21/2008 18:00	-44.2	-5.78
W-99108	MI-BDL-48911	89	2/20/2008 10:20	-59.5	-8.92
W-98894	MI-BDG-49738	90	2/20/2008 11:45	-77.3	-11.44
W-98895	MI-BDC-49759	91	2/20/2008 9:30	-81.4	-11.83
W-98892	MI-BDA-48105	92	2/22/2008 9:35	-60.7	-8.77
W-98893	MI-ZDT-48230	93	2/20/2008 22:00	-54.8	-7.20
W-98889	OH-AOC-44870	94	2/20/2008 10:15	-52.1	-7.22
W-98887	OH-ZCL-44106	95	2/21/2008 11:00	-50.6	-6.69
W-98715	NY-AHD-13045	96	2/20/2008 14:27	-71.7	-10.89
W-98810	NY-AHG-13210	97	2/20/2008 11:00	-58.3	-8.14
W-98716	NY-AHB-13126	98	2/20/2008 8:20	-48.6	-6.53
W-98812	NY-AHC-14850	99	2/20/2008 11:10	-61.0	-8.75
W-98813	NY-AHE-14853	100	2/20/2008 12:20	-67.1	-10.16

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-98811	NY-AHF-13676	101	2/20/2008 7:00	-80.5	-11.75
W-98839	WV-ANL-26506	102	2/20/2008 11:30	-46.9	-7.63
W-99101	PA-ALI-15205	103	2/20/2008 7:40	-54.2	-8.58
W-98888	OH-AOB-44663	104	2/20/2008 9:00	-52.7	-8.00
W-98835	VA-AAE-24061	105	2/20/2008 14:59	-40.4	-6.78
W-98837	WV-ANC-25301	106	2/20/2008 8:40	-43.6	-7.20
W-98886	OH-AOA-43229	107	2/20/2008 8:15	-46.2	-7.03
W-98885	OH-AOD-43210	108	2/20/2008 15:15	-46.1	-7.07
W-98934	IL-ASC-61801	109	2/20/2008 14:40	-42.6	-6.88
W-98890	IN-AQC-46278	110	2/20/2008 7:30	-39.7	-6.59
W-98883	KY-ATJ-40769	111	2/20/2008 8:04	-31.0	-5.45
W-99105	TN-AUC-37211	112	2/20/2008 11:00	-25.5	-4.60
W-98877	TN-AUF-38505	113	2/20/2008 13:00	-24.4	-4.28
W-98882	KY-ATL-40299	114	2/20/2008 11:45	-44.9	-7.19
W-98884	KY-ATG-42001	115	2/20/2008 9:00	-33.9	-5.68
W-98843	NC-AVA-28704	116	2/20/2008 16:30	-29.5	-5.75
W-98872	TN-AUD-37921	117	2/20/2008 14:03	-32.2	-5.44
W-98873	TN-AUE-37996	118	2/20/2008 14:45	-31.8	-5.31
W-99106	TN-AUA-37738	119	2/20/2008 16:20	-42.8	-6.76
W-98836	VA-JAL-24354	120	2/20/2008 11:00	-51.6	-8.24
W-98915	MN-BCF-55455	121	2/20/2008 19:00	-58.6	-7.54
W-98914	MN-BCC-55112	122	2/20/2008 8:15	-59.8	-8.34
W-98912	MN-BCH-55108	123	2/20/2008 11:15	-52.6	-6.70
W-98913	MN-BCJ-55108	124	2/20/2008 10:00	-52.5	-6.77
W-98909	WI-ARF-54603	125	2/20/2008 13:13	-60.1	-8.80
W-98911	WI-ARP-54868	126	2/20/2008 14:20	-66.6	-9.50
W-98907	WI-ARB-54452	127	2/20/2008 13:00	-67.4	-9.89
W-98908	WI-ARI-54481	128	2/20/2008 16:00	-65.6	-9.64
W-98900	IA-KJC-52240	129	2/20/2008 13:30	-46.9	-7.17
W-98897	IA-KJE-50011	130	2/20/2008 12:00	-48.7	-7.35
W-98933	IL-ASD-60115	131	2/20/2008 9:15	-50.5	-7.78
W-98903	WI-ARA-53562	132	2/20/2008 7:15	-58.0	-8.80
W-98905	WI-ARC-53711	133	2/20/2008 13:35	-58.1	-8.85
W-98906	WI-ARG-53711	134	2/20/2008 8:30	-59.5	-8.99
W-98904	WI-ARJ-54706	135	2/21/2008 12:30	-58.8	-8.79
W-98902	WI-ARM-53562	136	2/20/2008 9:00	-57.9	-8.80
W-98898	IA-KJB-50501	137	2/20/2008 6:30	-56.3	-8.37

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-99110	IL-ZZZ-60607	138	2/20/2008 15:30	-45.7	-5.96
W-98935	IL-ASB-62864	139	2/26/2008 13:25	-22.1	-2.81
W-98941	MO-KRD-65401	140	2/28/2008 9:15	-37.8	-6.35
W-98936	MO-KRJ-63103	141	3/13/2008 10:26	-65.5	-9.28
W-98874	TN-AUB-38111	142	2/20/2008 14:45	-28.6	-5.23
W-98875	TN-AUG-38152	143	2/27/2008 10:52	-27.9	-5.18
W-98876	TN-AUH-38152	144	2/20/2008 11:10	-28.1	-5.16
W-98954	LA-KFK-71270	145	2/20/2008 13:45	-26.3	-5.07
W-98878	MS-AWB-39180	146	2/20/2008 14:00	-24.1	-4.40
W-98879	MS-AWE-39183	147	2/21/2008 6:00	-25.2	-4.74
W-99111	LA-KFB-70816	148	2/21/2008 6:00	-21.2	-4.40
W-98952	LA-KFC-70803	149	2/20/2008 13:30	-22.0	-4.56
W-98953	LA-KFD-70803	150	2/20/2008 11:15	-21.8	-4.55
W-98951	LA-KFA-70506	151	2/20/2008 8:45	-19.5	-3.96
W-98949	LA-KFZ-70148	152	2/20/2008 10:50	-40.3	-6.51
W-98950	LA-KFE-70445	153	3/3/2008 0:00	-21.5	-4.39
W-98922	ND-KLC-58203	154	2/20/2008 8:27	-57.8	-7.07
W-98927	MT-KKA-59717	155	2/20/2008 8:00	-139.4	-18.48
W-98928	MT-KKG-59717	156	2/20/2008 12:00	-139.3	-18.41
W-98929	MT-KKO-59717	157	2/20/2008 7:00	-139.4	-18.40
W-98926	MT-KKB-59601	158	2/20/2008 16:00	-128.8	-16.37
W-98925	MT-KKE-59223	159	2/20/2008 15:30	-119.5	-14.63
W-98924	MT-KKD-59102	160	2/20/2008 14:15	-134.2	-17.49
W-98989	WY-KOC-82501	161	2/20/2008 13:30	-134.1	-17.38
W-98921	SD-KMC-57702	162	2/20/2008 9:45	-99.1	-12.94
W-99109	ND-KLB-58501	163	2/20/2008 10:00	-116.6	-14.36
W-98920	SD-KMB-57501	164	2/20/2008 15:10	-104.9	-12.67
W-98923	ND-KLA-58401	165	2/20/2008 7:30	-107.3	-14.36
W-98919	SD-KMF-57350	166	2/20/2008 9:00	-102.9	-12.70
W-98916	SD-KMD-57007	167	2/20/2008 11:00	-72.0	-10.20
W-98918	SD-KMN-57198	168	2/20/2008 8:00	-67.3	-9.43
W-98917	SD-KMA-57078	169	2/20/2008 8:05	-100.9	-12.53
W-98948	NE-KDD-69101	170	2/20/2008 15:00	-91.0	-11.47
W-98988	WY-KOB-82071	171	2/19/2008 13:30	-129.3	-17.14
W-98990	WY-KOP-82604	172	2/20/2008 7:00	-116.0	-14.56
W-98978	CO-KDG-80303	173	2/20/2008 10:53	-101.6	-12.39
W-98976	CO-KAH-80225	174	2/20/2008 7:30	-120.3	-16.11

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-98977	CO-KAN-80227	175	2/21/2008 15:50	-105.8	-13.45
W-98979	CO-KCI-80401	176	2/20/2008 8:33	-124.1	-16.50
W-98980	CO-KZW-80403	177	2/20/2008 6:58	-122.4	-16.42
W-98983	CO-KBA-80526	178	2/20/2008 8:40	-119.3	-15.85
W-98981	CO-KBB-80523	179	2/19/2008 11:27	-119.5	-15.84
W-98982	CO-KBF-80523	180	2/20/2008 10:05	-119.5	-15.89
W-98987	WY-KOL-82001	181	2/20/2008 7:00	-107.6	-13.39
W-98946	NE-KDB-68512	182	2/20/2008 11:00	-58.4	-7.86
W-98947	NE-KDC-68862	183	2/20/2008 8:00	-66.1	-9.02
W-98899	IA-KJA-51502	184	2/20/2008 8:15	-84.6	-10.63
W-98945	KS-KQA-67601	185	2/20/2008 14:00	-42.8	-5.80
W-98942	KS-KQD-66049	186	2/28/2008 5:30	-46.4	-6.87
W-98943	KS-KQL-66506	187	2/20/2008 8:45	-33.7	-5.35
W-98938	MO-KRG-65201	188	2/20/2008 8:30	-45.6	-7.24
W-98940	MO-KRI-65201	189	2/20/2008 15:55	-58.7	-7.88
W-98939	MO-KRH-65211	191	2/20/2008 13:00	-43.5	-6.96
W-98937	MO-KRA-64086	192	2/20/2008 16:10	-55.5	-7.71
W-98957	AR-AEW-72701	193	2/20/2008 15:45	-24.1	-3.85
W-98958	AR-KEB-72701	194	2/20/2008 12:34	-24.0	-3.79
W-98959	AR-KEF-72701	195	2/20/2008 15:00	-25.9	-4.41
W-99113	CO-KBO-81003	196	2/20/2008 12:00	-108.0	-14.26
W-98944	KS-KQB-67209	197	2/20/2008 13:00	-24.0	-3.54
W-98962	OK-KHC-74078	198	2/19/2008 10:30	-28.2	-4.40
W-98963	OK-KHB-74133	199	2/20/2008 8:00	-20.0	-3.35
W-98960	OK-KHA-73116	200	2/21/2008 13:54	-6.4	-0.86
W-98961	OK-KHH-73801	201	2/20/2008 9:30	-43.2	-6.57
W-98955	AR-AEU-72201	202	2/10/2008 10:00	-25.2	-4.39
W-98956	AR-KED-72211	203	2/20/2008 12:30	-14.6	-2.19
W-98966	TX-KIL-76308	204	2/20/2008 13:45	+2.3	+0.91
W-98964	TX-KII-75202	205	2/20/2008 10:00	-9.8	-1.90
W-98965	TX-KIR-76133	206	2/20/2008 15:50	-6.0	-1.02
W-98968	TX-ZHS-77040	207	2/20/2008 6:00	-11.0	-2.06
W-98969	TX-KIG-77385	208	2/20/2008 9:16	-22.4	-4.46
W-98975	TX-KIM-79409	209	2/20/2008 13:00	-32.8	-4.56
W-98970	TX-KIE-77843	210	2/20/2008 13:30	-25.7	-4.72
W-98967	TX-KIJ-76903	211	2/20/2008 11:15	+0.1	+0.82
W-98974	TX-KIA-78754	212	2/20/2008 12:10	-14.1	-2.27

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-98971	TX-KIK-78249	213	2/20/2008 6:20	-21.3	-3.81
W-98972	TX-KIH-78412	214	2/21/2008 8:15	-10.9	-2.11
W-98973	TX-KIS-78412	215	2/19/2008 9:15	-10.6	-1.97
W-99015	NM-KGA-87117	216	2/20/2008 11:15	-72.7	-9.88
W-99117	NM-KGI-87109	217	2/20/2008 12:45	-98.1	-13.36
W-99016	NM-KGH-87544	218	2/20/2008 8:21	-74.2	-10.63
W-99017	NM-KGL-88003	219	2/20/2008 2:51	-89.8	-11.64
W-99112	TX-KIP-79935	220	2/20/2008 15:00	-72.0	-10.23
W-99018	NM-KGC-88220	221	2/20/2008 11:15	-51.8	-7.90
W-98985	CO-KBG-81506	222	2/20/2008 14:35	-100.9	-13.54
W-99003	UT-KNB-84532	223	2/20/2008 14:30	-108.3	-15.02
W-99004	UT-KND-84532	224	2/20/2008 10:00	-108.7	-15.09
W-98986	CO-KBK-81641	225	2/20/2008 14:50	-125.7	-17.06
W-98984	CO-KBI-81303	226	2/20/2008 15:05	-83.2	-11.76
W-99019	NV-WNV-89074	227	2/20/2008 13:30	-97.8	-12.19
W-99006	UT-KNE-84741	228	2/20/2008 6:45	-95.5	-12.91
W-99013	AZ-WZA-86001	229	2/25/2008 17:00	-75.9	-10.24
W-99014	AZ-WZI-86011	230	2/20/2008 14:00	-77.4	-10.54
W-99010	AZ-WZX-85364	231	2/20/2008 10:25	-93.8	-11.51
W-99008	AZ-ZCH-85249	232	2/20/2008 17:30	-65.8	-8.86
W-99116	AZ-WZE-85719	233	2/21/2008 8:15	-68.5	-8.85
W-99012	AZ-WZH-85745	234	2/20/2008 11:10	-66.6	-8.62
W-99011	AZ-WZJ-85721	235	3/10/2008 9:50	-66.5	-8.89
W-99009	AZ-WZG-85281	236	2/20/2008 8:45	-68.9	-9.52
W-99007	AZ-ZPX-85029	238	2/20/2008 11:45	-93.7	-11.46
W-99002	UT-KNA-84322	239	2/20/2008 10:19	-126.5	-17.05
W-99115	UT-KNJ-84119	240	2/20/2008 14:00	-126.9	-17.14
W-99005	UT-KNM-84720	241	2/20/2008 9:00	-103.7	-14.28
W-99023	NV-WNE-89801	242	2/20/2008 12:00	-130.0	-16.49
W-99062	CA-WBJ-96140	243	2/20/2008 11:45	-109.0	-15.03
W-99022	NV-XNB-89557	244	2/20/2008 10:35	-76.6	-9.10
W-99021	NV-ZDQ-89502	245	2/20/2008 9:26	-76.9	-9.19
W-99119	NV-WNC-89701	246	2/20/2008 9:30	-109.2	-14.61
W-99001	ID-WIS-83854	247	2/20/2008 8:20	-110.4	-14.78
W-98931	MT-KKC-59903	248	2/20/2008 13:45	-124.0	-16.15
W-98932	MT-KKF-59936	249	2/20/2008 15:30	-124.9	-16.96
W-98930	MT-KKI-59801	250	2/19/2008 14:00	-130.0	-17.04

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-99088	WA-WWP-99201	251	2/20/2008 8:10	-111.1	-14.68
W-99089	WA-WWR-99201	252	2/20/2008 10:00	-111.3	-14.71
W-99090	WA-WWH-99301	253	2/20/2008 9:30	-129.9	-17.14
W-98993	ID-WIG-83209	254	2/20/2008 14:50	-125.1	-16.23
W-98997	ID-WII-83403	255	2/20/2008 15:40	-134.6	-17.77
W-98996	ID-WIK-83402	256	2/21/2008 10:18	-134.6	-17.74
W-98994	ID-WIZ-83215	257	2/20/2008 13:30	-133.4	-17.10
W-98995	ID-WIT-83301	258	2/19/2008 12:00	-125.6	-16.13
W-98991	WY-KOA-83001	259	3/1/2008 9:15	-140.1	-18.70
W-98992	WY-KOD-83001	260	2/21/2008 13:30	-139.9	-18.70
W-99114	ID-WIA-83702	261	2/20/2008 9:05	-125.2	-16.40
W-98998	ID-WID-83706	262	2/20/2008 8:45	-125.4	-16.28
W-99000	ID-WIB-83844	263	2/20/2008 11:00	-129.9	-16.88
W-98999	ID-WIF-83843	264	2/20/2008 9:30	-129.2	-16.81
W-99087	WA-WWL-98605	265	2/20/2008 7:30	-80.6	-11.40
W-99126	WA-WWA-98683	266	2/20/2008 9:15	-70.8	-9.91
W-99072	OR-WOB-97331	267	2/20/2008 13:45	-62.2	-9.33
W-99125	OR-WOR-97331	268	2/20/2008 15:30	-68.6	-9.97
W-99071	OR-WOH-97330	269	2/20/2008 8:00	-71.1	-10.19
W-99073	OR-WOD-97331	270	3/4/2008 8:55	-62.7	-9.52
W-99074	OR-XOB-97331	271	2/20/2008 13:30	-73.3	-10.54
W-99069	OR-WOA-97201	272	2/20/2008 9:30	-71.3	-10.58
W-99070	OR-WOJ-97204	273	2/25/2008 15:40	-71.6	-10.57
W-99076	OR-WOM-97502	274	2/20/2008 14:51	-91.0	-12.95
W-99075	OR-WOI-97365	275	2/20/2008 10:45	-44.0	-7.04
W-99085	WA-WWC-98362	276	2/21/2008 9:50	-84.4	-11.77
W-99084	WA-WWI-98358	277	3/5/2008 11:55	-79.9	-11.03
W-99080	WA-WUW-98195	278	2/20/2008 17:30	-75.8	-10.64
W-99078	WA-WWB-98104	279	2/20/2008 11:40	-76.3	-10.67
W-99081	WA-WWE-98195	280	2/20/2008 9:00	-75.7	-10.67
W-99079	WA-WWF-98115	281	2/22/2008 9:00	-74.9	-10.64
W-99082	WA-WWN-98195	282	2/20/2008 8:15	-75.5	-10.66
W-99086	WA-WWT-98402	283	2/20/2008 11:50	-80.1	-11.30
W-99020	WA-ZET-89499	284	2/22/2008 10:00	-73.5	-9.95
W-99083	WA-WWQ-98284	285	2/20/2008 8:45	-75.6	-10.81
W-99054	CA-WBQ-95521	286	2/20/2008 0:00	-55.6	-8.36
W-99053	CA-WCE-95501	287	2/20/2008 8:50	-54.5	-8.28

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-99055	CA-WCP-95521	288	2/20/2008 8:00	-56.7	-8.63
W-99052	CA-WCX-95482	289	2/20/2008 11:15	-49.8	-7.35
W-99077	OR-WOF-97603	290	2/20/2008 9:20	-111.2	-14.84
W-99060	CA-WBS-95826	291	2/20/2008 11:00	-71.2	-9.98
W-99058	CA-WCA-95819	292	2/20/2008 12:47	-71.9	-10.10
W-99059	CA-WEA-95819	293	2/20/2008 11:15	-71.1	-9.96
W-99061	CA-WCL-96003	294	2/20/2008 11:30	-82.1	-11.49
W-99057	CA-WCH-95620	295	2/20/2008 7:15	-40.9	-5.78
W-99056	CA-WCJ-95616	296	2/20/2008 11:30	-53.9	-7.78
W-99034	CA-WBZ-93271	297	2/20/2008 14:00	-68.2	-9.85
W-99050	CA-WBY-95318	298	2/22/2008 8:00	-84.7	-11.60
W-99051	CA-WSN-95389	299	2/20/2008 11:15	-90.1	-12.45
W-99044	CA-WMX-94545	300	2/21/2008 7:45	-73.9	-10.02
W-99046	CA-WCO-94956	301	2/22/2008 9:30	-27.9	-4.62
W-99043	CA-ZSF-94114	302	2/20/2008 22:00	-61.9	-8.16
W-99041	CA-WBM-94025	303	2/20/2008 11:00	-75.1	-9.97
W-99042	CA-WMR-94025	304	2/20/2008 15:30	-72.6	-9.84
W-99122	CA-XBM-94025	305	2/20/2008 11:05	-75.4	-10.24
W-99049	CA-ZSJ-95112	306	2/20/2008 19:00	-49.6	-7.24
W-99045	CA-WBW-94592	307	2/20/2008 11:18	-39.5	-5.41
W-99039	CA-WCS-93933	308	2/20/2008 9:30	-47.1	-7.07
W-99035	CA-WDC-93451	309	2/19/2008 17:30	-48.5	-7.02
W-99040	CA-ZBB-93933	310	2/20/2008 9:00	-49.8	-7.40
W-99033	CA-WEG-93106	311	2/22/2008 9:30	-41.3	-6.01
W-99036	CA-WNS-93455	312	2/20/2008 7:15	-62.5	-8.50
W-99047	CA-WAP-95060	313	2/26/2008 8:20	-30.9	-5.14
W-99048	CA-WCV-95060	314	2/21/2008 9:26	-33.4	-5.89
W-99024	CA-WNK-91106	315	2/20/2008 11:31	-68.6	-9.05
W-99120	CA-ZLA-90024	316	2/20/2008 22:55	-86.7	-11.32
W-99032	CA-WDA-92602	317	2/20/2008 14:57	-57.9	-8.53
W-99030	CA-WEC-92521	318	2/21/2008 10:20	-61.5	-9.01
W-99031	CA-WBU-92553	319	2/20/2008 9:30	-72.3	-9.73
W-99025	CA-WAY-92011	320	2/20/2008 16:00	-81.1	-10.02
W-99121	CA-WCG-92101	321	2/20/2008 9:00	-66.9	-7.89
W-99027	CA-WCK-92064	322	2/20/2008 10:30	-79.6	-9.74
W-99026	CA-WED-92037	323	2/20/2008 9:15	-78.1	-9.58
W-99037	CA-WEF-93514	324	2/20/2008 9:15	-124.0	-16.29

Appendix B. Sample Collection Information and Mean Analytical Results Sorted by Site and Date/Time—continued

[The $\delta^2\text{H}$ values are mean values of laser-based and (or) mass spectrometer measurement results, and the $\delta^{18}\text{O}$ results are mean values that include only mass spectrometer measurement results. OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site name	Site no.	Collection date/time	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	$\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)
W-99038	CA-WAQ-93546	325	2/20/2008 13:30	-111.3	-15.15
W-99029	CA-WBP-92308	326	2/20/2008 7:00	-70.8	-9.93
W-99237	NV-WNM-89023	327	2/27/2008 11:00	-103.0	-12.88
W-99028	CA-WSS-92253	328	3/5/2008 11:40	-70.0	-10.09
W-99095	AK-WBK-99801	329	2/21/2008 6:45	-104.1	-14.08
W-99096	AK-ZAK-99801	330	2/26/2008 10:15	-94.1	-12.74
W-99097	AK-ZJU-99801	331	2/26/2008 7:50	-103.8	-14.08
W-99130	AK-ZKN-99901	332	2/20/2008 11:30	-84.0	-11.86
W-99128	AK-WAC-99826	333	2/20/2008 14:30	-93.0	-12.92
W-99129	AK-ZGU-99826	334	2/20/2008 18:45	-97.5	-13.04
W-99127	AK-WAA-99508	335	2/20/2008 7:00	-145.0	-19.07
W-99091	AK-WAX-99501	336	2/20/2008 18:00	-145.3	-19.05
W-99093	AK-WAI-99775	337	2/20/2008 17:00	-153.8	-19.39
W-99094	AK-WAN-99775	338	2/20/2008 13:40	-154.0	-19.43
W-99092	AK-WAZ-99701	339	2/20/2008 9:50	-163.8	-20.79
W-99063	HI-WHF-96718	340	2/20/2008 18:03	-5.2	-1.39
W-99066	HI-WHI-96768	341	2/20/2008 9:15	-29.8	-5.79
W-99064	HI-WHK-96732	342	2/20/2008 8:15	-13.5	-3.73
W-99065	HI-WHM-96732	343	2/20/2008 15:00	-13.3	-3.64
W-99067	HI-WHB-96813	344	2/20/2008 8:52	-9.8	-3.17
W-99123	HI-WHD-96813	345	2/20/2008 14:30	-10.4	-3.12
W-98694	PR-APB-00965	346	2/20/2008 9:00	-10.5	-2.93
W-98693	VI-APA-00830	347	2/28/2008 8:30	-7.4	-2.49
W-99124	GU-WGS-96929	348	2/20/2008 12:30	-15.2	-3.45
W-99068	GU-WGF-96929	349	2/20/2008 13:00	-40.7	-6.58

This page left blank intentionally.

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94262	347	10/3/2007 5:03	V-284453	-3.3
W-94262	347	10/3/2007 12:45	V-284463	-5.0
W-94263	346	10/3/2007 5:21	V-284454	-7.1
W-94263	346	10/3/2007 13:03	V-284464	-8.0
W-94264	9	10/3/2007 5:39	V-284455	-51.4
W-94264	9	10/3/2007 13:21	V-284465	-50.7
W-94265	8	10/3/2007 5:57	V-284456	-55.7
W-94265	8	10/3/2007 13:39	V-284466	-57.6
W-94265	8	12/18/2007 13:18	V-287505	-54.0
W-94265	8	12/20/2007 17:32	V-287626	-58.1
W-94266	5	10/3/2007 6:15	V-284457	-46.9
W-94266	5	10/3/2007 13:56	V-284467	-46.0
W-94267	10	10/3/2007 6:33	V-284458	-32.6
W-94267	10	10/3/2007 14:32	V-284469	-33.4
W-94268	15	10/3/2007 6:52	V-284459	-44.6
W-94268	15	10/3/2007 14:50	V-284470	-45.6
W-94269	13	10/3/2007 15:07	V-284471	-45.2
W-94269	13	10/3/2007 23:50	V-284500	-44.3
W-94270	6	10/3/2007 15:42	V-284473	-60.2
W-94270	6	10/4/2007 12:04	V-284523	-61.7
W-94271	4	10/3/2007 16:00	V-284474	-60.5
W-94271	4	10/4/2007 12:40	V-284525	-61.3
W-94272	23	10/3/2007 16:18	V-284475	-60.5
W-94272	23	10/4/2007 12:58	V-284526	-62.9
W-94272	23	10/17/2007 4:47	V-284997	-60.7
W-94273	3	10/3/2007 16:36	V-284476	-70.2
W-94273	3	10/4/2007 13:16	V-284527	-69.7
W-94274	2	10/3/2007 16:53	V-284477	-68.9
W-94274	2	10/4/2007 13:34	V-284528	-71.0
W-94274	2	12/18/2007 13:35	V-287506	-70.2
W-94275	17	10/3/2007 17:11	V-284478	-71.6
W-94275	17	10/4/2007 13:52	V-284529	-72.1
W-94276	18	10/3/2007 17:29	V-284479	-73.0
W-94276	18	10/4/2007 14:09	V-284530	-74.4
W-94277	7	10/3/2007 17:47	V-284480	-52.0
W-94277	7	10/4/2007 14:27	V-284531	-51.1
W-94278	16	10/3/2007 18:04	V-284481	-49.9
W-94278	16	10/4/2007 14:44	V-284532	-50.6
W-94279	22	10/3/2007 19:21	V-284485	-33.2

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94279	22	10/4/2007 15:02	V-284533	-32.7
W-94280	26	10/3/2007 19:39	V-284486	-48.5
W-94280	26	10/4/2007 15:20	V-284534	-47.6
W-94281	24	10/3/2007 20:15	V-284488	-44.4
W-94281	24	10/4/2007 15:55	V-284536	-43.8
W-94282	20	10/3/2007 20:33	V-284489	-62.1
W-94282	20	10/4/2007 16:13	V-284537	-62.6
W-94283	96	10/3/2007 20:51	V-284490	-72.6
W-94283	96	10/4/2007 16:30	V-284538	-72.3
W-94284	98	10/3/2007 21:08	V-284491	-49.4
W-94284	98	10/4/2007 16:48	V-284539	-50.3
W-94285	97	10/3/2007 21:26	V-284492	-56.7
W-94285	97	10/4/2007 17:24	V-284541	-56.9
W-94286	101	10/3/2007 21:44	V-284493	-72.6
W-94286	101	10/4/2007 17:42	V-284542	-72.3
W-94287	99	10/3/2007 22:20	V-284495	-60.6
W-94287	99	10/4/2007 18:40	V-284545	-61.1
W-94288	100	10/3/2007 22:38	V-284496	-59.1
W-94288	100	10/4/2007 18:58	V-284546	-58.0
W-94289	103	10/3/2007 22:56	V-284497	-48.5
W-94289	103	10/4/2007 19:16	V-284547	-47.9
W-94290	30	10/3/2007 23:14	V-284498	-58.6
W-94290	30	10/4/2007 19:34	V-284548	-58.7
W-94291	32	10/3/2007 23:32	V-284499	-61.9
W-94291	32	10/4/2007 19:52	V-284549	-60.9
W-94293	33	10/4/2007 0:07	V-284501	-50.0
W-94293	33	10/4/2007 20:45	V-284552	-50.1
W-94294	31	10/4/2007 0:25	V-284502	-45.3
W-94294	31	10/17/2007 5:05	V-284998	-44.4
W-94295	29	10/4/2007 0:43	V-284503	-55.8
W-94295	29	10/4/2007 21:21	V-284554	-55.7
W-94296	28	10/4/2007 1:01	V-284504	-41.6
W-94296	28	10/4/2007 21:39	V-284555	-42.1
W-94297	27	10/4/2007 1:37	V-284506	-43.4
W-94297	27	10/4/2007 21:57	V-284556	-43.5
W-94298	25	10/4/2007 1:55	V-284507	-35.6
W-94298	25	10/17/2007 5:22	V-284999	-34.7
W-94299	40	10/4/2007 2:13	V-284508	-41.3
W-94299	40	10/4/2007 22:33	V-284558	-42.2

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94300	43	10/4/2007 2:30	V-284509	-40.2
W-94300	43	10/4/2007 23:09	V-284560	-40.4
W-94301	38	10/4/2007 2:49	V-284510	-41.8
W-94301	38	10/4/2007 23:27	V-284561	-41.7
W-94302	39	10/4/2007 3:06	V-284511	-41.9
W-94302	39	10/4/2007 23:45	V-284562	-42.5
W-94303	36	10/4/2007 3:24	V-284512	-38.7
W-94303	36	10/5/2007 0:21	V-284564	-40.8
W-94303	36	10/17/2007 11:39	V-285002	-39.2
W-94304	37	10/4/2007 4:00	V-284514	-40.0
W-94304	37	10/5/2007 0:38	V-284565	-40.0
W-94305	35	10/4/2007 4:18	V-284515	-43.6
W-94305	35	10/5/2007 0:56	V-284566	-44.9
W-94306	34	10/4/2007 4:36	V-284516	-43.1
W-94306	34	10/5/2007 1:14	V-284567	-43.4
W-94307	41	10/4/2007 4:54	V-284517	-52.7
W-94307	41	10/5/2007 1:32	V-284568	-53.9
W-94308	47	10/4/2007 5:12	V-284518	-38.0
W-94308	47	10/5/2007 1:50	V-284569	-38.4
W-94309	45	10/4/2007 5:30	V-284519	-41.0
W-94309	45	10/5/2007 2:08	V-284570	-42.6
W-94309	45	10/17/2007 12:04	V-285003	-42.3
W-94310	48	10/4/2007 20:27	V-284551	-34.9
W-94310	48	10/5/2007 2:26	V-284571	-34.0
W-94311	105	10/5/2007 2:44	V-284572	-38.5
W-94311	105	10/5/2007 13:12	V-284588	-39.4
W-94312	120	10/5/2007 3:20	V-284574	-53.2
W-94312	120	10/5/2007 13:30	V-284589	-52.4
W-94313	106	10/5/2007 3:56	V-284576	-40.8
W-94313	106	10/5/2007 14:06	V-284591	-41.5
W-94314	44	10/5/2007 4:13	V-284577	-47.3
W-94314	44	10/5/2007 14:23	V-284592	-48.4
W-94315	102	10/5/2007 4:32	V-284578	-44.5
W-94315	102	10/5/2007 14:44	V-284593	-43.7
W-94316	49	10/5/2007 4:49	V-284579	-16.3
W-94316	49	10/5/2007 15:14	V-284594	-17.3
W-94317	135	10/5/2007 5:07	V-284580	-57.6
W-94317	135	10/5/2007 15:46	V-284595	-58.1
W-94318	51	10/5/2007 16:19	V-284596	-22.0

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94318	51	10/9/2007 13:32	V-284643	-20.8
W-94319	53	10/5/2007 17:02	V-284598	-22.1
W-94319	53	10/9/2007 13:52	V-284644	-20.9
W-94320	116	10/5/2007 17:23	V-284599	-31.3
W-94320	116	10/9/2007 14:10	V-284645	-30.0
W-94321	56	10/5/2007 17:43	V-284600	-14.6
W-94321	56	10/9/2007 14:29	V-284646	-15.5
W-94322	55	10/5/2007 18:02	V-284601	-16.4
W-94322	55	10/17/2007 12:28	V-285004	-16.9
W-94323	54	10/5/2007 18:22	V-284602	-15.8
W-94323	54	10/17/2007 12:49	V-285005	-17.6
W-94324	52	10/5/2007 19:25	V-284605	-22.2
W-94324	52	10/9/2007 15:41	V-284650	-24.9
W-94324	52	10/17/2007 13:09	V-285006	-23.0
W-94325	58	10/5/2007 20:05	V-284607	-15.5
W-94325	58	10/19/2007 21:12	V-285128	-14.6
W-94327	77	10/5/2007 20:44	V-284609	-19.4
W-94327	77	10/9/2007 16:34	V-284653	-20.7
W-94328	138	10/5/2007 21:04	V-284610	-42.7
W-94328	138	10/9/2007 16:53	V-284654	-44.2
W-94330	76	10/5/2007 21:44	V-284612	-19.2
W-94330	76	10/9/2007 17:52	V-284657	-20.8
W-94331	59	10/5/2007 22:05	V-284613	-20.3
W-94331	59	10/9/2007 18:11	V-284658	-19.4
W-94332	60	10/5/2007 22:26	V-284614	-14.2
W-94332	60	10/9/2007 18:31	V-284659	-13.7
W-94333	57	10/5/2007 22:46	V-284615	-17.8
W-94333	57	10/9/2007 19:11	V-284661	-17.8
W-94334	75	10/5/2007 23:07	V-284616	-17.8
W-94334	75	10/9/2007 19:30	V-284662	-17.6
W-94335	73	10/5/2007 23:28	V-284617	-19.4
W-94335	73	10/9/2007 20:32	V-284665	-19.2
W-94336	74	10/5/2007 23:49	V-284618	-11.7
W-94336	74	10/9/2007 20:50	V-284666	-11.9
W-94337	78	10/6/2007 0:30	V-284620	-19.4
W-94337	78	10/9/2007 21:10	V-284667	-20.0
W-94338	61	10/6/2007 0:51	V-284621	-9.2
W-94338	61	10/9/2007 21:29	V-284668	-11.2
W-94338	61	10/17/2007 13:29	V-285007	-10.1

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94339	62	10/6/2007 1:11	V-284622	-9.3
W-94339	62	10/9/2007 21:48	V-284669	-9.0
W-94340	72	10/6/2007 1:31	V-284623	-17.9
W-94340	72	10/9/2007 22:28	V-284671	-18.7
W-94341	63	10/6/2007 2:11	V-284625	-6.3
W-94341	63	10/9/2007 22:49	V-284672	-8.8
W-94341	63	10/17/2007 14:06	V-285009	-7.0
W-94342	69	10/6/2007 2:31	V-284626	-11.4
W-94342	69	10/9/2007 23:09	V-284673	-12.4
W-94343	68	10/6/2007 3:11	V-284628	-3.2
W-94343	68	10/9/2007 23:30	V-284674	-5.3
W-94343	68	10/17/2007 14:24	V-285010	-4.2
W-94344	64	10/6/2007 3:31	V-284629	-11.3
W-94344	64	10/9/2007 23:51	V-284675	-12.5
W-94345	65	10/6/2007 3:51	V-284630	-0.4
W-94345	65	10/10/2007 0:31	V-284677	-0.6
W-94347	1	10/6/2007 4:30	V-284632	-69.0
W-94347	1	10/10/2007 1:12	V-284679	-69.0
W-94348	70	10/6/2007 4:49	V-284633	-9.3
W-94348	70	10/10/2007 1:33	V-284680	-11.1
W-94348	70	10/17/2007 15:00	V-285012	-10.3
W-94349	71	10/6/2007 5:09	V-284634	-7.7
W-94349	71	10/10/2007 2:11	V-284682	-7.2
W-94350	67	10/6/2007 5:28	V-284635	-4.1
W-94350	67	10/10/2007 2:33	V-284683	-3.4
W-94351	66	10/6/2007 5:48	V-284636	-3.3
W-94351	66	10/10/2007 2:54	V-284684	-2.9
W-94352	81	10/6/2007 6:27	V-284638	-19.0
W-94352	81	10/10/2007 3:14	V-284685	-17.5
W-94352	81	10/17/2007 15:18	V-285013	-19.9
W-94353	80	10/6/2007 6:46	V-284639	-13.7
W-94353	80	10/10/2007 3:33	V-284686	-14.5
W-94354	79	10/6/2007 7:06	V-284640	-10.1
W-94354	79	10/10/2007 4:12	V-284688	-11.2
W-94355	112	10/11/2007 9:24	V-284753	-26.8
W-94355	112	10/12/2007 4:31	V-284800	-25.5
W-94356	119	10/11/2007 9:45	V-284754	-42.9
W-94356	119	10/12/2007 4:49	V-284801	-41.2
W-94356	119	10/17/2007 15:37	V-285014	-42.5

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94357	118	10/11/2007 10:03	V-284755	-33.9
W-94357	118	10/12/2007 5:08	V-284802	-33.4
W-94358	117	10/11/2007 10:22	V-284756	-34.4
W-94358	117	10/12/2007 5:26	V-284803	-33.5
W-94359	142	10/11/2007 10:43	V-284757	-29.3
W-94359	142	10/12/2007 5:44	V-284804	-28.0
W-94360	113	10/11/2007 11:05	V-284758	-24.8
W-94360	113	10/12/2007 6:02	V-284805	-23.0
W-94360	113	10/17/2007 15:55	V-285015	-24.4
W-94361	146	10/12/2007 6:19	V-284806	-22.8
W-94361	146	10/17/2007 16:14	V-285016	-23.2
W-94362	147	10/12/2007 6:37	V-284807	-24.6
W-94362	147	10/12/2007 16:38	V-284823	-26.2
W-94362	147	10/17/2007 16:32	V-285017	-24.6
W-94364	84	10/12/2007 7:14	V-284809	-27.7
W-94364	84	10/12/2007 17:19	V-284825	-26.5
W-94365	83	10/12/2007 7:32	V-284810	-24.2
W-94365	83	10/12/2007 17:39	V-284826	-23.1
W-94366	82	10/12/2007 17:59	V-284827	-28.4
W-94366	82	10/17/2007 16:50	V-285018	-27.0
W-94367	114	10/12/2007 18:19	V-284828	-44.2
W-94367	114	10/17/2007 17:26	V-285020	-43.4
W-94368	111	10/12/2007 8:46	V-284814	-31.7
W-94368	111	10/12/2007 18:39	V-284829	-30.4
W-94369	115	10/12/2007 18:59	V-284830	-25.9
W-94369	115	10/17/2007 17:44	V-285021	-26.3
W-94370	108	10/12/2007 19:19	V-284831	-40.8
W-94370	108	10/17/2007 18:43	V-285024	-40.8
W-94371	107	10/12/2007 19:37	V-284832	-39.2
W-94371	107	10/17/2007 19:02	V-285025	-40.4
W-94372	104	10/12/2007 19:57	V-284833	-51.7
W-94372	104	10/17/2007 19:20	V-285026	-52.7
W-94373	94	10/5/2007 20:25	V-284608	-49.7
W-94373	94	10/12/2007 20:16	V-284834	-49.1
W-94374	110	10/5/2007 21:24	V-284611	-33.8
W-94374	110	10/12/2007 20:52	V-284836	-33.0
W-94375	87	10/6/2007 4:10	V-284631	-56.5
W-94375	87	10/12/2007 21:30	V-284838	-55.6
W-94376	92	10/9/2007 16:16	V-284652	-50.9

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94376	92	10/12/2007 21:49	V-284839	-49.8
W-94377	89	10/9/2007 17:14	V-284655	-60.5
W-94377	89	10/12/2007 22:07	V-284840	-58.9
W-94377	89	10/17/2007 19:56	V-285028	-60.3
W-94379	90	10/10/2007 0:50	V-284678	-77.4
W-94379	90	10/12/2007 23:27	V-284844	-75.6
W-94379	90	10/17/2007 20:15	V-285029	-76.4
W-94380	91	10/13/2007 0:03	V-284846	-79.0
W-94380	91	10/17/2007 20:33	V-285030	-80.8
W-94380	91	10/19/2007 21:32	V-285129	-80.6
W-94381	86	10/13/2007 0:21	V-284847	-44.3
W-94381	86	10/17/2007 20:51	V-285031	-45.3
W-94384	130	10/13/2007 1:15	V-284850	-47.4
W-94384	130	10/17/2007 21:46	V-285034	-46.6
W-94385	137	10/13/2007 1:35	V-284851	-54.0
W-94385	137	10/17/2007 22:22	V-285036	-53.7
W-94386	184	10/13/2007 1:54	V-284852	-79.3
W-94386	184	10/17/2007 22:40	V-285037	-78.2
W-94387	129	10/13/2007 2:30	V-284854	-41.0
W-94387	129	10/17/2007 22:58	V-285038	-41.2
W-94388	88	10/13/2007 2:48	V-284855	-44.0
W-94388	88	10/17/2007 23:34	V-285040	-43.7
W-94389	136	10/13/2007 3:09	V-284856	-55.9
W-94389	136	10/17/2007 23:52	V-285041	-56.5
W-94390	132	10/13/2007 3:29	V-284857	-56.9
W-94390	132	10/18/2007 0:10	V-285042	-56.7
W-94391	302	10/13/2007 3:49	V-284858	-73.2
W-94391	302	10/18/2007 0:29	V-285043	-73.6
W-94392	133	10/13/2007 4:08	V-284859	-57.8
W-94392	133	10/18/2007 0:46	V-285044	-57.7
W-94393	134	10/13/2007 4:29	V-284860	-58.9
W-94393	134	10/18/2007 1:05	V-285045	-58.9
W-94394	127	10/13/2007 4:49	V-284861	-65.4
W-94394	127	10/18/2007 1:23	V-285046	-64.8
W-94395	128	10/13/2007 5:09	V-284862	-63.9
W-94395	128	10/18/2007 1:41	V-285047	-64.7
W-94396	125	10/13/2007 5:29	V-284863	-58.8
W-94396	125	10/18/2007 2:17	V-285049	-58.9
W-94397	85	10/13/2007 5:49	V-284864	-64.9

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94397	85	10/18/2007 2:35	V-285050	-65.1
W-94398	126	10/18/2007 2:53	V-285051	-65.7
W-94398	126	10/19/2007 21:54	V-285130	-65.0
W-94399	123	10/13/2007 6:50	V-284867	-50.0
W-94399	123	10/18/2007 3:11	V-285052	-48.3
W-94399	123	10/19/2007 22:15	V-285131	-48.9
W-94400	124	10/13/2007 7:10	V-284868	-48.4
W-94400	124	10/18/2007 3:30	V-285053	-50.0
W-94401	122	10/13/2007 7:30	V-284869	-54.1
W-94401	122	10/18/2007 3:47	V-285054	-54.4
W-94401	122	10/19/2007 22:36	V-285132	-52.8
W-94402	121	10/13/2007 7:49	V-284870	-50.8
W-94402	121	10/18/2007 4:06	V-285055	-50.3
W-94404	237	10/13/2007 8:47	V-284873	-61.6
W-94404	237	10/18/2007 5:00	V-285058	-59.8
W-94404	237	10/19/2007 23:18	V-285134	-60.6
W-94405	141	10/20/2007 12:31	V-285171	-50.8
W-94405	141	10/23/2007 1:52	V-285219	-49.3
W-94406	167	10/20/2007 12:52	V-285172	-72.1
W-94406	167	10/23/2007 2:14	V-285220	-71.9
W-94407	169	10/20/2007 13:34	V-285174	-101.9
W-94407	169	10/23/2007 2:57	V-285222	-101.6
W-94408	168	10/20/2007 13:56	V-285175	-67.8
W-94408	168	10/23/2007 3:19	V-285223	-67.2
W-94409	166	10/23/2007 3:40	V-285224	-103.3
W-94409	166	10/23/2007 17:58	V-285249	-103.9
W-94410	164	10/23/2007 4:01	V-285225	-108.7
W-94410	164	10/23/2007 18:20	V-285250	-107.4
W-94411	162	10/23/2007 4:23	V-285226	-104.3
W-94411	162	10/23/2007 18:42	V-285251	-103.2
W-94412	154	10/23/2007 4:45	V-285227	-49.7
W-94412	154	10/23/2007 19:06	V-285252	-50.0
W-94413	165	10/23/2007 5:06	V-285228	-107.3
W-94413	165	10/23/2007 19:27	V-285253	-107.5
W-94414	163	10/23/2007 5:27	V-285229	-117.1
W-94414	163	10/23/2007 19:49	V-285254	-117.3
W-94415	160	10/23/2007 6:10	V-285231	-129.5
W-94415	160	10/23/2007 20:32	V-285256	-127.9
W-94415	160	10/25/2007 20:55	V-285371	-127.8

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94416	159	10/23/2007 6:32	V-285232	-122.3
W-94416	159	10/23/2007 20:54	V-285257	-122.6
W-94417	158	10/23/2007 6:53	V-285233	-134.3
W-94417	158	10/23/2007 21:15	V-285258	-131.6
W-94417	158	10/25/2007 21:35	V-285373	-132.2
W-94418	156	10/23/2007 7:36	V-285235	-142.0
W-94418	156	10/23/2007 21:35	V-285259	-139.2
W-94418	156	10/25/2007 21:56	V-285374	-139.8
W-94419	155	10/23/2007 7:56	V-285236	-142.2
W-94419	155	10/23/2007 22:44	V-285262	-138.5
W-94419	155	10/25/2007 22:16	V-285375	-141.1
W-94420	157	10/23/2007 23:05	V-285263	-139.0
W-94420	157	10/23/2007 23:48	V-285265	-139.2
W-94421	250	10/23/2007 23:27	V-285264	-128.9
W-94421	250	10/24/2007 2:44	V-285273	-130.1
W-94423	248	10/24/2007 0:09	V-285266	-121.6
W-94423	248	10/24/2007 21:10	V-285313	-123.9
W-94423	248	11/5/2007 14:45	V-285775	-122.9
W-94424	249	10/24/2007 0:58	V-285268	-123.9
W-94424	249	10/24/2007 21:30	V-285314	-123.9
W-94425	131	10/24/2007 1:21	V-285269	-49.3
W-94425	131	10/24/2007 21:51	V-285315	-50.2
W-94426	109	10/24/2007 1:42	V-285270	-40.6
W-94426	109	10/24/2007 22:12	V-285316	-41.8
W-94427	139	10/24/2007 2:02	V-285271	-26.5
W-94427	139	10/24/2007 22:52	V-285318	-26.4
W-94429	192	10/24/2007 3:04	V-285274	-60.7
W-94429	192	10/24/2007 23:13	V-285319	-61.4
W-94430	188	10/24/2007 3:25	V-285275	-44.3
W-94430	188	10/25/2007 0:20	V-285322	-43.4
W-94431	93	10/24/2007 3:46	V-285276	-51.9
W-94431	93	10/25/2007 0:40	V-285323	-53.2
W-94433	191	10/24/2007 4:07	V-285277	-43.3
W-94433	191	10/25/2007 1:01	V-285324	-43.3
W-94434	140	10/24/2007 4:28	V-285278	-39.6
W-94434	140	10/25/2007 1:22	V-285325	-40.5
W-94435	186	10/24/2007 5:11	V-285280	-19.2
W-94435	186	10/25/2007 2:02	V-285327	-20.3
W-94436	187	10/24/2007 5:32	V-285281	-33.8

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94436	187	10/25/2007 2:23	V-285328	-35.3
W-94438	185	10/24/2007 5:52	V-285282	-39.6
W-94438	185	10/25/2007 2:43	V-285329	-40.6
W-94439	182	10/24/2007 6:14	V-285283	-52.4
W-94439	182	10/25/2007 3:04	V-285330	-52.9
W-94441	183	10/24/2007 6:34	V-285284	-64.9
W-94441	183	10/25/2007 3:24	V-285331	-66.5
W-94441	183	10/26/2007 20:07	V-285421	-67.0
W-94442	170	10/24/2007 7:04	V-285285	-92.1
W-94442	170	10/25/2007 4:05	V-285333	-91.0
W-94443	151	10/24/2007 7:32	V-285286	-21.7
W-94443	151	10/25/2007 4:26	V-285334	-19.5
W-94443	151	10/26/2007 20:25	V-285422	-20.7
W-94444	150	10/24/2007 8:14	V-285288	-24.3
W-94444	150	10/25/2007 4:47	V-285335	-23.5
W-94445	148	10/25/2007 5:08	V-285336	-20.3
W-94445	148	10/26/2007 20:42	V-285423	-22.2
W-94445	148	11/5/2007 15:03	V-285776	-20.6
W-94446	149	10/24/2007 8:55	V-285290	-24.2
W-94446	149	10/25/2007 5:48	V-285338	-21.7
W-94446	149	10/26/2007 21:00	V-285424	-22.1
W-94447	145	10/25/2007 6:09	V-285339	-26.8
W-94447	145	10/26/2007 21:18	V-285425	-25.9
W-94448	202	10/25/2007 6:28	V-285340	-13.3
W-94448	202	10/26/2007 21:35	V-285426	-14.6
W-94449	203	10/24/2007 10:25	V-285294	-13.4
W-94449	203	10/25/2007 6:49	V-285341	-14.4
W-94450	193	10/24/2007 10:46	V-285295	-26.9
W-94450	193	10/25/2007 7:08	V-285342	-28.0
W-94451	195	10/24/2007 11:06	V-285296	-27.6
W-94451	195	10/25/2007 7:29	V-285343	-28.3
W-94452	194	10/24/2007 11:28	V-285297	-27.4
W-94452	194	10/25/2007 7:49	V-285344	-29.1
W-94452	194	10/26/2007 21:52	V-285427	-27.1
W-94453	200	10/25/2007 8:09	V-285345	-5.9
W-94453	200	10/25/2007 22:35	V-285376	-3.3
W-94453	200	11/5/2007 15:21	V-285777	-5.0
W-94455	198	10/25/2007 8:29	V-285346	-30.4
W-94455	198	10/25/2007 22:55	V-285377	-29.2

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94456	199	10/25/2007 8:49	V-285347	-23.0
W-94456	199	10/26/2007 0:00	V-285380	-21.5
W-94457	206	10/25/2007 9:09	V-285348	-11.2
W-94457	206	10/26/2007 0:19	V-285381	-9.2
W-94457	206	11/5/2007 15:39	V-285778	-11.0
W-94458	204	10/25/2007 9:28	V-285349	-2.1
W-94458	204	10/26/2007 0:38	V-285382	-0.8
W-94459	211	10/25/2007 10:07	V-285351	+1.6
W-94459	211	10/26/2007 0:57	V-285383	+3.4
W-94459	211	11/5/2007 15:57	V-285779	+1.7
W-94460	208	10/25/2007 10:27	V-285352	-24.0
W-94460	208	10/26/2007 1:16	V-285384	-20.6
W-94460	208	11/5/2007 16:15	V-285780	-24.1
W-94461	210	10/26/2007 1:35	V-285385	-23.8
W-94461	210	10/26/2007 22:10	V-285428	-25.5
W-94461	210	11/5/2007 16:33	V-285781	-26.6
W-94462	213	10/26/2007 2:12	V-285387	-20.1
W-94462	213	10/26/2007 23:02	V-285431	-21.9
W-94462	213	11/5/2007 17:08	V-285783	-23.5
W-94463	215	10/26/2007 2:32	V-285388	-9.3
W-94463	215	10/26/2007 23:20	V-285432	-10.7
W-94465	212	10/26/2007 2:53	V-285389	-10.0
W-94465	212	10/26/2007 23:38	V-285433	-9.7
W-94466	209	10/26/2007 3:13	V-285390	-30.5
W-94466	209	10/26/2007 23:55	V-285434	-30.1
W-94467	220	10/26/2007 3:33	V-285391	-67.6
W-94467	220	10/27/2007 0:12	V-285435	-69.3
W-94467	220	11/5/2007 18:07	V-285786	-70.6
W-94469	174	10/26/2007 3:52	V-285392	-122.4
W-94469	174	10/27/2007 1:10	V-285438	-123.3
W-94470	173	10/26/2007 4:31	V-285394	-118.7
W-94470	173	10/27/2007 1:28	V-285439	-121.1
W-94470	173	11/5/2007 18:26	V-285787	-122.0
W-94471	177	10/26/2007 5:09	V-285396	-124.5
W-94471	177	10/27/2007 1:45	V-285440	-123.7
W-94472	179	10/26/2007 5:28	V-285397	-116.4
W-94472	179	10/27/2007 2:03	V-285441	-117.3
W-94473	178	10/26/2007 5:47	V-285398	-115.3
W-94473	178	10/27/2007 2:20	V-285442	-116.5

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94474	196	10/26/2007 6:06	V-285399	-108.4
W-94474	196	10/27/2007 2:38	V-285443	-108.3
W-94475	226	10/26/2007 6:25	V-285400	-85.3
W-94475	226	10/27/2007 2:55	V-285444	-84.1
W-94476	222	10/26/2007 6:44	V-285401	-99.5
W-94476	222	10/27/2007 3:30	V-285446	-97.2
W-94476	222	11/5/2007 18:44	V-285788	-99.0
W-94477	225	10/26/2007 7:02	V-285402	-126.3
W-94477	225	10/27/2007 3:48	V-285447	-125.7
W-94478	181	10/26/2007 7:21	V-285403	-112.7
W-94478	181	10/27/2007 4:05	V-285448	-111.6
W-94479	171	10/26/2007 7:59	V-285405	-125.9
W-94479	171	10/27/2007 4:23	V-285449	-124.2
W-94479	171	11/5/2007 19:02	V-285789	-126.5
W-94480	161	10/26/2007 8:17	V-285406	-127.5
W-94480	161	10/27/2007 4:40	V-285450	-124.6
W-94480	161	11/5/2007 19:38	V-285791	-125.9
W-94481	172	10/26/2007 8:36	V-285407	-116.6
W-94481	172	10/27/2007 5:15	V-285452	-115.5
W-94482	259	10/27/2007 5:33	V-285453	-138.7
W-94482	259	11/5/2007 19:55	V-285792	-139.9
W-94483	254	10/26/2007 9:13	V-285409	-127.0
W-94483	254	10/27/2007 5:50	V-285454	-126.1
W-94484	258	10/26/2007 9:31	V-285410	-129.9
W-94484	258	10/27/2007 6:07	V-285455	-127.7
W-94484	258	11/5/2007 20:13	V-285793	-128.1
W-94485	264	10/26/2007 9:49	V-285411	-126.0
W-94485	264	10/27/2007 6:25	V-285456	-123.8
W-94485	264	11/5/2007 20:31	V-285794	-125.7
W-94486	255	10/26/2007 10:25	V-285413	-132.5
W-94486	255	10/27/2007 6:59	V-285458	-132.1
W-94487	256	10/27/2007 7:17	V-285459	-130.3
W-94487	256	10/30/2007 5:29	V-285531	-132.3
W-94487	256	11/5/2007 20:49	V-285795	-131.2
W-94488	261	10/27/2007 7:51	V-285461	-124.3
W-94488	261	10/30/2007 5:49	V-285532	-125.3
W-94489	262	10/27/2007 8:09	V-285462	-126.6
W-94489	262	10/30/2007 6:10	V-285533	-128.1
W-94490	263	10/27/2007 8:26	V-285463	-129.6

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94490	263	11/7/2007 23:15	V-285909	-128.5
W-94491	247	10/27/2007 8:44	V-285464	-110.4
W-94491	247	11/7/2007 23:33	V-285910	-109.7
W-94492	240	10/27/2007 9:01	V-285465	-118.3
W-94492	240	11/7/2007 23:51	V-285911	-117.4
W-94493	239	10/27/2007 9:19	V-285466	-126.4
W-94493	239	11/8/2007 0:09	V-285912	-127.4
W-94494	223	10/27/2007 9:37	V-285467	-107.5
W-94494	223	11/8/2007 0:45	V-285914	-108.4
W-94495	224	10/27/2007 9:54	V-285468	-108.5
W-94495	224	11/8/2007 1:03	V-285915	-109.1
W-94496	241	10/27/2007 10:12	V-285469	-102.8
W-94496	241	11/8/2007 1:21	V-285916	-103.1
W-94497	236	10/27/2007 10:30	V-285470	-63.1
W-94497	236	11/8/2007 1:39	V-285917	-61.7
W-94498	231	10/27/2007 11:05	V-285472	-95.0
W-94498	231	11/8/2007 2:16	V-285919	-93.8
W-94499	233	11/8/2007 2:33	V-285920	-65.8
W-94499	233	11/16/2007 6:31	V-286225	-67.2
W-94500	235	11/8/2007 3:09	V-285922	-65.1
W-94500	235	11/8/2007 18:00	V-285946	-66.7
W-94501	234	11/8/2007 3:27	V-285923	-66.6
W-94501	234	11/8/2007 18:18	V-285947	-69.1
W-94501	234	11/16/2007 6:49	V-286226	-68.9
W-94502	229	11/8/2007 3:45	V-285924	-85.9
W-94502	229	11/8/2007 18:35	V-285948	-86.8
W-94503	230	11/8/2007 4:03	V-285925	-79.3
W-94503	230	11/8/2007 18:53	V-285949	-79.6
W-94504	217	11/8/2007 4:21	V-285926	-91.9
W-94504	217	11/8/2007 19:28	V-285951	-93.7
W-94504	217	11/16/2007 7:06	V-286227	-93.7
W-94506	216	11/8/2007 4:39	V-285927	-73.5
W-94506	216	11/8/2007 19:46	V-285952	-72.6
W-94507	218	11/8/2007 4:57	V-285928	-75.4
W-94507	218	11/8/2007 20:21	V-285954	-73.6
W-94507	218	11/16/2007 7:42	V-286229	-76.2
W-94508	232	11/8/2007 5:15	V-285929	-66.1
W-94508	232	11/8/2007 20:39	V-285955	-65.6
W-94509	219	11/8/2007 5:33	V-285930	-89.1

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94509	219	11/8/2007 20:56	V-285956	-88.5
W-94510	221	11/8/2007 5:51	V-285931	-52.8
W-94510	221	11/8/2007 21:14	V-285957	-52.5
W-94511	327	11/8/2007 6:27	V-285933	-103.4
W-94511	327	11/8/2007 21:33	V-285958	-103.0
W-94512	227	11/8/2007 6:45	V-285934	-99.9
W-94512	227	11/8/2007 22:08	V-285960	-97.9
W-94512	227	11/16/2007 8:00	V-286230	-98.8
W-94515	246	11/8/2007 22:26	V-285961	-118.1
W-94515	246	11/16/2007 8:18	V-286231	-118.1
W-94516	242	11/8/2007 7:39	V-285937	-132.6
W-94516	242	11/8/2007 22:43	V-285962	-130.3
W-94516	242	11/16/2007 8:36	V-286232	-131.5
W-94517	315	11/8/2007 7:56	V-285938	-65.1
W-94517	315	11/8/2007 23:01	V-285963	-62.1
W-94517	315	11/16/2007 8:54	V-286233	-62.9
W-94518	320	11/9/2007 0:00	V-285966	-83.0
W-94518	320	11/16/2007 9:12	V-286234	-84.6
W-94519	322	11/8/2007 8:32	V-285940	-79.7
W-94519	322	11/9/2007 0:36	V-285968	-77.3
W-94519	322	11/16/2007 9:30	V-286235	-78.6
W-94520	323	11/9/2007 0:54	V-285969	-82.4
W-94520	323	11/16/2007 9:48	V-286236	-83.8
W-94521	321	11/9/2007 1:11	V-285970	-78.2
W-94521	321	11/9/2007 16:31	V-286004	-80.2
W-94521	321	11/16/2007 10:06	V-286237	-79.6
W-94522	328	11/9/2007 1:29	V-285971	-67.9
W-94522	328	11/9/2007 16:48	V-286005	-68.8
W-94523	326	11/9/2007 1:47	V-285972	-72.3
W-94523	326	11/9/2007 17:06	V-286006	-74.0
W-94523	326	11/16/2007 10:23	V-286238	-74.7
W-94524	95	11/9/2007 2:05	V-285973	-48.2
W-94524	95	11/9/2007 17:23	V-286007	-51.1
W-94524	95	11/16/2007 10:42	V-286239	-49.5
W-94525	319	11/9/2007 2:23	V-285974	-69.4
W-94525	319	11/9/2007 17:58	V-286009	-69.5
W-94526	317	11/9/2007 2:41	V-285975	-56.5
W-94526	317	11/9/2007 18:16	V-286010	-56.1
W-94527	180	11/9/2007 2:59	V-285976	-115.0

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94527	180	11/9/2007 18:33	V-286011	-115.8
W-94528	311	11/9/2007 3:17	V-285977	-31.7
W-94528	311	11/9/2007 18:51	V-286012	-31.8
W-94529	297	11/9/2007 3:34	V-285978	-68.5
W-94529	297	11/9/2007 19:08	V-286013	-68.1
W-94530	309	11/9/2007 4:10	V-285980	-47.3
W-94530	309	11/9/2007 19:25	V-286014	-46.6
W-94531	316	11/9/2007 4:28	V-285981	-78.9
W-94531	316	11/9/2007 19:43	V-286015	-79.4
W-94532	312	11/9/2007 4:46	V-285982	-64.3
W-94532	312	11/9/2007 20:01	V-286016	-63.2
W-94533	324	11/9/2007 5:04	V-285983	-122.7
W-94533	324	11/9/2007 20:36	V-286018	-122.2
W-94534	325	11/9/2007 5:22	V-285984	-109.8
W-94534	325	11/9/2007 20:53	V-286019	-110.7
W-94535	308	11/9/2007 5:40	V-285985	-44.2
W-94535	308	11/9/2007 21:11	V-286020	-44.1
W-94536	304	11/9/2007 5:58	V-285986	-96.2
W-94536	304	11/9/2007 21:28	V-286021	-99.3
W-94536	304	11/16/2007 10:59	V-286240	-98.3
W-94537	303	11/9/2007 6:33	V-285988	-96.7
W-94537	303	11/9/2007 22:04	V-286023	-98.0
W-94538	50	11/9/2007 6:51	V-285989	-16.5
W-94538	50	11/9/2007 23:01	V-286026	-17.2
W-94539	300	11/9/2007 7:08	V-285990	-99.4
W-94539	300	11/9/2007 23:18	V-286027	-99.1
W-94540	307	11/9/2007 7:26	V-285991	-68.9
W-94540	307	11/9/2007 23:36	V-286028	-69.0
W-94541	301	11/9/2007 7:43	V-285992	-28.1
W-94541	301	11/9/2007 23:54	V-286029	-27.9
W-94542	313	11/9/2007 8:19	V-285994	-31.5
W-94542	313	11/10/2007 0:11	V-286030	-31.2
W-94543	314	11/9/2007 8:36	V-285995	-32.5
W-94543	314	11/10/2007 0:29	V-286031	-31.9
W-94544	298	11/9/2007 8:54	V-285996	-86.6
W-94544	298	11/10/2007 0:47	V-286032	-86.4
W-94545	289	11/9/2007 9:11	V-285997	-52.0
W-94545	289	11/10/2007 1:22	V-286034	-51.9
W-94546	287	11/9/2007 9:28	V-285998	-55.9

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94546	287	11/10/2007 1:39	V-286035	-55.4
W-94547	288	11/9/2007 9:46	V-285999	-56.5
W-94547	288	11/10/2007 1:57	V-286036	-54.4
W-94547	288	11/16/2007 16:30	V-286244	-52.5
W-94548	286	11/9/2007 10:21	V-286001	-56.1
W-94548	286	11/10/2007 2:32	V-286038	-55.5
W-94549	296	11/10/2007 2:50	V-286039	-56.0
W-94549	296	11/13/2007 16:25	V-286064	-53.9
W-94549	296	11/16/2007 16:48	V-286245	-55.9
W-94550	295	11/10/2007 3:07	V-286040	-40.9
W-94550	295	11/13/2007 16:43	V-286065	-40.6
W-94551	331	11/10/2007 3:25	V-286041	-110.2
W-94551	331	11/13/2007 17:00	V-286066	-110.9
W-94552	310	11/10/2007 3:42	V-286042	-43.8
W-94552	310	11/13/2007 17:19	V-286067	-45.0
W-94553	293	11/10/2007 4:00	V-286043	-74.7
W-94553	293	11/13/2007 17:37	V-286068	-75.3
W-94554	292	11/10/2007 4:17	V-286044	-74.5
W-94554	292	11/13/2007 17:55	V-286069	-75.8
W-94555	291	11/10/2007 4:52	V-286046	-74.9
W-94555	291	11/13/2007 18:30	V-286071	-75.3
W-94556	294	11/10/2007 5:10	V-286047	-83.5
W-94556	294	11/13/2007 18:48	V-286072	-83.8
W-94557	243	11/10/2007 5:27	V-286048	-108.7
W-94557	243	11/13/2007 19:06	V-286073	-108.7
W-94558	340	11/10/2007 5:44	V-286049	-2.8
W-94558	340	11/13/2007 19:24	V-286074	-3.3
W-94559	207	11/10/2007 6:02	V-286050	-8.2
W-94559	207	11/13/2007 20:00	V-286076	-7.4
W-94560	342	11/10/2007 6:19	V-286051	-13.1
W-94560	342	11/13/2007 20:18	V-286077	-12.8
W-94561	343	11/10/2007 6:54	V-286053	-12.7
W-94561	343	11/13/2007 20:36	V-286078	-13.2
W-94563	341	11/10/2007 7:11	V-286054	-22.2
W-94563	341	11/13/2007 20:54	V-286079	-22.9
W-94564	345	11/10/2007 7:46	V-286056	-10.6
W-94564	345	11/13/2007 21:12	V-286080	-11.0
W-94565	273	11/10/2007 8:04	V-286057	-70.9
W-94565	273	11/13/2007 21:30	V-286081	-72.0

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94567	344	11/10/2007 8:22	V-286058	-10.3
W-94567	344	11/13/2007 21:47	V-286082	-10.9
W-94568	348	11/13/2007 23:05	V-286086	-31.8
W-94568	348	11/16/2007 17:05	V-286246	-31.1
W-94569	349	11/10/2007 8:57	V-286060	-41.3
W-94569	349	11/13/2007 23:23	V-286087	-39.7
W-94569	349	11/16/2007 17:23	V-286247	-40.9
W-94570	272	11/10/2007 9:14	V-286061	-76.2
W-94570	272	11/13/2007 23:41	V-286088	-75.4
W-94571	269	11/13/2007 23:59	V-286089	-82.0
W-94571	269	11/14/2007 17:17	V-286124	-79.6
W-94571	269	11/20/2007 13:17	V-286364	-82.0
W-94572	267	11/14/2007 0:17	V-286090	-68.6
W-94572	267	11/14/2007 17:35	V-286125	-70.8
W-94572	267	11/20/2007 13:53	V-286366	-69.5
W-94573	332	11/14/2007 0:53	V-286092	-82.8
W-94573	332	11/14/2007 17:53	V-286126	-81.7
W-94575	268	11/14/2007 1:11	V-286093	-82.0
W-94575	268	11/14/2007 18:29	V-286128	-80.7
W-94576	275	11/14/2007 1:28	V-286094	-41.6
W-94576	275	11/14/2007 18:46	V-286129	-41.3
W-94577	274	11/14/2007 1:46	V-286095	-89.4
W-94577	274	11/14/2007 19:04	V-286130	-88.2
W-94578	290	11/14/2007 2:04	V-286096	-110.5
W-94578	290	11/14/2007 19:22	V-286131	-110.5
W-94579	279	11/14/2007 2:40	V-286098	-74.7
W-94579	279	11/14/2007 19:40	V-286132	-73.7
W-94580	281	11/14/2007 2:59	V-286099	-74.8
W-94580	281	11/14/2007 19:57	V-286133	-75.6
W-94581	333	11/14/2007 20:15	V-286134	-87.8
W-94581	333	11/20/2007 14:11	V-286367	-89.0
W-94582	282	11/14/2007 3:35	V-286101	-75.0
W-94582	282	11/14/2007 20:33	V-286135	-73.9
W-94583	278	11/14/2007 3:53	V-286102	-75.2
W-94583	278	11/14/2007 21:09	V-286137	-72.7
W-94583	278	11/20/2007 14:29	V-286368	-74.1
W-94584	280	11/14/2007 4:11	V-286103	-75.7
W-94584	280	11/14/2007 21:26	V-286138	-74.7
W-94585	334	11/14/2007 4:47	V-286105	-103.1

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94585	334	11/14/2007 21:44	V-286139	-100.5
W-94585	334	11/20/2007 14:47	V-286369	-101.5
W-94586	285	11/14/2007 5:05	V-286106	-76.4
W-94586	285	11/14/2007 22:02	V-286140	-73.8
W-94586	285	11/20/2007 15:05	V-286370	-74.2
W-94587	277	11/14/2007 5:23	V-286107	-80.8
W-94587	277	11/14/2007 22:20	V-286141	-78.1
W-94587	277	11/20/2007 15:23	V-286371	-78.5
W-94588	276	11/14/2007 5:41	V-286108	-86.7
W-94588	276	11/14/2007 22:37	V-286142	-87.2
W-94589	283	11/14/2007 6:17	V-286110	-82.0
W-94589	283	11/14/2007 22:55	V-286143	-81.9
W-94590	265	11/14/2007 6:35	V-286111	-81.2
W-94590	265	11/15/2007 0:12	V-286147	-80.4
W-94591	266	11/15/2007 0:30	V-286148	-68.7
W-94591	266	11/20/2007 15:41	V-286372	-68.5
W-94592	251	11/15/2007 1:06	V-286150	-109.3
W-94592	251	11/27/2007 15:19	V-286615	-108.9
W-94593	252	11/15/2007 1:23	V-286151	-110.2
W-94593	252	11/27/2007 15:37	V-286616	-108.8
W-94594	253	11/15/2007 1:41	V-286152	-129.2
W-94594	253	11/27/2007 16:13	V-286618	-128.4
W-94595	336	11/14/2007 8:04	V-286116	-149.6
W-94595	336	11/15/2007 1:59	V-286153	-147.6
W-94595	336	11/27/2007 16:31	V-286619	-145.9
W-94595	336	11/29/2007 19:46	V-286738	-147.7
W-94596	19	11/14/2007 8:23	V-286117	-77.9
W-94596	19	11/15/2007 2:17	V-286154	-75.6
W-94596	19	11/27/2007 16:49	V-286620	-75.6
W-94597	260	11/14/2007 8:40	V-286118	-138.7
W-94597	260	11/15/2007 2:53	V-286156	-137.6
W-94598	335	11/15/2007 3:11	V-286157	-143.1
W-94598	335	11/27/2007 17:24	V-286622	-142.4
W-94599	339	11/15/2007 3:29	V-286158	-162.6
W-94599	339	11/27/2007 17:42	V-286623	-161.7
W-94600	152	11/15/2007 3:47	V-286159	-32.9
W-94600	152	11/16/2007 17:41	V-286248	-31.7
W-94601	257	11/15/2007 4:05	V-286160	-135.1
W-94601	257	11/16/2007 18:00	V-286249	-134.8

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94602	337	11/15/2007 4:23	V-286161	-154.5
W-94602	337	11/16/2007 18:35	V-286251	-152.9
W-94602	337	11/27/2007 18:42	V-286626	-152.9
W-94603	338	11/15/2007 4:59	V-286163	-154.5
W-94603	338	11/16/2007 18:53	V-286252	-152.7
W-94603	338	11/27/2007 19:00	V-286627	-152.7
W-94604	329	11/15/2007 5:17	V-286164	-108.7
W-94604	329	11/16/2007 19:11	V-286253	-108.3
W-94605	330	11/15/2007 5:35	V-286165	-95.0
W-94605	330	11/16/2007 19:29	V-286254	-93.0
W-94605	330	11/27/2007 19:18	V-286628	-93.8
W-94606	46	11/15/2007 5:52	V-286166	-41.9
W-94606	46	11/16/2007 19:47	V-286255	-43.1
W-94607	306	11/15/2007 6:10	V-286167	-49.0
W-94607	306	11/16/2007 20:23	V-286257	-47.1
W-94607	306	11/27/2007 19:36	V-286629	-48.1
W-94608	175	11/15/2007 6:46	V-286169	-107.5
W-94608	175	11/16/2007 20:41	V-286258	-106.7
W-94609	176	11/15/2007 7:04	V-286170	-119.0
W-94609	176	11/16/2007 20:59	V-286259	-118.4
W-94611	153	11/15/2007 7:22	V-286171	-21.9
W-94611	153	11/16/2007 21:16	V-286260	-22.7
W-94612	11	11/15/2007 7:40	V-286172	-43.3
W-94612	11	11/16/2007 21:52	V-286262	-44.7
W-94613	42	11/15/2007 7:58	V-286173	-45.5
W-94613	42	11/16/2007 22:10	V-286263	-44.3
W-94614	245	11/16/2007 23:09	V-286266	-71.5
W-94614	245	11/27/2007 19:54	V-286630	-70.1
W-94615	21	11/16/2007 23:27	V-286267	-56.0
W-94615	21	11/27/2007 20:12	V-286631	-55.0
W-94617	143	11/15/2007 8:51	V-286176	-30.5
W-94617	143	11/16/2007 23:45	V-286268	-29.9
W-94618	144	11/15/2007 9:09	V-286177	-29.5
W-94618	144	11/17/2007 0:21	V-286270	-28.6
W-94619	214	11/15/2007 9:26	V-286178	-11.2
W-94619	214	11/17/2007 0:39	V-286271	-9.8
W-94620	205	11/15/2007 10:02	V-286180	-12.6
W-94620	205	11/17/2007 0:57	V-286272	-11.0
W-94621	228	11/17/2007 1:15	V-286273	-95.6

Appendix C. Measurement Results for VG Micromass Dual-Inlet Isotope-Ratio Mass Spectrometer $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-94621	228	11/27/2007 20:48	V-286633	-95.0
W-94942	190	11/17/2007 1:33	V-286274	-43.8
W-94942	190	11/27/2007 21:06	V-286634	-42.7
W-94943	244	11/17/2007 1:52	V-286275	-71.9
W-94943	244	11/27/2007 21:25	V-286635	-71.4
W-94944	271	11/17/2007 2:10	V-286276	-82.1
W-94944	271	11/27/2007 22:01	V-286637	-82.4
W-94945	318	11/17/2007 2:28	V-286277	-61.1
W-94945	318	11/27/2007 22:19	V-286638	-61.6
W-94946	284	11/17/2007 2:46	V-286278	-73.4
W-94946	284	11/27/2007 22:37	V-286639	-74.4
W-94947	201	11/17/2007 3:22	V-286280	-42.4
W-94947	201	11/27/2007 22:55	V-286640	-43.7
W-94948	197	11/17/2007 3:40	V-286281	-26.5
W-94948	197	11/27/2007 23:13	V-286641	-26.3
W-94949	299	11/17/2007 3:58	V-286282	-82.5
W-94949	299	11/27/2007 23:31	V-286642	-83.3
W-94950	270	11/17/2007 4:16	V-286283	-81.0
W-94950	270	11/27/2007 23:49	V-286643	-81.1
W-94951	305	11/17/2007 4:52	V-286285	-98.2
W-94951	305	11/28/2007 0:07	V-286644	-99.1
W-99125	268	5/19/2008 13:52	V-293569	-69.2
W-99129	334	5/19/2008 14:10	V-293570	-97.0
W-99130	332	5/19/2008 14:29	V-293571	-84.8
W-99237	327	5/9/2008 20:16	V-293217	-103.4
W-99237	327	5/12/2008 16:59	V-293276	-102.6

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-98693	347	4/7/2008 11:59	B-5260	-6.8
W-98693	347	4/8/2008 12:44	B-5362	-8.0
W-98694	346	4/7/2008 12:28	B-5262	-11.0
W-98694	346	4/8/2008 13:13	B-5364	-10.1
W-98695	9	4/7/2008 12:56	B-5264	-55.1
W-98695	9	4/8/2008 13:42	B-5366	-55.8
W-98696	8	4/7/2008 13:25	B-5266	-56.4
W-98696	8	4/8/2008 14:10	B-5368	-56.0
W-98697	5	4/7/2008 13:54	B-5268	-44.2
W-98697	5	4/8/2008 14:39	B-5370	-43.9
W-98698	11	4/7/2008 14:23	B-5270	-43.8
W-98698	11	4/8/2008 15:08	B-5372	-43.4
W-98699	15	4/7/2008 15:20	B-5274	-42.4
W-98699	15	4/8/2008 16:05	B-5376	-42.5
W-98700	12	4/7/2008 15:49	B-5276	-39.9
W-98700	12	4/8/2008 16:34	B-5378	-39.3
W-98701	6	4/7/2008 16:17	B-5278	-61.6
W-98701	6	4/8/2008 17:02	B-5380	-61.1
W-98702	4	4/7/2008 16:46	B-5280	-61.8
W-98702	4	4/8/2008 17:31	B-5382	-62.0
W-98703	1	4/7/2008 17:15	B-5282	-68.6
W-98703	1	4/8/2008 18:00	B-5384	-68.7
W-98704	2	4/7/2008 17:43	B-5284	-68.2
W-98704	2	4/8/2008 18:29	B-5386	-68.0
W-98705	3	4/7/2008 18:12	B-5286	-68.3
W-98705	3	4/8/2008 18:57	B-5388	-68.1
W-98706	17	4/7/2008 19:10	B-5290	-71.5
W-98706	17	4/8/2008 19:55	B-5392	-71.5
W-98707	18	4/7/2008 19:38	B-5292	-71.7
W-98707	18	4/8/2008 20:23	B-5394	-71.9
W-98708	19	4/7/2008 20:07	B-5294	-74.9
W-98708	19	4/8/2008 20:52	B-5396	-75.4
W-98709	7	4/7/2008 20:36	B-5296	-48.8
W-98709	7	4/8/2008 21:21	B-5398	-48.3
W-98710	16	4/7/2008 21:04	B-5298	-46.7
W-98710	16	4/8/2008 21:49	B-5400	-45.8
W-98711	26	4/7/2008 21:33	B-5300	-52.6
W-98711	26	4/8/2008 22:18	B-5402	-52.6
W-98712	24	4/7/2008 22:02	B-5302	-45.7

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-98712	24	4/8/2008 22:47	B-5404	-45.6
W-98713	20	4/7/2008 22:59	B-5306	-60.1
W-98713	20	4/8/2008 23:44	B-5408	-60.2
W-98714	21	4/7/2008 23:28	B-5308	-54.7
W-98714	21	4/9/2008 0:13	B-5410	-55.0
W-98715	96	4/7/2008 23:56	B-5310	-72.3
W-98715	96	4/9/2008 0:42	B-5412	-71.0
W-98716	98	4/8/2008 0:25	B-5312	-48.9
W-98716	98	4/9/2008 1:10	B-5414	-48.3
W-98810	97	4/8/2008 0:54	B-5314	-58.1
W-98810	97	4/9/2008 1:39	B-5416	-58.5
W-98811	101	4/8/2008 1:23	B-5316	-80.7
W-98811	101	4/9/2008 2:08	B-5418	-80.3
W-98812	99	4/8/2008 1:51	B-5318	-61.3
W-98812	99	4/9/2008 2:36	B-5420	-60.7
W-98813	100	4/8/2008 2:49	B-5322	-67.2
W-98813	100	4/9/2008 3:34	B-5424	-67.0
W-98814	30	4/8/2008 3:17	B-5324	-59.1
W-98814	30	4/9/2008 4:03	B-5426	-59.1
W-98815	32	4/8/2008 3:46	B-5326	-61.9
W-98815	32	4/9/2008 4:31	B-5428	-62.4
W-98816	33	4/8/2008 4:16	B-5328	-48.7
W-98816	33	4/9/2008 5:00	B-5430	-47.9
W-98817	31	4/8/2008 4:44	B-5330	-54.1
W-98817	31	4/9/2008 5:29	B-5432	-53.9
W-98818	29	4/8/2008 5:13	B-5332	-55.1
W-98818	29	4/9/2008 5:57	B-5434	-55.3
W-98819	28	4/8/2008 5:42	B-5334	-44.5
W-98819	28	4/9/2008 6:26	B-5436	-44.6
W-98820	27	4/8/2008 6:39	B-5338	-44.7
W-98820	27	4/9/2008 7:24	B-5440	-44.7
W-98821	25	4/8/2008 7:08	B-5340	-36.2
W-98821	25	4/9/2008 7:52	B-5442	-36.2
W-98822	38	4/8/2008 7:37	B-5342	-45.6
W-98822	38	4/9/2008 8:21	B-5444	-46.0
W-98823	40	4/8/2008 8:05	B-5344	-45.2
W-98823	40	4/9/2008 8:50	B-5446	-44.6
W-98824	39	4/9/2008 11:53	B-5458	-45.5
W-98824	39	4/10/2008 11:23	B-5554	-45.3

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-98825	42	4/9/2008 12:21	B-5460	-45.2
W-98825	42	4/10/2008 11:52	B-5556	-45.4
W-98826	37	4/9/2008 12:50	B-5462	-38.4
W-98826	37	4/10/2008 12:20	B-5558	-39.0
W-98827	36	4/9/2008 13:19	B-5464	-38.7
W-98827	36	4/10/2008 12:49	B-5560	-38.5
W-98828	35	4/9/2008 13:47	B-5466	-39.7
W-98828	35	4/10/2008 13:18	B-5562	-39.7
W-98829	34	4/9/2008 14:16	B-5468	-44.0
W-98829	34	4/10/2008 13:47	B-5564	-43.5
W-98830	41	4/9/2008 14:45	B-5470	-58.8
W-98830	41	4/10/2008 14:15	B-5566	-57.8
W-98831	47	4/9/2008 15:42	B-5474	-38.1
W-98831	47	4/10/2008 15:13	B-5570	-38.0
W-98832	46	4/9/2008 16:11	B-5476	-36.1
W-98832	46	4/10/2008 15:41	B-5572	-35.7
W-98833	45	4/9/2008 16:39	B-5478	-35.7
W-98833	45	4/10/2008 16:10	B-5574	-36.0
W-98834	48	4/9/2008 17:08	B-5480	-38.2
W-98834	48	4/10/2008 16:39	B-5576	-38.3
W-98835	105	4/9/2008 17:37	B-5482	-39.9
W-98835	105	4/10/2008 17:07	B-5578	-41.0
W-98836	120	4/9/2008 18:06	B-5484	-51.2
W-98836	120	4/10/2008 17:36	B-5580	-52.0
W-98837	106	4/9/2008 18:34	B-5486	-43.0
W-98837	106	4/10/2008 18:05	B-5582	-44.1
W-98838	44	4/9/2008 19:32	B-5490	-46.5
W-98838	44	4/10/2008 19:02	B-5586	-48.0
W-98839	102	4/9/2008 20:00	B-5492	-46.4
W-98839	102	4/10/2008 19:31	B-5588	-47.4
W-98840	49	4/9/2008 20:29	B-5494	-12.0
W-98840	49	4/10/2008 19:59	B-5590	-13.1
W-98841	50	4/9/2008 20:58	B-5496	-12.3
W-98841	50	4/10/2008 20:28	B-5592	-12.9
W-98842	53	4/9/2008 21:26	B-5498	-17.4
W-98842	53	4/10/2008 20:57	B-5594	-18.4
W-98843	116	4/9/2008 21:55	B-5500	-29.5
W-98843	116	4/10/2008 21:26	B-5596	-29.6
W-98844	51	4/9/2008 22:24	B-5502	-20.8

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-98844	51	4/10/2008 21:54	B-5598	-21.0
W-98845	56	4/9/2008 23:21	B-5506	-12.4
W-98845	56	4/10/2008 22:52	B-5602	-12.8
W-98846	55	4/9/2008 23:50	B-5508	-12.4
W-98846	55	4/10/2008 23:20	B-5604	-12.8
W-98847	54	4/10/2008 0:19	B-5510	-12.3
W-98847	54	4/10/2008 23:49	B-5606	-12.9
W-98848	52	4/10/2008 0:47	B-5512	-24.2
W-98848	52	4/11/2008 0:18	B-5608	-24.7
W-98849	58	4/10/2008 1:16	B-5514	-15.9
W-98849	58	4/11/2008 0:46	B-5610	-16.4
W-98850	77	4/10/2008 1:45	B-5516	-15.0
W-98850	77	4/11/2008 1:15	B-5612	-15.6
W-98851	76	4/10/2008 2:13	B-5518	-15.6
W-98851	76	4/11/2008 1:44	B-5614	-15.8
W-98852	59	4/10/2008 3:11	B-5522	-25.7
W-98852	59	4/11/2008 2:41	B-5618	-25.7
W-98853	60	4/10/2008 3:39	B-5524	-24.6
W-98853	60	4/11/2008 3:10	B-5620	-23.9
W-98854	57	4/10/2008 4:08	B-5526	-14.8
W-98854	57	4/11/2008 3:39	B-5622	-14.7
W-98855	75	4/10/2008 4:37	B-5528	-18.8
W-98855	75	4/11/2008 4:07	B-5624	-18.9
W-98856	73	4/10/2008 5:05	B-5530	-19.6
W-98856	73	4/11/2008 4:36	B-5626	-19.4
W-98857	74	4/10/2008 5:34	B-5532	-10.5
W-98857	74	4/11/2008 5:05	B-5628	-9.9
W-98858	78	4/10/2008 6:03	B-5534	-21.7
W-98858	78	4/11/2008 5:33	B-5630	-20.9
W-98859	72	4/10/2008 7:00	B-5538	-19.1
W-98859	72	4/11/2008 6:31	B-5634	-18.4
W-98860	62	4/10/2008 7:29	B-5540	-9.9
W-98860	62	4/11/2008 6:59	B-5636	-10.1
W-98861	61	4/10/2008 7:58	B-5542	-9.4
W-98861	61	4/11/2008 7:28	B-5638	-9.5
W-98862	63	4/10/2008 8:26	B-5544	-7.6
W-98862	63	4/11/2008 7:57	B-5640	-7.4
W-98863	69	4/11/2008 10:52	B-5650	-11.3
W-98863	69	4/13/2008 13:46	B-5746	-12.0

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-98864	68	4/11/2008 11:21	B-5652	-3.7
W-98864	68	4/13/2008 14:15	B-5748	-3.6
W-98865	64	4/11/2008 11:50	B-5654	-12.6
W-98865	64	4/13/2008 14:44	B-5750	-12.1
W-98866	65	4/11/2008 12:18	B-5656	-1.7
W-98866	65	4/13/2008 15:12	B-5752	-1.6
W-98867	71	4/11/2008 12:47	B-5658	-5.6
W-98867	71	4/13/2008 15:41	B-5754	-5.1
W-98868	67	4/11/2008 13:16	B-5660	-4.4
W-98868	67	4/13/2008 16:10	B-5756	-4.3
W-98869	66	4/11/2008 13:45	B-5662	-4.1
W-98869	66	4/13/2008 16:39	B-5758	-3.6
W-98870	81	4/11/2008 14:42	B-5666	-14.6
W-98870	81	4/13/2008 17:36	B-5762	-14.5
W-98871	79	4/11/2008 15:11	B-5668	-19.9
W-98871	79	4/13/2008 18:05	B-5764	-19.8
W-98872	117	4/11/2008 15:39	B-5670	-32.1
W-98872	117	4/13/2008 18:33	B-5766	-32.4
W-98873	118	4/11/2008 16:08	B-5672	-31.8
W-98873	118	4/13/2008 19:02	B-5768	-31.8
W-98874	142	4/11/2008 16:37	B-5674	-28.4
W-98874	142	4/13/2008 19:31	B-5770	-28.8
W-98875	143	4/11/2008 17:05	B-5676	-27.5
W-98875	143	4/13/2008 19:59	B-5772	-28.3
W-98876	144	4/11/2008 17:34	B-5678	-27.8
W-98876	144	4/13/2008 20:28	B-5774	-28.4
W-98877	113	4/11/2008 18:31	B-5682	-24.8
W-98877	113	4/13/2008 21:25	B-5778	-24.1
W-98878	146	4/11/2008 19:00	B-5684	-23.7
W-98878	146	4/13/2008 21:54	B-5780	-24.4
W-98879	147	4/11/2008 19:29	B-5686	-25.2
W-98879	147	4/13/2008 22:23	B-5782	-25.1
W-98880	83	4/11/2008 19:58	B-5688	-23.0
W-98880	83	4/13/2008 22:52	B-5784	-23.1
W-98881	82	4/11/2008 20:26	B-5690	-28.2
W-98881	82	4/13/2008 23:20	B-5786	-28.3
W-98882	114	4/11/2008 20:55	B-5692	-44.6
W-98882	114	4/13/2008 23:49	B-5788	-45.3
W-98883	111	4/11/2008 21:24	B-5694	-30.9

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-98883	111	4/14/2008 0:18	B-5790	-31.1
W-98884	115	4/11/2008 22:21	B-5698	-33.8
W-98884	115	4/14/2008 1:15	B-5794	-33.9
W-98885	108	4/11/2008 22:50	B-5700	-45.9
W-98885	108	4/14/2008 1:44	B-5796	-46.3
W-98886	107	4/11/2008 23:18	B-5702	-46.0
W-98886	107	4/14/2008 2:12	B-5798	-46.4
W-98887	95	4/11/2008 23:47	B-5704	-50.6
W-98887	95	4/14/2008 2:41	B-5800	-50.7
W-98888	104	4/12/2008 0:16	B-5706	-52.6
W-98888	104	4/14/2008 3:10	B-5802	-52.8
W-98889	94	4/12/2008 0:44	B-5708	-52.1
W-98889	94	4/14/2008 3:38	B-5804	-52.1
W-98890	110	4/12/2008 1:13	B-5710	-39.9
W-98890	110	4/14/2008 4:07	B-5806	-39.5
W-98891	87	4/12/2008 2:11	B-5714	-57.9
W-98891	87	4/14/2008 5:05	B-5810	-57.3
W-98892	92	4/12/2008 2:39	B-5716	-61.0
W-98892	92	4/14/2008 5:33	B-5812	-60.4
W-98893	93	4/12/2008 3:08	B-5718	-55.0
W-98893	93	4/14/2008 6:02	B-5814	-54.7
W-98894	90	4/12/2008 3:37	B-5720	-77.4
W-98894	90	4/14/2008 6:31	B-5816	-77.1
W-98895	91	4/12/2008 4:05	B-5722	-81.6
W-98895	91	4/14/2008 6:59	B-5818	-81.2
W-98896	86	4/12/2008 4:34	B-5724	-48.2
W-98896	86	4/14/2008 7:28	B-5820	-48.4
W-98897	130	4/12/2008 5:03	B-5726	-48.4
W-98897	130	4/14/2008 7:57	B-5822	-49.0
W-98898	137	4/12/2008 6:00	B-5730	-56.5
W-98898	137	4/14/2008 8:54	B-5826	-56.1
W-98899	184	4/12/2008 6:29	B-5732	-84.9
W-98899	184	4/14/2008 9:23	B-5828	-84.4
W-98900	129	4/12/2008 6:57	B-5734	-47.2
W-98900	129	4/14/2008 9:52	B-5830	-46.5
W-98901	88	4/12/2008 7:26	B-5736	-44.4
W-98901	88	4/14/2008 10:20	B-5832	-44.0
W-98902	136	4/14/2008 12:59	B-5842	-57.8
W-98902	136	4/15/2008 14:44	B-5944	-58.0

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-98903	132	4/14/2008 13:27	B-5844	-58.1
W-98903	132	4/15/2008 15:13	B-5946	-57.9
W-98904	135	4/14/2008 13:56	B-5846	-58.7
W-98904	135	4/15/2008 15:41	B-5948	-58.9
W-98905	133	4/14/2008 14:25	B-5848	-58.1
W-98905	133	4/15/2008 16:10	B-5950	-58.2
W-98906	134	4/14/2008 14:54	B-5850	-59.5
W-98906	134	4/15/2008 16:39	B-5952	-59.6
W-98907	127	4/14/2008 15:22	B-5852	-67.3
W-98907	127	4/15/2008 17:07	B-5954	-67.6
W-98908	128	4/14/2008 15:51	B-5854	-65.6
W-98908	128	4/15/2008 17:36	B-5956	-65.7
W-98909	125	4/14/2008 16:48	B-5858	-59.7
W-98909	125	4/15/2008 18:33	B-5960	-60.5
W-98910	85	4/14/2008 17:17	B-5860	-68.9
W-98910	85	4/15/2008 19:02	B-5962	-69.5
W-98911	126	4/14/2008 17:46	B-5862	-66.3
W-98911	126	4/15/2008 19:31	B-5964	-66.8
W-98912	123	4/14/2008 18:14	B-5864	-52.0
W-98912	123	4/15/2008 19:59	B-5966	-53.2
W-98913	124	4/14/2008 18:43	B-5866	-52.0
W-98913	124	4/15/2008 20:28	B-5968	-53.1
W-98914	122	4/14/2008 19:12	B-5868	-59.4
W-98914	122	4/15/2008 20:57	B-5970	-60.2
W-98915	121	4/14/2008 19:40	B-5870	-57.9
W-98915	121	4/15/2008 21:26	B-5972	-59.3
W-98916	167	4/14/2008 20:38	B-5874	-71.6
W-98916	167	4/15/2008 22:23	B-5976	-72.4
W-98917	169	4/14/2008 21:07	B-5876	-100.6
W-98917	169	4/15/2008 22:52	B-5978	-101.3
W-98918	168	4/14/2008 21:35	B-5878	-67.1
W-98918	168	4/15/2008 23:20	B-5980	-67.5
W-98919	166	4/14/2008 22:04	B-5880	-102.6
W-98919	166	4/15/2008 23:49	B-5982	-103.1
W-98920	164	4/14/2008 22:33	B-5882	-104.3
W-98920	164	4/16/2008 0:18	B-5984	-105.6
W-98921	162	4/14/2008 23:01	B-5884	-98.5
W-98921	162	4/16/2008 0:46	B-5986	-99.7
W-98922	154	4/14/2008 23:30	B-5886	-57.3

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-98922	154	4/16/2008 1:15	B-5988	-58.2
W-98923	165	4/15/2008 0:27	B-5890	-106.9
W-98923	165	4/16/2008 2:12	B-5992	-107.8
W-98924	160	4/15/2008 0:56	B-5892	-133.6
W-98924	160	4/16/2008 2:41	B-5994	-134.8
W-98925	159	4/15/2008 1:25	B-5894	-118.7
W-98925	159	4/16/2008 3:10	B-5996	-120.2
W-98926	158	4/15/2008 1:53	B-5896	-128.4
W-98926	158	4/16/2008 3:39	B-5998	-129.3
W-98927	155	4/15/2008 2:22	B-5898	-138.7
W-98927	155	4/16/2008 4:07	B-6000	-140.2
W-98927	155	4/17/2008 13:46	B-6136	-139.1
W-98928	156	4/15/2008 2:51	B-5900	-138.7
W-98928	156	4/16/2008 4:36	B-6002	-140.4
W-98928	156	4/17/2008 14:15	B-6138	-138.9
W-98929	157	4/15/2008 3:20	B-5902	-138.6
W-98929	157	4/16/2008 5:05	B-6004	-140.4
W-98929	157	4/17/2008 14:43	B-6140	-139.1
W-98930	250	4/15/2008 4:17	B-5906	-129.3
W-98930	250	4/16/2008 6:02	B-6008	-130.7
W-98930	250	4/17/2008 15:12	B-6142	-130.1
W-98931	248	4/15/2008 4:46	B-5908	-123.5
W-98931	248	4/16/2008 6:31	B-6010	-124.9
W-98931	248	4/17/2008 15:41	B-6144	-123.6
W-98932	249	4/15/2008 5:14	B-5910	-123.7
W-98932	249	4/15/2008 7:58	B-5916	-126.2
W-98932	249	4/16/2008 6:59	B-6012	-125.4
W-98932	249	4/17/2008 16:09	B-6146	-124.4
W-98933	131	4/15/2008 8:26	B-5918	-51.5
W-98933	131	4/16/2008 7:28	B-6014	-49.8
W-98933	131	4/17/2008 16:38	B-6148	-50.1
W-98934	109	4/15/2008 8:55	B-5920	-43.9
W-98934	109	4/16/2008 7:57	B-6016	-42.1
W-98934	109	4/17/2008 17:36	B-6152	-41.6
W-98935	139	4/15/2008 9:24	B-5922	-22.8
W-98935	139	4/16/2008 8:25	B-6018	-21.4
W-98936	141	4/15/2008 9:52	B-5924	-65.8
W-98936	141	4/16/2008 8:54	B-6020	-65.2
W-98937	192	4/15/2008 10:50	B-5928	-56.2

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-98937	192	4/16/2008 9:52	B-6024	-54.8
W-98938	188	4/15/2008 11:18	B-5930	-45.9
W-98938	188	4/16/2008 10:20	B-6026	-45.2
W-98939	191	4/15/2008 11:47	B-5932	-44.4
W-98939	191	4/16/2008 10:49	B-6028	-42.9
W-98939	191	4/17/2008 18:04	B-6154	-43.0
W-98940	189	4/15/2008 12:16	B-5934	-58.9
W-98940	189	4/16/2008 11:18	B-6030	-58.4
W-98941	140	4/16/2008 14:13	B-6040	-38.1
W-98941	140	4/17/2008 18:33	B-6156	-37.5
W-98942	186	4/16/2008 14:42	B-6042	-46.7
W-98942	186	4/17/2008 19:02	B-6158	-46.2
W-98943	187	4/16/2008 15:11	B-6044	-33.6
W-98943	187	4/17/2008 19:30	B-6160	-33.8
W-98944	197	4/16/2008 15:39	B-6046	-24.1
W-98944	197	4/17/2008 19:59	B-6162	-23.9
W-98945	185	4/16/2008 16:08	B-6048	-42.7
W-98945	185	4/17/2008 20:28	B-6164	-43.0
W-98946	182	4/16/2008 16:37	B-6050	-58.2
W-98946	182	4/17/2008 21:25	B-6168	-58.6
W-98947	183	4/16/2008 17:05	B-6052	-65.8
W-98947	183	4/17/2008 21:54	B-6170	-66.3
W-98948	170	4/16/2008 18:03	B-6056	-91.0
W-98948	170	4/17/2008 22:22	B-6172	-91.0
W-98949	152	4/16/2008 18:32	B-6058	-40.4
W-98949	152	4/17/2008 22:51	B-6174	-40.1
W-98950	153	4/16/2008 19:00	B-6060	-21.7
W-98950	153	4/17/2008 23:20	B-6176	-21.3
W-98951	151	4/16/2008 19:29	B-6062	-19.6
W-98951	151	4/17/2008 23:49	B-6178	-19.4
W-98952	149	4/16/2008 19:58	B-6064	-22.2
W-98952	149	4/18/2008 0:17	B-6180	-21.8
W-98953	150	4/16/2008 20:26	B-6066	-21.9
W-98953	150	4/18/2008 1:15	B-6184	-21.7
W-98954	145	4/16/2008 20:55	B-6068	-26.2
W-98954	145	4/18/2008 1:43	B-6186	-26.3
W-98955	202	4/16/2008 21:52	B-6072	-25.3
W-98955	202	4/18/2008 2:12	B-6188	-25.2
W-98956	203	4/16/2008 22:21	B-6074	-14.8

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-98956	203	4/18/2008 2:41	B-6190	-14.3
W-98957	193	4/16/2008 22:50	B-6076	-24.2
W-98957	193	4/18/2008 3:09	B-6192	-24.0
W-98958	194	4/16/2008 23:19	B-6078	-23.8
W-98958	194	4/18/2008 3:38	B-6194	-24.2
W-98959	195	4/16/2008 23:47	B-6080	-25.7
W-98959	195	4/18/2008 4:07	B-6196	-26.1
W-98960	200	4/17/2008 0:16	B-6082	-6.4
W-98960	200	4/18/2008 5:04	B-6200	-6.4
W-98961	201	4/17/2008 0:45	B-6084	-43.3
W-98961	201	4/18/2008 5:33	B-6202	-43.0
W-98962	198	4/17/2008 1:42	B-6088	-28.3
W-98962	198	4/18/2008 6:02	B-6204	-28.2
W-98963	199	4/17/2008 2:11	B-6090	-19.9
W-98963	199	4/18/2008 6:30	B-6206	-20.1
W-98964	205	4/17/2008 2:39	B-6092	-10.0
W-98964	205	4/18/2008 6:59	B-6208	-9.5
W-98965	206	4/17/2008 3:08	B-6094	-5.9
W-98965	206	4/18/2008 7:28	B-6210	-6.1
W-98966	204	4/17/2008 3:37	B-6096	+2.5
W-98966	204	4/18/2008 7:56	B-6212	+2.2
W-98967	211	4/17/2008 4:05	B-6098	+0.5
W-98967	211	4/18/2008 8:54	B-6216	-0.3
W-98968	207	4/17/2008 4:34	B-6100	-10.8
W-98968	207	4/18/2008 9:23	B-6218	-11.2
W-98969	208	4/17/2008 5:32	B-6104	-22.4
W-98969	208	4/18/2008 9:51	B-6220	-22.4
W-98970	210	4/17/2008 6:00	B-6106	-25.4
W-98970	210	4/18/2008 10:20	B-6222	-25.9
W-98971	213	4/17/2008 6:29	B-6108	-21.7
W-98971	213	4/18/2008 13:33	B-6232	-20.9
W-98972	214	4/17/2008 6:58	B-6110	-11.4
W-98972	214	4/18/2008 14:02	B-6234	-10.4
W-98973	215	4/17/2008 7:26	B-6112	-10.7
W-98973	215	4/18/2008 14:31	B-6236	-10.5
W-98974	212	4/17/2008 7:55	B-6114	-14.4
W-98974	212	4/18/2008 14:59	B-6238	-13.8
W-98975	209	4/17/2008 8:24	B-6116	-33.2
W-98975	209	4/18/2008 15:28	B-6240	-32.4

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-98976	174	4/17/2008 9:21	B-6120	-120.6
W-98976	174	4/18/2008 15:57	B-6242	-120.0
W-98977	175	4/17/2008 9:50	B-6122	-106.2
W-98977	175	4/18/2008 16:25	B-6244	-105.4
W-98978	173	4/17/2008 10:18	B-6124	-101.9
W-98978	173	4/18/2008 17:23	B-6248	-101.2
W-98979	176	4/17/2008 10:47	B-6126	-124.1
W-98979	176	4/18/2008 17:52	B-6250	-124.0
W-98980	177	4/18/2008 18:20	B-6252	-122.6
W-98980	177	4/20/2008 15:30	B-6340	-122.1
W-98981	179	4/18/2008 18:49	B-6254	-119.9
W-98981	179	4/20/2008 15:59	B-6342	-119.1
W-98982	180	4/18/2008 19:18	B-6256	-119.6
W-98982	180	4/20/2008 16:27	B-6344	-119.4
W-98983	178	4/18/2008 19:46	B-6258	-119.5
W-98983	178	4/20/2008 16:56	B-6346	-119.2
W-98984	226	4/18/2008 20:15	B-6260	-83.3
W-98984	226	4/20/2008 17:25	B-6348	-83.0
W-98985	222	4/18/2008 21:12	B-6264	-100.8
W-98985	222	4/20/2008 17:53	B-6350	-101.1
W-98986	225	4/18/2008 21:41	B-6266	-125.6
W-98986	225	4/20/2008 18:22	B-6352	-125.8
W-98987	181	4/18/2008 22:10	B-6268	-107.8
W-98987	181	4/20/2008 19:19	B-6356	-107.5
W-98988	171	4/18/2008 22:38	B-6270	-129.4
W-98988	171	4/20/2008 19:48	B-6358	-129.2
W-98989	161	4/18/2008 23:07	B-6272	-133.9
W-98989	161	4/20/2008 20:17	B-6360	-134.3
W-98990	172	4/18/2008 23:36	B-6274	-116.5
W-98990	172	4/20/2008 20:45	B-6362	-115.5
W-98991	259	4/19/2008 0:04	B-6276	-140.1
W-98991	259	4/20/2008 21:14	B-6364	-140.0
W-98992	260	4/19/2008 1:02	B-6280	-139.9
W-98992	260	4/20/2008 21:43	B-6366	-139.8
W-98993	254	4/19/2008 1:31	B-6282	-125.1
W-98993	254	4/20/2008 22:12	B-6368	-125.0
W-98994	257	4/19/2008 1:59	B-6284	-133.1
W-98994	257	4/20/2008 23:09	B-6372	-133.6
W-98995	258	4/19/2008 2:28	B-6286	-125.5

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-98995	258	4/20/2008 23:38	B-6374	-125.6
W-98996	256	4/19/2008 2:57	B-6288	-134.4
W-98996	256	4/21/2008 0:06	B-6376	-134.8
W-98997	255	4/19/2008 3:25	B-6290	-134.2
W-98997	255	4/21/2008 0:35	B-6378	-135.0
W-98998	262	4/19/2008 3:54	B-6292	-125.2
W-98998	262	4/21/2008 1:04	B-6380	-125.5
W-98999	264	4/19/2008 4:51	B-6296	-128.9
W-98999	264	4/21/2008 1:32	B-6382	-129.5
W-99000	263	4/19/2008 5:20	B-6298	-129.7
W-99000	263	4/21/2008 2:01	B-6384	-130.1
W-99001	247	4/19/2008 5:49	B-6300	-110.5
W-99001	247	4/21/2008 2:59	B-6388	-110.4
W-99002	239	4/19/2008 6:18	B-6302	-126.5
W-99002	239	4/21/2008 3:27	B-6390	-126.5
W-99003	223	4/19/2008 6:46	B-6304	-108.4
W-99003	223	4/21/2008 3:56	B-6392	-108.2
W-99004	224	4/19/2008 7:15	B-6306	-108.8
W-99004	224	4/21/2008 4:25	B-6394	-108.6
W-99005	241	4/19/2008 7:44	B-6308	-103.7
W-99005	241	4/21/2008 4:53	B-6396	-103.6
W-99006	228	4/19/2008 8:41	B-6312	-95.3
W-99006	228	4/21/2008 5:22	B-6398	-95.8
W-99007	238	4/19/2008 9:10	B-6314	-93.3
W-99007	238	4/21/2008 5:51	B-6400	-94.0
W-99008	232	4/19/2008 9:38	B-6316	-65.6
W-99008	232	4/21/2008 6:48	B-6404	-66.0
W-99009	236	4/19/2008 10:07	B-6318	-68.6
W-99009	236	4/21/2008 7:17	B-6406	-69.2
W-99010	231	4/19/2008 10:36	B-6320	-93.4
W-99010	231	4/21/2008 7:45	B-6408	-94.2
W-99011	235	4/19/2008 11:04	B-6322	-66.2
W-99011	235	4/21/2008 8:14	B-6410	-66.8
W-99012	234	4/19/2008 11:33	B-6324	-66.4
W-99012	234	4/21/2008 8:43	B-6412	-66.8
W-99013	229	4/19/2008 12:02	B-6326	-75.8
W-99013	229	4/21/2008 9:12	B-6414	-76.0
W-99014	230	4/19/2008 12:30	B-6328	-77.3
W-99014	230	4/21/2008 9:40	B-6416	-77.6

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-99015	216	4/19/2008 12:59	B-6330	-72.5
W-99015	216	4/21/2008 10:38	B-6420	-72.9
W-99016	218	4/21/2008 11:06	B-6422	-74.3
W-99016	218	4/21/2008 14:50	B-6436	-74.1
W-99017	219	4/21/2008 11:35	B-6424	-90.1
W-99017	219	4/21/2008 15:19	B-6438	-89.5
W-99018	221	4/21/2008 12:04	B-6426	-51.8
W-99018	221	4/21/2008 15:48	B-6440	-51.8
W-99019	227	4/21/2008 16:16	B-6442	-97.7
W-99019	227	4/22/2008 15:20	B-6532	-98.0
W-99020	284	4/21/2008 16:45	B-6444	-73.3
W-99020	284	4/22/2008 15:49	B-6534	-73.8
W-99021	245	4/21/2008 17:14	B-6446	-77.1
W-99021	245	4/22/2008 16:18	B-6536	-76.8
W-99022	244	4/21/2008 17:42	B-6448	-76.6
W-99022	244	4/22/2008 16:46	B-6538	-76.6
W-99023	242	4/21/2008 18:40	B-6452	-129.9
W-99023	242	4/22/2008 17:15	B-6540	-130.1
W-99024	315	4/21/2008 19:09	B-6454	-68.7
W-99024	315	4/22/2008 17:44	B-6542	-68.6
W-99025	320	4/21/2008 19:37	B-6456	-81.1
W-99025	320	4/22/2008 18:13	B-6544	-81.0
W-99026	323	4/21/2008 20:06	B-6458	-78.1
W-99026	323	4/22/2008 19:10	B-6548	-78.0
W-99027	322	4/21/2008 20:35	B-6460	-79.6
W-99027	322	4/22/2008 19:39	B-6550	-79.5
W-99028	328	4/21/2008 21:03	B-6462	-69.8
W-99028	328	4/22/2008 20:07	B-6552	-70.3
W-99029	326	4/21/2008 21:32	B-6464	-70.6
W-99029	326	4/22/2008 20:36	B-6554	-71.0
W-99030	318	4/21/2008 22:29	B-6468	-60.9
W-99030	318	4/22/2008 21:05	B-6556	-62.1
W-99031	319	4/21/2008 22:58	B-6470	-71.6
W-99031	319	4/22/2008 21:33	B-6558	-72.9
W-99032	317	4/21/2008 23:27	B-6472	-57.4
W-99032	317	4/22/2008 22:02	B-6560	-59.1
W-99032	317	4/25/2008 12:43	B-6728	-57.3
W-99033	311	4/21/2008 23:56	B-6474	-41.1
W-99033	311	4/22/2008 23:00	B-6564	-41.5

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-99034	297	4/22/2008 0:24	B-6476	-68.2
W-99034	297	4/22/2008 23:28	B-6566	-68.2
W-99035	309	4/22/2008 0:53	B-6478	-48.4
W-99035	309	4/22/2008 23:57	B-6568	-48.6
W-99036	312	4/22/2008 1:22	B-6480	-61.7
W-99036	312	4/23/2008 1:23	B-6574	-63.2
W-99037	324	4/22/2008 2:19	B-6484	-123.5
W-99037	324	4/23/2008 1:52	B-6576	-124.4
W-99038	325	4/22/2008 2:48	B-6486	-111.6
W-99038	325	4/23/2008 2:49	B-6580	-111.0
W-99039	308	4/22/2008 3:16	B-6488	-47.3
W-99039	308	4/23/2008 3:18	B-6582	-47.0
W-99040	310	4/22/2008 3:45	B-6490	-49.9
W-99040	310	4/23/2008 3:46	B-6584	-49.7
W-99041	303	4/22/2008 4:14	B-6492	-75.3
W-99041	303	4/23/2008 4:15	B-6586	-75.0
W-99042	304	4/22/2008 4:43	B-6494	-73.1
W-99042	304	4/23/2008 4:44	B-6588	-72.1
W-99043	302	4/22/2008 5:11	B-6496	-62.0
W-99043	302	4/23/2008 5:13	B-6590	-61.8
W-99044	300	4/22/2008 6:09	B-6500	-74.0
W-99044	300	4/23/2008 5:41	B-6592	-73.8
W-99045	307	4/22/2008 6:37	B-6502	-39.7
W-99045	307	4/23/2008 6:39	B-6596	-39.3
W-99046	301	4/22/2008 7:06	B-6504	-28.1
W-99046	301	4/23/2008 7:07	B-6598	-27.6
W-99047	313	4/22/2008 7:35	B-6506	-31.1
W-99047	313	4/23/2008 7:36	B-6600	-30.6
W-99048	314	4/22/2008 8:03	B-6508	-33.6
W-99048	314	4/23/2008 8:05	B-6602	-33.3
W-99049	306	4/22/2008 8:32	B-6510	-49.8
W-99049	306	4/23/2008 8:33	B-6604	-49.4
W-99050	298	4/22/2008 9:01	B-6512	-84.9
W-99050	298	4/23/2008 9:02	B-6606	-84.4
W-99051	299	4/22/2008 9:58	B-6516	-90.2
W-99051	299	4/23/2008 9:31	B-6608	-89.9
W-99052	289	4/22/2008 10:27	B-6518	-50.2
W-99052	289	4/23/2008 10:28	B-6612	-49.4
W-99053	287	4/22/2008 10:56	B-6520	-54.9

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-99053	287	4/23/2008 10:57	B-6614	-54.1
W-99054	286	4/22/2008 11:24	B-6522	-55.9
W-99054	286	4/30/2008 13:08	B-7028	-55.3
W-99055	288	4/25/2008 13:11	B-6730	-56.3
W-99055	288	4/30/2008 13:37	B-7030	-57.1
W-99056	296	4/25/2008 13:40	B-6732	-53.9
W-99056	296	4/30/2008 14:05	B-7032	-53.8
W-99057	295	4/25/2008 14:09	B-6734	-41.0
W-99057	295	4/30/2008 14:34	B-7034	-40.8
W-99058	292	4/25/2008 14:37	B-6736	-71.8
W-99058	292	4/30/2008 15:03	B-7036	-71.9
W-99059	293	4/25/2008 15:06	B-6738	-71.1
W-99059	293	4/30/2008 15:31	B-7038	-71.1
W-99060	291	4/25/2008 15:35	B-6740	-71.3
W-99060	291	4/30/2008 16:00	B-7040	-71.1
W-99061	294	4/25/2008 16:32	B-6744	-82.2
W-99061	294	4/30/2008 16:57	B-7044	-81.9
W-99062	243	4/25/2008 17:01	B-6746	-109.0
W-99062	243	4/30/2008 17:26	B-7046	-109.0
W-99063	340	4/25/2008 17:30	B-6748	-5.1
W-99063	340	4/30/2008 17:55	B-7048	-5.4
W-99064	342	4/25/2008 17:58	B-6750	-13.5
W-99064	342	4/30/2008 18:24	B-7050	-13.6
W-99065	343	4/25/2008 18:27	B-6752	-13.4
W-99065	343	4/30/2008 18:52	B-7052	-13.2
W-99066	341	4/25/2008 18:56	B-6754	-29.9
W-99066	341	4/30/2008 19:21	B-7054	-29.8
W-99067	344	4/25/2008 19:24	B-6756	-9.7
W-99067	344	4/30/2008 19:50	B-7056	-10.0
W-99068	349	4/25/2008 20:22	B-6760	-40.9
W-99068	349	4/30/2008 20:47	B-7060	-40.6
W-99069	272	4/25/2008 20:50	B-6762	-71.1
W-99069	272	4/30/2008 21:16	B-7062	-71.4
W-99070	273	4/25/2008 21:19	B-6764	-71.7
W-99070	273	4/30/2008 21:44	B-7064	-71.5
W-99071	269	4/25/2008 22:45	B-6770	-71.3
W-99071	269	4/30/2008 23:11	B-7070	-71.0
W-99072	267	4/25/2008 23:14	B-6772	-62.0
W-99072	267	4/30/2008 23:39	B-7072	-62.3

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-99073	270	4/26/2008 0:11	B-6776	-62.4
W-99073	270	5/1/2008 0:37	B-7076	-63.0
W-99074	271	4/26/2008 0:40	B-6778	-73.3
W-99074	271	5/1/2008 1:05	B-7078	-73.4
W-99075	275	4/26/2008 1:09	B-6780	-43.6
W-99075	275	5/1/2008 1:34	B-7080	-44.3
W-99076	274	4/26/2008 1:37	B-6782	-90.5
W-99076	274	5/1/2008 2:03	B-7082	-91.6
W-99077	290	4/26/2008 2:06	B-6784	-110.5
W-99077	290	5/1/2008 2:31	B-7084	-111.9
W-99078	279	4/26/2008 2:35	B-6786	-76.5
W-99078	279	5/1/2008 3:00	B-7086	-76.0
W-99079	281	4/26/2008 3:03	B-6788	-75.1
W-99079	281	5/1/2008 3:29	B-7088	-74.8
W-99080	278	4/26/2008 4:01	B-6792	-75.7
W-99080	278	5/1/2008 4:26	B-7092	-75.9
W-99081	280	4/26/2008 4:30	B-6794	-75.6
W-99081	280	5/1/2008 4:55	B-7094	-75.7
W-99082	282	4/26/2008 4:58	B-6796	-75.2
W-99082	282	5/1/2008 5:24	B-7096	-75.8
W-99083	285	4/26/2008 5:27	B-6798	-75.6
W-99083	285	5/1/2008 5:52	B-7098	-75.7
W-99084	277	4/26/2008 5:56	B-6800	-79.9
W-99084	277	5/1/2008 6:21	B-7100	-79.9
W-99085	276	4/26/2008 6:24	B-6802	-84.2
W-99085	276	5/1/2008 6:50	B-7102	-84.6
W-99086	283	4/26/2008 6:53	B-6804	-79.9
W-99086	283	5/1/2008 7:18	B-7104	-80.3
W-99087	265	4/26/2008 7:50	B-6808	-80.3
W-99087	265	5/1/2008 8:16	B-7108	-80.8
W-99088	251	4/26/2008 8:19	B-6810	-110.9
W-99088	251	5/1/2008 8:44	B-7110	-111.2
W-99089	252	4/27/2008 14:48	B-6824	-111.1
W-99089	252	4/28/2008 14:40	B-6892	-111.4
W-99090	253	4/27/2008 15:16	B-6826	-130.0
W-99090	253	4/28/2008 15:09	B-6894	-129.8
W-99091	336	4/27/2008 15:45	B-6828	-145.6
W-99091	336	4/28/2008 15:37	B-6896	-145.1
W-99092	339	4/27/2008 16:14	B-6830	-164.1

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-99092	339	4/28/2008 16:06	B-6898	-163.5
W-99093	337	4/27/2008 16:43	B-6832	-153.9
W-99093	337	4/28/2008 16:35	B-6900	-153.7
W-99094	338	4/27/2008 17:11	B-6834	-153.8
W-99094	338	4/28/2008 17:03	B-6902	-154.2
W-99095	329	4/27/2008 17:40	B-6836	-103.9
W-99095	329	4/28/2008 17:32	B-6904	-104.3
W-99096	330	4/27/2008 18:37	B-6840	-94.5
W-99096	330	4/28/2008 18:30	B-6908	-93.7
W-99097	331	4/27/2008 19:06	B-6842	-104.1
W-99097	331	4/28/2008 18:58	B-6910	-103.5
W-99098	10	4/27/2008 19:35	B-6844	-34.6
W-99098	10	4/28/2008 19:27	B-6912	-34.4
W-99099	22	4/27/2008 20:03	B-6846	-36.4
W-99099	22	4/28/2008 19:56	B-6914	-35.8
W-99100	23	4/27/2008 20:32	B-6848	-57.1
W-99100	23	4/28/2008 20:24	B-6916	-57.3
W-99101	103	4/27/2008 21:01	B-6850	-54.2
W-99101	103	4/28/2008 20:53	B-6918	-54.1
W-99102	43	4/27/2008 21:30	B-6852	-49.2
W-99102	43	4/28/2008 21:22	B-6920	-49.2
W-99103	70	4/27/2008 22:27	B-6856	-6.0
W-99103	70	4/28/2008 22:19	B-6924	-6.0
W-99104	80	4/27/2008 22:56	B-6858	-18.1
W-99104	80	4/28/2008 22:48	B-6926	-18.3
W-99105	112	4/27/2008 23:24	B-6860	-25.8
W-99105	112	4/28/2008 23:17	B-6928	-25.2
W-99106	119	5/12/2008 18:53	B-10338	-42.8
W-99106	119	4/28/2008 0:50	B-6866	-42.0
W-99106	119	4/29/2008 0:43	B-6934	-43.5
W-99107	84	4/28/2008 1:19	B-6868	-25.2
W-99107	84	4/29/2008 1:11	B-6936	-26.4
W-99108	89	4/28/2008 2:17	B-6872	-59.2
W-99108	89	4/29/2008 2:09	B-6940	-59.9
W-99109	163	4/28/2008 2:45	B-6874	-116.7
W-99109	163	4/29/2008 2:37	B-6942	-116.4
W-99110	138	4/28/2008 3:14	B-6876	-45.6
W-99110	138	4/29/2008 3:06	B-6944	-45.9
W-99111	148	4/28/2008 3:43	B-6878	-21.3

Appendix D. Measurement Results for Los Gatos Research Isotope-Laser Spectrometry $\delta^2\text{H}$ Analyses—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; dates are shown by month/day/year; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale]

OurLabID	Site number	Analysis date/time	Analysis number	$\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)
W-99111	148	4/29/2008 3:35	B-6946	-21.1
W-99112	220	4/28/2008 4:11	B-6880	-72.2
W-99112	220	4/29/2008 4:03	B-6948	-71.9
W-99113	196	4/29/2008 4:32	B-6950	-108.2
W-99113	196	4/29/2008 14:56	B-6988	-107.7
W-99114	261	4/29/2008 5:01	B-6952	-125.5
W-99114	261	4/29/2008 15:25	B-6990	-124.9
W-99115	240	4/29/2008 5:58	B-6956	-127.1
W-99115	240	4/29/2008 15:54	B-6992	-126.8
W-99116	233	4/29/2008 6:27	B-6958	-68.6
W-99116	233	4/29/2008 16:22	B-6994	-68.3
W-99117	217	4/29/2008 6:56	B-6960	-98.2
W-99117	217	4/29/2008 16:51	B-6996	-97.9
W-99118	14	4/29/2008 7:24	B-6962	-40.2
W-99118	14	4/29/2008 17:20	B-6998	-39.7
W-99119	246	4/29/2008 7:53	B-6964	-109.3
W-99119	246	4/29/2008 17:48	B-7000	-109.0
W-99120	316	4/29/2008 8:22	B-6966	-86.8
W-99120	316	4/29/2008 18:46	B-7004	-86.7
W-99121	321	4/29/2008 8:50	B-6968	-66.9
W-99121	321	4/29/2008 19:15	B-7006	-66.9
W-99122	305	4/29/2008 9:48	B-6972	-75.5
W-99122	305	4/29/2008 19:43	B-7008	-75.3
W-99123	345	4/29/2008 10:16	B-6974	-10.5
W-99123	345	4/29/2008 20:12	B-7010	-10.3
W-99124	348	5/12/2008 19:23	B-10340	-15.7
W-99124	348	4/29/2008 20:41	B-7012	-14.8
W-99125	268	5/12/2008 20:51	B-10346	-69.1
W-99125	268	4/29/2008 21:09	B-7014	-67.4
W-99126	266	5/12/2008 21:20	B-10348	-71.3
W-99126	266	4/29/2008 21:38	B-7016	-70.3
W-99127	335	5/9/2008 18:26	B-10126	-144.3
W-99127	335	5/12/2008 22:19	B-10352	-145.7
W-99128	333	5/9/2008 18:55	B-10128	-92.5
W-99128	333	5/12/2008 22:48	B-10354	-93.5
W-99129	334	5/9/2008 19:24	B-10130	-97.0
W-99129	334	5/12/2008 23:18	B-10356	-98.6
W-99130	332	5/9/2008 19:54	B-10132	-82.7
W-99130	332	5/12/2008 23:47	B-10358	-84.5

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94262	347	-4.2	1.2	2			
W-94263	346	-7.5	0.6	2			
W-94264	9	-51.1	0.5	2			
W-94265	8	-57.2	1.9	4			
W-94266	5	-46.5	0.7	2			
W-94267	10	-33.0	0.5	2			
W-94268	15	-45.1	0.7	2			
W-94269	13	-44.7	0.6	2			
W-94270	6	-61.0	1.1	2			
W-94271	4	-60.9	0.6	2			
W-94272	23	-61.3	1.4	3			
W-94273	3	-69.9	0.3	2			
W-94274	2	-70.0	1.0	3			
W-94275	17	-71.8	0.4	2			
W-94276	18	-73.7	1.0	2			
W-94277	7	-51.6	0.6	2			
W-94278	16	-50.2	0.5	2			
W-94279	22	-33.0	0.4	2			
W-94280	26	-48.1	0.6	2			
W-94281	24	-44.1	0.4	2			
W-94282	20	-62.4	0.4	2			
W-94283	96	-72.5	0.2	2			
W-94284	98	-49.8	0.6	2			
W-94285	97	-56.8	0.2	2			
W-94286	101	-72.4	0.2	2			
W-94287	99	-60.8	0.3	2			
W-94288	100	-58.5	0.7	2			
W-94289	103	-48.2	0.5	2			
W-94290	30	-58.7	0.1	2			
W-94291	32	-61.4	0.7	2			
W-94293	33	-50.1	0.1	2			
W-94294	31	-44.8	0.6	2			
W-94295	29	-55.8	0.1	2			
W-94296	28	-41.8	0.4	2			
W-94297	27	-43.5	0.1	2			
W-94298	25	-35.1	0.6	2			

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94299	40	-41.7	0.6	2			
W-94300	43	-40.3	0.2	2			
W-94301	38	-41.7	0.0	2			
W-94302	39	-42.2	0.4	2			
W-94303	36	-39.6	1.1	3			
W-94304	37	-40.0	0.0	2			
W-94305	35	-44.2	0.9	2			
W-94306	34	-43.3	0.2	2			
W-94307	41	-53.3	0.8	2			
W-94308	47	-38.2	0.3	2			
W-94309	45	-42.0	0.8	3			
W-94310	48	-34.5	0.6	2			
W-94311	105	-38.9	0.6	2			
W-94312	120	-52.8	0.5	2			
W-94313	106	-41.1	0.5	2			
W-94314	44	-47.9	0.8	2			
W-94315	102	-44.1	0.5	2			
W-94316	49	-16.8	0.7	2			
W-94317	135	-57.9	0.4	2			
W-94318	51	-21.4	0.9	2			
W-94319	53	-21.5	0.8	2			
W-94320	116	-30.7	0.9	2			
W-94321	56	-15.1	0.7	2			
W-94322	55	-16.6	0.4	2			
W-94323	54	-16.7	1.3	2			
W-94324	52	-23.4	1.4	3			
W-94325	58	-15.1	0.7	2			
W-94327	77	-20.1	0.9	2			
W-94328	138	-43.5	1.0	2			
W-94330	76	-20.0	1.1	2			
W-94331	59	-19.8	0.6	2			
W-94332	60	-13.9	0.4	2			
W-94333	57	-17.8	0.0	2			
W-94334	75	-17.7	0.1	2			
W-94335	73	-19.3	0.1	2			
W-94336	74	-11.8	0.1	2			

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94337	78	-19.7	0.4	2			
W-94338	61	-10.2	1.0	3			
W-94339	62	-9.1	0.2	2			
W-94340	72	-18.3	0.6	2			
W-94341	63	-7.4	1.3	3			
W-94342	69	-11.9	0.7	2			
W-94343	68	-4.2	1.0	3			
W-94344	64	-11.9	0.9	2			
W-94345	65	-0.5	0.1	2			
W-94347	1	-69.0	0.0	2			
W-94348	70	-10.2	0.9	3			
W-94349	71	-7.4	0.3	2			
W-94350	67	-3.8	0.5	2			
W-94351	66	-3.1	0.3	2			
W-94352	81	-18.8	1.2	3			
W-94353	80	-14.1	0.6	2			
W-94354	79	-10.7	0.8	2			
W-94355	112	-26.2	0.9	2			
W-94356	119	-42.2	0.9	3			
W-94357	118	-33.6	0.4	2			
W-94358	117	-33.9	0.6	2			
W-94359	142	-28.6	1.0	2			
W-94360	113	-24.1	0.9	3			
W-94361	146	-23.0	0.3	2			
W-94362	147	-25.1	0.9	3			
W-94364	84	-27.1	0.8	2			
W-94365	83	-23.6	0.8	2			
W-94366	82	-27.7	1.0	2			
W-94367	114	-43.8	0.5	2			
W-94368	111	-31.1	0.9	2			
W-94369	115	-26.1	0.3	2			
W-94370	108	-40.8	0.0	2			
W-94371	107	-39.8	0.8	2			
W-94372	104	-52.2	0.7	2			
W-94373	94	-49.4	0.5	2			
W-94374	110	-33.4	0.5	2			

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94375	87	-56.1	0.6	2			
W-94376	92	-50.4	0.8	2			
W-94377	89	-59.9	0.9	3			
W-94379	90	-76.5	0.9	3			
W-94380	91	-80.1	1.0	3			
W-94381	86	-44.8	0.7	2			
W-94384	130	-47.0	0.5	2			
W-94385	137	-53.9	0.2	2			
W-94386	184	-78.8	0.8	2			
W-94387	129	-41.1	0.1	2			
W-94388	88	-43.8	0.2	2			
W-94389	136	-56.2	0.4	2			
W-94390	132	-56.8	0.2	2			
W-94391	302	-73.4	0.3	2			
W-94392	133	-57.8	0.0	2			
W-94393	134	-58.9	0.0	2			
W-94394	127	-65.1	0.4	2			
W-94395	128	-64.3	0.6	2			
W-94396	125	-58.9	0.1	2			
W-94397	85	-65.0	0.1	2			
W-94398	126	-65.4	0.5	2			
W-94399	123	-49.1	0.8	3			
W-94400	124	-49.2	1.1	2			
W-94401	122	-53.8	0.9	3			
W-94402	121	-50.6	0.4	2			
W-94404	237	-60.7	0.9	3			
W-94405	141	-50.0	1.0	2			
W-94406	167	-72.0	0.1	2			
W-94407	169	-101.7	0.2	2			
W-94408	168	-67.5	0.4	2			
W-94409	166	-103.6	0.4	2			
W-94410	164	-108.0	0.9	2			
W-94411	162	-103.7	0.7	2			
W-94412	154	-49.8	0.2	2			
W-94413	165	-107.4	0.2	2			
W-94414	163	-117.2	0.1	2			

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94415	160	-128.4	0.9	3			
W-94416	159	-122.5	0.2	2			
W-94417	158	-132.7	1.4	3			
W-94418	156	-140.3	1.5	3			
W-94419	155	-141.7	1.9	3			
W-94420	157	-139.1	0.1	2			
W-94421	250	-129.5	0.8	2			
W-94423	248	-122.8	1.1	3			
W-94424	249	-123.9	0.0	2			
W-94425	131	-49.8	0.7	2			
W-94426	109	-41.2	0.8	2			
W-94427	139	-26.4	0.1	2			
W-94429	192	-61.0	0.5	2			
W-94430	188	-43.9	0.7	2			
W-94431	93	-52.5	1.0	2			
W-94433	191	-43.3	0.0	2			
W-94434	140	-40.1	0.6	2			
W-94435	186	-19.7	0.8	2			
W-94436	187	-34.5	1.1	2			
W-94438	185	-40.1	0.7	2			
W-94439	182	-52.7	0.4	2			
W-94441	183	-66.1	1.1	3			
W-94442	170	-91.6	0.8	2			
W-94443	151	-20.7	1.1	3			
W-94444	150	-23.9	0.6	2			
W-94445	148	-21.0	1.0	3			
W-94446	149	-22.7	1.3	3			
W-94447	145	-26.4	0.6	2			
W-94448	202	-13.9	0.9	2			
W-94449	203	-13.9	0.7	2			
W-94450	193	-27.5	0.8	2			
W-94451	195	-27.9	0.5	2			
W-94452	194	-27.8	1.1	3			
W-94453	200	-4.7	1.3	3			
W-94455	198	-29.8	0.8	2			
W-94456	199	-22.2	1.0	2			

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94457	206	-10.5	1.1	3			
W-94458	204	-1.4	0.9	2			
W-94459	211	+2.2	1.0	3			
W-94460	208	-24.0	2.0	3			
W-94461	210	-25.3	1.4	3			
W-94462	213	-22.7	1.7	3			
W-94463	215	-10.0	1.0	2			
W-94465	212	-9.9	0.2	2			
W-94466	209	-30.3	0.2	2			
W-94467	220	-69.2	1.5	3			
W-94469	174	-122.8	0.7	2			
W-94470	173	-121.6	1.7	3			
W-94471	177	-124.1	0.5	2			
W-94472	179	-116.8	0.6	2			
W-94473	178	-115.9	0.8	2			
W-94474	196	-108.3	0.1	2			
W-94475	226	-84.7	0.9	2			
W-94476	222	-98.6	1.2	3			
W-94477	225	-126.0	0.5	2			
W-94478	181	-112.1	0.8	2			
W-94479	171	-125.6	1.2	3			
W-94480	161	-126.0	1.4	3			
W-94481	172	-116.0	0.8	2			
W-94482	259	-139.3	0.8	2			
W-94483	254	-126.6	0.7	2			
W-94484	258	-128.6	1.2	3			
W-94485	264	-125.2	1.2	3			
W-94486	255	-132.3	0.3	2			
W-94487	256	-131.3	1.0	3			
W-94488	261	-124.8	0.7	2			
W-94489	262	-127.4	1.1	2			
W-94490	263	-129.0	0.8	2			
W-94491	247	-110.1	0.5	2			
W-94492	240	-117.9	0.7	2			
W-94493	239	-126.9	0.7	2			
W-94494	223	-107.9	0.7	2			

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94495	224	-108.8	0.4	2			
W-94496	241	-102.9	0.2	2			
W-94497	236	-62.4	1.0	2			
W-94498	231	-94.4	0.9	2			
W-94499	233	-66.5	1.0	2			
W-94500	235	-65.9	1.1	2			
W-94501	234	-68.2	1.4	3			
W-94502	229	-86.4	0.6	2			
W-94503	230	-79.5	0.2	2			
W-94504	217	-93.1	1.0	3			
W-94506	216	-73.0	0.6	2			
W-94507	218	-75.1	1.3	3			
W-94508	232	-65.8	0.3	2			
W-94509	219	-88.8	0.4	2			
W-94510	221	-52.7	0.2	2			
W-94511	327	-103.2	0.3	2			
W-94512	227	-98.9	1.0	3			
W-94515	246	-118.1	0.0	2			
W-94516	242	-131.5	1.1	3			
W-94517	315	-63.4	1.5	3			
W-94518	320	-83.8	1.1	2			
W-94519	322	-78.6	1.2	3			
W-94520	323	-83.1	1.0	2			
W-94521	321	-79.3	1.0	3			
W-94522	328	-68.3	0.6	2			
W-94523	326	-73.6	1.3	3			
W-94524	95	-49.6	1.4	3			
W-94525	319	-69.5	0.1	2			
W-94526	317	-56.3	0.3	2			
W-94527	180	-115.4	0.6	2			
W-94528	311	-31.7	0.1	2			
W-94529	297	-68.3	0.3	2			
W-94530	309	-46.9	0.5	2			
W-94531	316	-79.2	0.4	2			
W-94532	312	-63.7	0.8	2			
W-94533	324	-122.4	0.4	2			

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94534	325	-110.3	0.6	2			
W-94535	308	-44.2	0.1	2			
W-94536	304	-98.8	1.6	3			
W-94537	303	-97.3	0.9	2			
W-94538	50	-16.9	0.5	2			
W-94539	300	-99.3	0.2	2			
W-94540	307	-69.0	0.0	2			
W-94541	301	-28.0	0.1	2			
W-94542	313	-31.3	0.2	2			
W-94543	314	-32.2	0.4	2			
W-94544	298	-86.5	0.1	2			
W-94545	289	-52.0	0.1	2			
W-94546	287	-55.7	0.3	2			
W-94547	288	-54.5	2.0	3			
W-94548	286	-55.8	0.4	2			
W-94549	296	-55.3	1.2	3			
W-94550	295	-40.8	0.2	2			
W-94551	331	-110.6	0.5	2			
W-94552	310	-44.4	0.8	2			
W-94553	293	-75.0	0.4	2			
W-94554	292	-75.1	0.9	2			
W-94555	291	-75.1	0.3	2			
W-94556	294	-83.6	0.2	2			
W-94557	243	-108.7	0.0	2			
W-94558	340	-3.0	0.4	2			
W-94559	207	-7.8	0.5	2			
W-94560	342	-12.9	0.2	2			
W-94561	343	-12.9	0.4	2			
W-94563	341	-22.6	0.5	2			
W-94564	345	-10.8	0.3	2			
W-94565	273	-71.5	0.8	2			
W-94567	344	-10.6	0.4	2			
W-94568	348	-31.5	0.5	2			
W-94569	349	-40.6	0.8	3			
W-94570	272	-75.8	0.6	2			
W-94571	269	-81.2	1.4	3			

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94572	267	-69.7	1.1	3			
W-94573	332	-82.2	0.8	2			
W-94575	268	-81.4	0.9	2			
W-94576	275	-41.4	0.2	2			
W-94577	274	-88.8	0.8	2			
W-94578	290	-110.5	0.0	2			
W-94579	279	-74.2	0.8	2			
W-94580	281	-75.2	0.5	2			
W-94581	333	-88.4	0.8	2			
W-94582	282	-74.5	0.8	2			
W-94583	278	-74.0	1.3	3			
W-94584	280	-75.2	0.7	2			
W-94585	334	-101.7	1.3	3			
W-94586	285	-74.8	1.4	3			
W-94587	277	-79.2	1.5	3			
W-94588	276	-86.9	0.4	2			
W-94589	283	-81.9	0.1	2			
W-94590	265	-80.8	0.6	2			
W-94591	266	-68.6	0.2	2			
W-94592	251	-109.1	0.3	2			
W-94593	252	-109.5	1.0	2			
W-94594	253	-128.8	0.5	2			
W-94595	336	-147.7	1.5	4			
W-94596	19	-76.3	1.4	3			
W-94597	260	-138.2	0.8	2			
W-94598	335	-142.8	0.5	2			
W-94599	339	-162.1	0.6	2			
W-94600	152	-32.3	0.8	2			
W-94601	257	-134.9	0.2	2			
W-94602	337	-153.4	0.9	3			
W-94603	338	-153.3	1.0	3			
W-94604	329	-108.5	0.3	2			
W-94605	330	-93.9	1.0	3			
W-94606	46	-42.5	0.8	2			
W-94607	306	-48.1	1.0	3			
W-94608	175	-107.1	0.6	2			

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94609	176	-118.7	0.5	2			
W-94611	153	-22.3	0.6	2			
W-94612	11	-44.0	1.0	2			
W-94613	42	-44.9	0.8	2			
W-94614	245	-70.8	1.0	2			
W-94615	21	-55.5	0.7	2			
W-94617	143	-30.2	0.4	2			
W-94618	144	-29.1	0.6	2			
W-94619	214	-10.5	1.0	2			
W-94620	205	-11.8	1.1	2			
W-94621	228	-95.3	0.5	2			
W-94942	190	-43.3	0.7	2			
W-94943	244	-71.6	0.3	2			
W-94944	271	-82.2	0.2	2			
W-94945	318	-61.3	0.3	2			
W-94946	284	-73.9	0.7	2			
W-94947	201	-43.1	0.9	2			
W-94948	197	-26.4	0.1	2			
W-94949	299	-82.9	0.6	2			
W-94950	270	-81.0	0.0	2			
W-94951	305	-98.7	0.7	2			
W-98693	347				-7.4	0.9	2
W-98694	346				-10.5	0.6	2
W-98695	9				-55.5	0.5	2
W-98696	8				-56.2	0.3	2
W-98697	5				-44.1	0.2	2
W-98698	11				-43.6	0.3	2
W-98699	15				-42.4	0.0	2
W-98700	12				-39.6	0.4	2
W-98701	6				-61.3	0.4	2
W-98702	4				-61.9	0.1	2
W-98703	1				-68.6	0.0	2
W-98704	2				-68.1	0.2	2
W-98705	3				-68.2	0.2	2
W-98706	17				-71.5	0.0	2
W-98707	18				-71.8	0.1	2

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-98708	19				-75.1	0.3	2
W-98709	7				-48.5	0.4	2
W-98710	16				-46.2	0.6	2
W-98711	26				-52.6	0.0	2
W-98712	24				-45.6	0.1	2
W-98713	20				-60.2	0.1	2
W-98714	21				-54.8	0.2	2
W-98715	96				-71.7	0.9	2
W-98716	98				-48.6	0.4	2
W-98810	97				-58.3	0.3	2
W-98811	101				-80.5	0.2	2
W-98812	99				-61.0	0.4	2
W-98813	100				-67.1	0.1	2
W-98814	30				-59.1	0.0	2
W-98815	32				-62.1	0.4	2
W-98816	33				-48.3	0.6	2
W-98817	31				-54.0	0.1	2
W-98818	29				-55.2	0.2	2
W-98819	28				-44.5	0.1	2
W-98820	27				-44.7	0.0	2
W-98821	25				-36.2	0.0	2
W-98822	38				-45.8	0.3	2
W-98823	40				-44.9	0.4	2
W-98824	39				-45.4	0.1	2
W-98825	42				-45.3	0.1	2
W-98826	37				-38.7	0.4	2
W-98827	36				-38.6	0.1	2
W-98828	35				-39.7	0.0	2
W-98829	34				-43.7	0.4	2
W-98830	41				-58.3	0.7	2
W-98831	47				-38.1	0.1	2
W-98832	46				-35.9	0.3	2
W-98833	45				-35.8	0.2	2
W-98834	48				-38.3	0.1	2
W-98835	105				-40.4	0.8	2
W-98836	120				-51.6	0.6	2

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-98837	106				-43.6	0.8	2
W-98838	44				-47.3	1.1	2
W-98839	102				-46.9	0.7	2
W-98840	49				-12.5	0.8	2
W-98841	50				-12.6	0.4	2
W-98842	53				-17.9	0.6	2
W-98843	116				-29.5	0.1	2
W-98844	51				-20.9	0.1	2
W-98845	56				-12.6	0.2	2
W-98846	55				-12.6	0.3	2
W-98847	54				-12.6	0.4	2
W-98848	52				-24.4	0.3	2
W-98849	58				-16.2	0.4	2
W-98850	77				-15.3	0.5	2
W-98851	76				-15.7	0.1	2
W-98852	59				-25.7	0.0	2
W-98853	60				-24.3	0.5	2
W-98854	57				-14.7	0.1	2
W-98855	75				-18.9	0.0	2
W-98856	73				-19.5	0.1	2
W-98857	74				-10.2	0.4	2
W-98858	78				-21.3	0.6	2
W-98859	72				-18.7	0.5	2
W-98860	62				-10.0	0.1	2
W-98861	61				-9.4	0.0	2
W-98862	63				-7.5	0.1	2
W-98863	69				-11.6	0.5	2
W-98864	68				-3.7	0.1	2
W-98865	64				-12.3	0.4	2
W-98866	65				-1.6	0.1	2
W-98867	71				-5.3	0.4	2
W-98868	67				-4.4	0.1	2
W-98869	66				-3.9	0.3	2
W-98870	81				-14.6	0.1	2
W-98871	79				-19.8	0.0	2
W-98872	117				-32.2	0.2	2

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-98873	118				-31.8	0.0	2
W-98874	142				-28.6	0.3	2
W-98875	143				-27.9	0.6	2
W-98876	144				-28.1	0.4	2
W-98877	113				-24.4	0.5	2
W-98878	146				-24.1	0.5	2
W-98879	147				-25.2	0.1	2
W-98880	83				-23.1	0.1	2
W-98881	82				-28.2	0.1	2
W-98882	114				-44.9	0.5	2
W-98883	111				-31.0	0.2	2
W-98884	115				-33.9	0.1	2
W-98885	108				-46.1	0.2	2
W-98886	107				-46.2	0.3	2
W-98887	95				-50.6	0.0	2
W-98888	104				-52.7	0.1	2
W-98889	94				-52.1	0.1	2
W-98890	110				-39.7	0.3	2
W-98891	87				-57.6	0.4	2
W-98892	92				-60.7	0.4	2
W-98893	93				-54.8	0.3	2
W-98894	90				-77.3	0.2	2
W-98895	91				-81.4	0.3	2
W-98896	86				-48.3	0.1	2
W-98897	130				-48.7	0.4	2
W-98898	137				-56.3	0.3	2
W-98899	184				-84.6	0.4	2
W-98900	129				-46.9	0.5	2
W-98901	88				-44.2	0.3	2
W-98902	136				-57.9	0.1	2
W-98903	132				-58.0	0.2	2
W-98904	135				-58.8	0.1	2
W-98905	133				-58.1	0.1	2
W-98906	134				-59.5	0.1	2
W-98907	127				-67.4	0.2	2
W-98908	128				-65.6	0.1	2

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-98909	125				-60.1	0.6	2
W-98910	85				-69.2	0.4	2
W-98911	126				-66.6	0.4	2
W-98912	123				-52.6	0.8	2
W-98913	124				-52.5	0.8	2
W-98914	122				-59.8	0.6	2
W-98915	121				-58.6	0.9	2
W-98916	167				-72.0	0.6	2
W-98917	169				-100.9	0.5	2
W-98918	168				-67.3	0.3	2
W-98919	166				-102.9	0.4	2
W-98920	164				-104.9	0.9	2
W-98921	162				-99.1	0.8	2
W-98922	154				-57.8	0.7	2
W-98923	165				-107.3	0.6	2
W-98924	160				-134.2	0.9	2
W-98925	159				-119.5	1.0	2
W-98926	158				-128.8	0.7	2
W-98927	155				-139.4	0.8	3
W-98928	156				-139.3	1.0	3
W-98929	157				-139.4	0.9	3
W-98930	250				-130.0	0.7	3
W-98931	248				-124.0	0.8	3
W-98932	249				-124.9	1.1	4
W-98933	131				-50.5	0.9	3
W-98934	109				-42.6	1.2	3
W-98935	139				-22.1	0.9	2
W-98936	141				-65.5	0.4	2
W-98937	192				-55.5	0.9	2
W-98938	188				-45.6	0.5	2
W-98939	191				-43.5	0.8	3
W-98940	189				-58.7	0.4	2
W-98941	140				-37.8	0.4	2
W-98942	186				-46.4	0.4	2
W-98943	187				-33.7	0.1	2
W-98944	197				-24.0	0.2	2

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-98945	185				-42.8	0.2	2
W-98946	182				-58.4	0.2	2
W-98947	183				-66.1	0.3	2
W-98948	170				-91.0	0.0	2
W-98949	152				-40.3	0.2	2
W-98950	153				-21.5	0.3	2
W-98951	151				-19.5	0.1	2
W-98952	149				-22.0	0.2	2
W-98953	150				-21.8	0.1	2
W-98954	145				-26.3	0.0	2
W-98955	202				-25.2	0.1	2
W-98956	203				-14.6	0.3	2
W-98957	193				-24.1	0.1	2
W-98958	194				-24.0	0.3	2
W-98959	195				-25.9	0.3	2
W-98960	200				-6.4	0.0	2
W-98961	201				-43.2	0.2	2
W-98962	198				-28.2	0.0	2
W-98963	199				-20.0	0.1	2
W-98964	205				-9.8	0.3	2
W-98965	206				-6.0	0.1	2
W-98966	204				+2.3	0.2	2
W-98967	211				+0.1	0.6	2
W-98968	207				-11.0	0.3	2
W-98969	208				-22.4	0.0	2
W-98970	210				-25.6	0.3	2
W-98971	213				-21.3	0.6	2
W-98972	214				-10.9	0.7	2
W-98973	215				-10.6	0.1	2
W-98974	212				-14.1	0.4	2
W-98975	209				-32.8	0.5	2
W-98976	174				-120.3	0.4	2
W-98977	175				-105.8	0.6	2
W-98978	173				-101.6	0.5	2
W-98979	176				-124.1	0.1	2
W-98980	177				-122.4	0.3	2

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-98981	179				-119.5	0.6	2
W-98982	180				-119.5	0.2	2
W-98983	178				-119.3	0.2	2
W-98984	226				-83.2	0.2	2
W-98985	222				-100.9	0.2	2
W-98986	225				-125.7	0.2	2
W-98987	181				-107.6	0.2	2
W-98988	171				-129.3	0.1	2
W-98989	161				-134.1	0.3	2
W-98990	172				-116.0	0.7	2
W-98991	259				-140.1	0.1	2
W-98992	260				-139.9	0.1	2
W-98993	254				-125.1	0.1	2
W-98994	257				-133.4	0.4	2
W-98995	258				-125.6	0.1	2
W-98996	256				-134.6	0.2	2
W-98997	255				-134.6	0.5	2
W-98998	262				-125.4	0.2	2
W-98999	264				-129.2	0.4	2
W-99000	263				-129.9	0.3	2
W-99001	247				-110.4	0.1	2
W-99002	239				-126.5	0.1	2
W-99003	223				-108.3	0.1	2
W-99004	224				-108.7	0.1	2
W-99005	241				-103.7	0.0	2
W-99006	228				-95.5	0.3	2
W-99007	238				-93.7	0.5	2
W-99008	232				-65.8	0.3	2
W-99009	236				-68.9	0.4	2
W-99010	231				-93.8	0.6	2
W-99011	235				-66.5	0.5	2
W-99012	234				-66.6	0.3	2
W-99013	229				-75.9	0.1	2
W-99014	230				-77.4	0.2	2
W-99015	216				-72.7	0.3	2
W-99016	218				-74.2	0.1	2

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-99017	219				-89.8	0.4	2
W-99018	221				-51.8	0.0	2
W-99019	227				-97.8	0.2	2
W-99020	284				-73.5	0.3	2
W-99021	245				-76.9	0.2	2
W-99022	244				-76.6	0.0	2
W-99023	242				-130.0	0.2	2
W-99024	315				-68.6	0.1	2
W-99025	320				-81.1	0.1	2
W-99026	323				-78.1	0.1	2
W-99027	322				-79.6	0.1	2
W-99028	328				-70.0	0.4	2
W-99029	326				-70.8	0.3	2
W-99030	318				-61.5	0.8	2
W-99031	319				-72.3	0.9	2
W-99032	317				-57.9	1.0	3
W-99033	311				-41.3	0.3	2
W-99034	297				-68.2	0.0	2
W-99035	309				-48.5	0.2	2
W-99036	312				-62.5	1.0	2
W-99037	324				-124.0	0.7	2
W-99038	325				-111.3	0.5	2
W-99039	308				-47.1	0.2	2
W-99040	310				-49.8	0.2	2
W-99041	303				-75.1	0.2	2
W-99042	304				-72.6	0.7	2
W-99043	302				-61.9	0.1	2
W-99044	300				-73.9	0.1	2
W-99045	307				-39.5	0.3	2
W-99046	301				-27.9	0.3	2
W-99047	313				-30.9	0.3	2
W-99048	314				-33.4	0.2	2
W-99049	306				-49.6	0.3	2
W-99050	298				-84.7	0.3	2
W-99051	299				-90.1	0.2	2
W-99052	289				-49.8	0.6	2

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-99053	287				-54.5	0.6	2
W-99054	286				-55.6	0.4	2
W-99055	288				-56.7	0.6	2
W-99056	296				-53.8	0.0	2
W-99057	295				-40.9	0.2	2
W-99058	292				-71.9	0.1	2
W-99059	293				-71.1	0.0	2
W-99060	291				-71.2	0.1	2
W-99061	294				-82.0	0.2	2
W-99062	243				-109.0	0.0	2
W-99063	340				-5.2	0.2	2
W-99064	342				-13.5	0.1	2
W-99065	343				-13.3	0.2	2
W-99066	341				-29.8	0.1	2
W-99067	344				-9.8	0.2	2
W-99068	349				-40.7	0.2	2
W-99069	272				-71.3	0.2	2
W-99070	273				-71.6	0.2	2
W-99071	269				-71.1	0.2	2
W-99072	267				-62.2	0.2	2
W-99073	270				-62.7	0.4	2
W-99074	271				-73.3	0.1	2
W-99075	275				-44.0	0.5	2
W-99076	274				-91.0	0.7	2
W-99077	290				-111.2	1.0	2
W-99078	279				-76.3	0.3	2
W-99079	281				-74.9	0.2	2
W-99080	278				-75.8	0.1	2
W-99081	280				-75.7	0.0	2
W-99082	282				-75.5	0.4	2
W-99083	285				-75.6	0.0	2
W-99084	277				-79.9	0.0	2
W-99085	276				-84.4	0.3	2
W-99086	283				-80.1	0.3	2
W-99087	265				-80.6	0.4	2
W-99088	251				-111.1	0.2	2

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a $\text{H}_2\text{-H}_2\text{O}$ platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-99089	252				-111.3	0.2	2
W-99090	253				-129.9	0.2	2
W-99091	336				-145.3	0.4	2
W-99092	339				-163.8	0.4	2
W-99093	337				-153.8	0.1	2
W-99094	338				-154.0	0.3	2
W-99095	329				-104.1	0.3	2
W-99096	330				-94.1	0.5	2
W-99097	331				-103.8	0.4	2
W-99098	10				-34.5	0.1	2
W-99099	22				-36.1	0.4	2
W-99100	23				-57.2	0.2	2
W-99101	103				-54.2	0.1	2
W-99102	43				-49.2	0.0	2
W-99103	70				-6.0	0.0	2
W-99104	80				-18.2	0.2	2
W-99105	112				-25.5	0.4	2
W-99106	119				-42.7	0.8	3
W-99107	84				-25.8	0.9	2
W-99108	89				-59.5	0.5	2
W-99109	163				-116.6	0.2	2
W-99110	138				-45.7	0.3	2
W-99111	148				-21.2	0.2	2
W-99112	220				-72.0	0.2	2
W-99113	196				-108.0	0.4	2
W-99114	261				-125.2	0.4	2
W-99115	240				-126.9	0.2	2
W-99116	233				-68.5	0.2	2
W-99117	217				-98.0	0.2	2
W-99118	14				-40.0	0.4	2
W-99119	246				-109.2	0.2	2
W-99120	316				-86.7	0.1	2
W-99121	321				-66.9	0.0	2
W-99122	305				-75.4	0.1	2
W-99123	345				-10.4	0.1	2
W-99124	348				-15.2	0.6	2

Appendix E. The $\delta^2\text{H}$ Measurement Results, including Mean and Standard Deviation, for Two Methods of Hydrogen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; VG Micromass, VG Micromass model hydrogen dual-inlet isotope-ratio mass spectrometer equipped with a H_2 - H_2O platinum equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer; $\delta^2\text{H}_{\text{VSMOW-SLAP}}$, relative difference of stable hydrogen isotope ratios normalized to the VSMOW-SLAP scale. When number of analyses equals 2 or more, the $\delta^2\text{H}$ value is the mean]

OurLabID	Site number	VG Micromass $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	VG Micromass standard deviation (per mil)	VG Micromass number of analyses	LGR $\delta^2\text{H}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-99125	268	-69.2		1	-68.3	1.2	2
W-99126	266				-70.8	0.7	2
W-99127	335				-145.0	1.0	2
W-99128	333				-93.0	0.7	2
W-99129	334	-97.0		1	-97.8	1.1	2
W-99130	332	-84.8		1	-83.6	1.2	2
W-99237	327	-103.0	0.5	2			

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94262	347	-1.77	0.01	2			
W-94263	346	-2.22		1			
W-94264	9	-7.70		1			
W-94265	8	-8.79	0.02	2			
W-94266	5	-6.74		1			
W-94267	10	-4.46		1			
W-94268	15	-7.27	0.01	2			
W-94269	13	-7.08		1			
W-94270	6	-9.46		1			
W-94271	4	-9.33	0.01	2			
W-94272	23	-9.22		1			
W-94273	3	-9.98		1			
W-94274	2	-10.03	0.00	2			
W-94275	17	-10.19		1			
W-94276	18	-10.55		1			
W-94277	7	-7.74	0.01	2			
W-94278	16	-7.74		1			
W-94279	22	-5.71		1			
W-94280	26	-7.47	0.01	2			
W-94281	24	-7.45		1			
W-94282	20	-8.95		1			
W-94283	96	-10.84	0.05	2			
W-94284	98	-6.47		1			
W-94285	97	-7.90		1			
W-94286	101	-10.16	0.01	2			
W-94287	99	-8.72		1			
W-94288	100	-8.69		1			
W-94289	103	-7.45	0.03	3			
W-94290	30	-9.19		1			
W-94291	32	-9.63		1			
W-94293	33	-8.04		1			
W-94294	31	-6.84		1			
W-94295	29	-8.88	0.02	2			
W-94296	28	-6.55		1			
W-94297	27	-7.10		1			
W-94298	25	-6.22	0.00	2			
W-94299	40	-6.13		1			

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94300	43	-5.92		1			
W-94301	38	-6.06	0.01	2			
W-94302	39	-6.22		1			
W-94303	36	-6.31		1			
W-94304	37	-6.30	0.06	2			
W-94305	35	-7.11		1			
W-94306	34	-7.31		1			
W-94307	41	-7.91	0.06	2			
W-94308	47	-6.67		1			
W-94309	45	-6.88		1			
W-94310	48	-5.26	0.01	2			
W-94311	105	-6.21		1			
W-94312	120	-8.17		1			
W-94313	106	-6.38	0.03	2			
W-94314	44	-7.37		1			
W-94315	102	-7.02		1			
W-94316	49	-2.62	0.02	2			
W-94317	135	-8.56		1			
W-94318	51	-4.10		1			
W-94319	53	-3.36	0.04	2			
W-94320	116	-5.81		1			
W-94321	56	-2.24		1			
W-94322	55	-2.95	0.04	2			
W-94323	54	-3.02		1			
W-94324	52	-3.89		1			
W-94325	58	-2.61	0.01	2			
W-94327	77	-3.65		1			
W-94328	138	-5.72	0.01	2			
W-94330	76	-3.61		1			
W-94331	59	-3.34	0.04	2			
W-94332	60	-2.23		1			
W-94333	57	-3.00		1			
W-94334	75	-3.49	0.04	2			
W-94335	73	-3.93		1			
W-94336	74	-2.20		1			
W-94337	78	-4.03	0.11	2			
W-94338	61	-2.22		1			

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94339	62	-2.14		1			
W-94340	72	-3.66	0.05	2			
W-94341	63	-1.46		1			
W-94342	69	-2.25		1			
W-94343	68	-1.00	0.04	2			
W-94344	64	-2.42		1			
W-94345	65	-0.39		1			
W-94347	1	-10.06		1			
W-94348	70	-2.10		1			
W-94349	71	-1.53	0.01	2			
W-94350	67	-1.48		1			
W-94351	66	-1.01		1			
W-94352	81	-3.70	0.04	2			
W-94353	80	-2.70	0.00	2			
W-94354	79	-1.62		1			
W-94355	112	-4.16	0.04	2			
W-94356	119	-6.78		1			
W-94357	118	-5.51		1			
W-94358	117	-5.45	0.01	2			
W-94359	142	-5.17		1			
W-94360	113	-4.06		1			
W-94361	146	-4.29	0.01	2			
W-94362	147	-4.73		1			
W-94364	84	-4.91	0.04	2			
W-94365	83	-4.55		1			
W-94366	82	-5.15		1			
W-94367	114	-6.65	0.01	2			
W-94368	111	-5.12		1			
W-94369	115	-4.17		1			
W-94370	108	-6.31	0.01	2			
W-94371	107	-6.20		1			
W-94372	104	-8.15		1			
W-94373	94	-6.67	0.06	2			
W-94374	110	-5.04		1			
W-94375	87	-8.85		1			
W-94376	92	-6.85	0.01	2			
W-94377	89	-9.07		1			

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94379	90	-11.34	0.04	2			
W-94380	91	-11.67		1			
W-94381	86	-5.88		1			
W-94384	130	-7.08		1			
W-94385	137	-8.10	0.00	2			
W-94386	184	-9.67		1			
W-94387	129	-6.47		1			
W-94388	88	-5.81	0.03	2			
W-94389	136	-8.67		1			
W-94390	132	-8.72		1			
W-94391	302	-9.95	0.04	2			
W-94392	133	-8.89		1			
W-94393	134	-8.96		1			
W-94394	127	-9.94	0.01	2			
W-94395	128	-9.50		1			
W-94396	125	-8.81		1			
W-94397	85	-8.58	0.01	2			
W-94398	126	-9.47		1			
W-94399	123	-6.17		1			
W-94400	124	-6.14	0.04	2			
W-94401	122	-7.38		1			
W-94402	121	-6.18	0.01	2			
W-94404	237	-7.60		1			
W-94405	141	-6.61		1			
W-94406	167	-10.21	0.01	2			
W-94407	169	-12.67		1			
W-94408	168	-9.31		1			
W-94409	166	-12.97	0.02	2			
W-94410	164	-13.20		1			
W-94411	162	-13.28		1			
W-94412	154	-5.62	0.01	2			
W-94413	165	-14.27		1			
W-94414	163	-14.58		1			
W-94415	160	-16.47	0.02	2			
W-94416	159	-15.08		1			
W-94417	158	-17.05		1			
W-94418	156	-18.57	0.02	2			

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94419	155	-18.49		1			
W-94420	157	-18.52		1			
W-94421	250	-17.12	0.09	2			
W-94423	248	-16.25		1			
W-94424	249	-16.99	0.04	2			
W-94425	131	-7.79		1			
W-94426	109	-6.83		1			
W-94427	139	-3.68	0.04	2			
W-94429	192	-8.15		1			
W-94430	188	-7.05	0.01	2			
W-94431	93	-6.90		1			
W-94433	191	-6.98	0.02	2			
W-94434	140	-6.75		1			
W-94435	186	-3.11		1			
W-94436	187	-5.34	0.04	2			
W-94438	185	-5.27		1			
W-94439	182	-6.97		1			
W-94441	183	-9.22		1			
W-94442	170	-11.55		1			
W-94443	151	-4.07	0.01	2			
W-94444	150	-4.60		1			
W-94445	148	-4.40		1			
W-94446	149	-4.56	0.00	2			
W-94447	145	-5.08		1			
W-94448	202	-2.26		1			
W-94449	203	-1.68	0.04	2			
W-94450	193	-4.31		1			
W-94451	195	-4.36		1			
W-94452	194	-4.31	0.09	2			
W-94453	200	-0.53		1			
W-94455	198	-4.72	0.00	2			
W-94456	199	-4.03		1			
W-94457	206	-1.90		1			
W-94458	204	+0.01	0.04	2			
W-94459	211	+1.24		1			
W-94460	208	-4.52		1			
W-94461	210	-4.88	0.02	2			

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94462	213	-3.92		1			
W-94463	215	-1.87		1			
W-94465	212	-2.02		1			
W-94466	209	-4.21		1			
W-94467	220	-8.29	0.06	2			
W-94469	174	-16.48		1			
W-94470	173	-16.44	0.04	2			
W-94471	177	-16.85		1			
W-94472	179	-15.84		1			
W-94473	178	-15.41	0.00	2			
W-94474	196	-14.52		1			
W-94475	226	-12.27		1			
W-94476	222	-12.98	0.05	2			
W-94477	225	-16.96		1			
W-94478	181	-14.33		1			
W-94479	171	-16.62	0.00	2			
W-94480	161	-16.29		1			
W-94481	172	-14.56		1			
W-94482	259	-18.67	0.01	2			
W-94483	254	-16.30		1			
W-94484	258	-16.63		1			
W-94485	264	-16.22	0.01	2			
W-94486	255	-17.27		1			
W-94487	256	-17.35		1			
W-94488	261	-16.49	0.04	2			
W-94489	262	-16.37		1			
W-94490	263	-16.91		1			
W-94491	247	-14.74	0.08	2			
W-94492	240	-15.34		1			
W-94493	239	-17.04		1			
W-94494	223	-15.04	0.06	2			
W-94495	224	-15.10		1			
W-94496	241	-14.19		1			
W-94497	236	-7.66	0.05	2			
W-94498	231	-11.54		1			
W-94499	233	-8.80		1			
W-94500	235	-8.80	0.03	2			

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94501	234	-8.78		1			
W-94502	229	-12.21		1			
W-94503	230	-10.75	0.06	2			
W-94504	217	-12.62		1			
W-94506	216	-9.99	0.04	2			
W-94507	218	-10.79		1			
W-94508	232	-8.77		1			
W-94509	219	-11.58	0.03	2			
W-94510	221	-7.90		1			
W-94511	327	-12.90		1			
W-94512	227	-12.10	0.01	2			
W-94515	246	-15.29	0.01	2			
W-94516	242	-16.58		1			
W-94517	315	-8.48		1			
W-94518	320	-10.31	0.01	2			
W-94519	322	-9.40		1			
W-94520	323	-10.13		1			
W-94521	321	-9.68	0.01	2			
W-94522	328	-9.98		1			
W-94523	326	-10.32		1			
W-94524	95	-6.48	0.02	2			
W-94525	319	-9.21		1			
W-94526	317	-8.39		1			
W-94527	180	-15.41	0.06	2			
W-94528	311	-4.18		1			
W-94529	297	-9.92		1			
W-94530	309	-6.93	0.04	2			
W-94531	316	-10.30		1			
W-94532	312	-8.93		1			
W-94533	324	-16.31	0.01	2			
W-94534	325	-15.14		1			
W-94535	308	-6.81		1			
W-94536	304	-13.46	0.02	2			
W-94537	303	-13.50		1			
W-94538	50	-2.64		1			
W-94539	300	-13.51	0.04	2			
W-94540	307	-9.04		1			

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94541	301	-4.45		1			
W-94542	313	-5.21	0.01	2			
W-94543	314	-5.23		1			
W-94544	298	-11.80		1			
W-94545	289	-7.58	0.03	2			
W-94546	287	-8.07		1			
W-94547	288	-7.99		1			
W-94548	286	-8.10	0.02	2			
W-94549	296	-7.95		1			
W-94550	295	-5.75		1			
W-94551	331	-15.13	0.06	2			
W-94552	310	-6.68		1			
W-94553	293	-10.52		1			
W-94554	292	-10.59	0.04	2			
W-94555	291	-10.59		1			
W-94556	294	-11.72		1			
W-94557	243	-14.96	0.01	2			
W-94558	340	-1.31		1			
W-94559	207	-1.84		1			
W-94560	342	-3.68	0.00	2			
W-94561	343	-3.59		1			
W-94563	341	-4.37	0.04	2			
W-94564	345	-3.16		1			
W-94565	273	-10.39		1			
W-94567	344	-3.19		1			
W-94568	348	-5.48		1			
W-94569	349	-6.63	0.07	2			
W-94570	272	-10.82		1			
W-94571	269	-11.53		1			
W-94572	267	-10.12	0.03	2			
W-94573	332	-11.47		1			
W-94575	268	-11.55	0.03	2			
W-94576	275	-6.02		1			
W-94577	274	-12.57		1			
W-94578	290	-14.84	0.04	2			
W-94579	279	-10.49		1			
W-94580	281	-10.59		1			

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94581	333	-12.55	0.01	2			
W-94582	282	-10.41		1			
W-94583	278	-10.43		1			
W-94584	280	-10.46	0.04	2			
W-94585	334	-13.72		1			
W-94586	285	-10.64		1			
W-94587	277	-11.03	0.06	2			
W-94588	276	-12.32		1			
W-94589	283	-11.57		1			
W-94590	265	-11.44	0.00	2			
W-94591	266	-9.81		1			
W-94592	251	-14.80		1			
W-94593	252	-14.70	0.04	2			
W-94594	253	-17.02		1			
W-94595	336	-19.42		1			
W-94596	19	-11.01	0.01	2			
W-94597	260	-18.35		1			
W-94598	335	-18.79		1			
W-94599	339	-20.75	0.02	2			
W-94600	152	-4.90		1			
W-94601	257	-17.56		1			
W-94602	337	-19.52	0.03	2			
W-94603	338	-19.57		1			
W-94604	329	-14.81		1			
W-94605	330	-12.75	0.02	2			
W-94606	46	-6.97		1			
W-94607	306	-6.88		1			
W-94608	175	-14.08	0.03	2			
W-94609	176	-16.25		1			
W-94611	153	-4.47	0.01	2			
W-94612	11	-6.43		1			
W-94613	42	-7.40		1			
W-94614	245	-8.06	0.01	2			
W-94615	21	-8.83		1			
W-94617	143	-5.17	0.04	2			
W-94618	144	-5.20		1			
W-94619	214	-1.86		1			

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-94620	205	-1.87	0.01	2			
W-94621	228	-12.81		1			
W-94942	190	-6.98		1			
W-94943	244	-7.96	0.06	2			
W-94944	271	-11.54		1			
W-94945	318	-8.94		1			
W-94946	284	-9.87	0.04	2			
W-94947	201	-6.64		1			
W-94948	197	-3.78		1			
W-94949	299	-10.86	0.02	2			
W-94950	270	-11.31		1			
W-94951	305	-13.42		1			
W-98693	347	-2.49	0.00	2	-2.94	0.10	2
W-98694	346	-2.93		1	-3.10	0.23	2
W-98695	9	-8.80		1	-9.16	0.28	2
W-98696	8	-8.86	0.03	2	-9.01	0.44	2
W-98697	5	-6.51		1	-6.71	0.64	2
W-98698	11	-6.35		1	-6.36	0.30	2
W-98699	15	-7.08	0.03	2	-7.57	0.06	2
W-98700	12	-5.98		1	-6.76	0.53	2
W-98701	6	-9.42		1	-10.36	0.58	2
W-98702	4	-9.36	0.01	2	-10.37	0.13	2
W-98703	1	-9.90		1	-10.84	0.19	2
W-98704	2	-9.92		1	-10.40	0.40	2
W-98705	3	-9.88	0.01	2	-10.34	0.59	2
W-98706	17	-10.08		1	-10.76	0.75	2
W-98707	18	-10.17		1	-10.68	0.19	2
W-98708	19	-11.07	0.06	2	-11.42	0.40	2
W-98709	7	-7.34		1	-8.07	0.71	2
W-98710	16	-7.10		1	-7.84	1.08	2
W-98711	26	-8.36	0.02	2	-8.54	0.48	2
W-98712	24	-7.60		1	-7.55	0.19	2
W-98713	20	-8.84		1	-8.74	0.20	2
W-98714	21	-8.75	0.06	2	-8.61	0.04	2
W-98715	96	-10.89		1	-10.27	0.04	2
W-98716	98	-6.53		1	-6.26	0.16	2
W-98810	97	-8.14	0.03	2	-7.91	0.11	2

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-98811	101	-11.75		1	-11.75	0.26	2
W-98812	99	-8.75		1	-8.70	0.25	2
W-98813	100	-10.16	0.04	2	-10.23	0.07	2
W-98814	30	-9.15		1	-9.62	0.32	2
W-98815	32	-9.57		1	-9.96	0.33	2
W-98816	33	-7.91	0.01	2	-8.12	0.29	2
W-98817	31	-8.73		1	-8.96	0.28	2
W-98818	29	-8.79		1	-9.19	0.15	2
W-98819	28	-7.59	0.03	2	-7.93	0.17	2
W-98820	27	-7.55		1	-7.43	0.16	2
W-98821	25	-6.24		1	-5.90	0.01	2
W-98822	38	-7.55	0.04	2	-7.03	0.00	2
W-98823	40	-7.51		1	-7.00	0.11	2
W-98824	39	-7.52		1	-7.67	0.31	2
W-98825	42	-7.49	0.03	2	-7.75	0.41	2
W-98826	37	-6.13		1	-6.44	0.48	2
W-98827	36	-6.17		1	-6.46	0.76	2
W-98828	35	-6.24	0.01	2	-6.69	0.59	2
W-98829	34	-7.21		1	-7.80	0.57	2
W-98830	41	-9.14		1	-9.74	0.62	2
W-98831	47	-6.60	0.02	2	-7.20	0.37	2
W-98832	46	-5.78		1	-6.36	0.40	2
W-98833	45	-5.99		1	-6.26	0.52	2
W-98834	48	-6.50	0.04	2	-6.81	0.40	2
W-98835	105	-6.78		1	-6.98	0.57	2
W-98836	120	-8.24		1	-8.42	0.50	2
W-98837	106	-7.20	0.01	2	-7.26	0.31	2
W-98838	44	-7.57		1	-7.46	0.19	2
W-98839	102	-7.63		1	-7.52	0.02	2
W-98840	49	-1.66	0.02	2	-1.62	0.11	2
W-98841	50	-1.69		1	-1.79	0.38	2
W-98842	53	-2.75		1	-2.96	0.34	2
W-98843	116	-5.75	0.01	2	-5.84	0.34	2
W-98844	51	-4.11		1	-4.19	0.25	2
W-98845	56	-2.06		1	-2.27	0.10	2
W-98846	55	-2.36	0.00	2	-2.53	0.12	2
W-98847	54	-2.35		1	-2.46	0.03	2

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-98848	52	-4.31		1	-4.36	0.06	2
W-98849	58	-2.78	0.01	2	-2.94	0.19	2
W-98850	77	-2.78		1	-2.91	0.37	2
W-98851	76	-2.78		1	-2.92	0.29	2
W-98852	59	-4.66	0.03	2	-4.67	0.21	2
W-98853	60	-4.50		1	-4.56	0.16	2
W-98854	57	-2.83		1	-2.76	0.27	2
W-98855	75	-3.73	0.01	2	-3.75	0.40	2
W-98856	73	-3.95		1	-3.80	0.20	2
W-98857	74	-2.02		1	-1.72	0.05	2
W-98858	78	-4.09	0.01	2	-4.07	0.04	2
W-98859	72	-3.56		1	-3.54	0.26	2
W-98860	62	-2.23		1	-1.86	0.37	2
W-98861	61	-2.09	0.04	2	-1.66	0.26	2
W-98862	63	-1.51		1	-1.04	0.20	2
W-98863	69	-2.24		1	-2.16	0.00	2
W-98864	68	-0.92	0.08	2	-0.84	0.17	2
W-98865	64	-2.57		1	-2.65	0.12	2
W-98866	65	-0.49		1	-0.48	0.17	2
W-98867	71	-1.15	0.05	2	-1.21	0.14	2
W-98868	67	-1.44		1	-1.37	0.13	2
W-98869	66	-0.97		1	-0.84	0.01	2
W-98870	81	-2.65	0.01	2	-2.66	0.20	2
W-98871	79	-3.54		1	-3.48	0.03	2
W-98872	117	-5.44		1	-5.37	0.13	2
W-98873	118	-5.31	0.04	2	-5.51	0.04	2
W-98874	142	-5.23		1	-5.46	0.11	2
W-98875	143	-5.18		1	-5.13	0.04	2
W-98876	144	-5.16	0.02	2	-5.42	0.12	2
W-98877	113	-4.28		1	-4.51	0.13	2
W-98878	146	-4.40		1	-4.45	0.06	2
W-98879	147	-4.74	0.02	2	-5.07	0.14	2
W-98880	83	-4.65		1	-4.79	0.05	2
W-98881	82	-5.26		1	-5.39	0.13	2
W-98882	114	-7.19	0.07	2	-7.30	0.21	2
W-98883	111	-5.45		1	-5.61	0.28	2
W-98884	115	-5.68		1	-5.99	0.00	2

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-98885	108	-7.07	0.00	2	-6.99	0.18	2
W-98886	107	-7.03		1	-6.93	0.18	2
W-98887	95	-6.69		1	-6.54	0.09	2
W-98888	104	-8.00	0.00	2	-7.75	0.06	2
W-98889	94	-7.22		1	-6.88	0.23	2
W-98890	110	-6.59		1	-6.28	0.05	2
W-98891	87	-8.89	0.01	2	-8.43	0.32	2
W-98892	92	-8.77		1	-8.66	0.08	2
W-98893	93	-7.20		1	-7.21	0.16	2
W-98894	90	-11.44	0.04	2	-11.32	0.04	2
W-98895	91	-11.83		1	-11.77	0.07	2
W-98896	86	-6.40		1	-6.36	0.08	2
W-98897	130	-7.35	0.07	2	-7.29	0.05	2
W-98898	137	-8.37		1	-8.49	0.37	2
W-98899	184	-10.63		1	-10.49	0.04	2
W-98900	129	-7.17	0.06	2	-7.06	0.08	2
W-98901	88	-5.78		1	-5.71	0.08	2
W-98902	136	-8.80		1	-8.81	0.33	2
W-98903	132	-8.80	0.05	2	-8.81	0.18	2
W-98904	135	-8.79		1	-8.71	0.05	2
W-98905	133	-8.85		1	-8.97	0.06	2
W-98906	134	-8.99	0.10	2	-9.18	0.20	2
W-98907	127	-9.89		1	-10.02	0.02	2
W-98908	128	-9.64		1	-9.72	0.23	2
W-98909	125	-8.80	0.00	2	-9.11	0.56	2
W-98910	85	-8.97		1	-9.30	0.68	2
W-98911	126	-9.50		1	-9.67	0.40	2
W-98912	123	-6.70	0.04	2	-7.00	0.70	2
W-98913	124	-6.77		1	-7.00	0.67	2
W-98914	122	-8.34		1	-8.59	0.46	2
W-98915	121	-7.54	0.01	2	-7.90	0.67	2
W-98916	167	-10.20		1	-10.44	0.40	2
W-98917	169	-12.53		1	-12.95	0.59	2
W-98918	168	-9.43	0.04	2	-9.74	0.33	2
W-98919	166	-12.70		1	-12.86	0.48	2
W-98920	164	-12.67		1	-13.11	0.41	2
W-98921	162	-12.94	0.02	2	-13.20	0.65	2

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-98922	154	-7.07		1	-7.30	0.54	2
W-98923	165	-14.36		1	-14.53	0.49	2
W-98924	160	-17.49	0.06	2	-18.07	0.60	2
W-98925	159	-14.63		1	-15.33	0.94	2
W-98926	158	-16.37		1	-17.14	0.71	2
W-98927	155	-18.48	0.03	2	-18.89	0.89	3
W-98928	156	-18.41		1	-18.87	0.88	3
W-98929	157	-18.40		1	-18.92	1.01	3
W-98930	250	-17.04	0.01	2	-17.45	0.79	3
W-98931	248	-16.15		1	-16.69	0.69	3
W-98932	249	-16.96		1	-17.40	0.39	4
W-98933	131	-7.78	0.01	2	-8.04	0.14	3
W-98934	109	-6.88		1	-7.11	0.34	3
W-98935	139	-2.81		1	-2.83	0.08	2
W-98936	141	-9.28	0.06	2	-9.28	0.03	2
W-98937	192	-7.71		1	-7.35	0.19	2
W-98938	188	-7.24		1	-6.86	0.21	2
W-98939	191	-6.96	0.01	2	-6.70	0.28	3
W-98940	189	-7.88		1	-7.64	0.25	2
W-98941	140	-6.35		1	-6.32	0.52	2
W-98942	186	-6.87	0.03	2	-7.06	0.41	2
W-98943	187	-5.35		1	-5.60	0.42	2
W-98944	197	-3.54		1	-3.82	0.69	2
W-98945	185	-5.80	0.01	2	-6.41	0.87	2
W-98946	182	-7.86		1	-8.43	0.94	2
W-98947	183	-9.02		1	-9.71	0.82	2
W-98948	170	-11.47	0.00	2	-12.10	0.78	2
W-98949	152	-6.51		1	-7.03	0.86	2
W-98950	153	-4.39		1	-5.05	1.09	2
W-98951	151	-3.96	0.07	2	-4.60	1.05	2
W-98952	149	-4.56		1	-5.05	1.06	2
W-98953	150	-4.55		1	-5.02	0.76	2
W-98954	145	-5.07	0.01	2	-5.51	0.77	2
W-98955	202	-4.39		1	-4.79	0.62	2
W-98956	203	-2.19		1	-2.61	0.52	2
W-98957	193	-3.85	0.01	2	-4.13	0.64	2
W-98958	194	-3.79		1	-4.03	0.48	2

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-98959	195	-4.41		1	-4.54	0.47	2
W-98960	200	-0.86	0.01	2	-1.22	0.10	2
W-98961	201	-6.57		1	-6.83	0.05	2
W-98962	198	-4.40		1	-4.58	0.11	2
W-98963	199	-3.35	0.02	2	-3.38	0.20	2
W-98964	205	-1.90		1	-1.96	0.10	2
W-98965	206	-1.02		1	-1.09	0.01	2
W-98966	204	+0.91	0.01	2	+0.99	0.17	2
W-98967	211	+0.82		1	+0.90	0.16	2
W-98968	207	-2.06		1	-1.85	0.21	2
W-98969	208	-4.46	0.03	2	-4.33	0.27	2
W-98970	210	-4.72		1	-4.65	0.34	2
W-98971	213	-3.81		1	-3.53	0.08	2
W-98972	214	-2.11	0.04	2	-1.66	0.29	2
W-98973	215	-1.97		1	-1.64	0.57	2
W-98974	212	-2.27		1	-1.90	0.43	2
W-98975	209	-4.56	0.01	2	-4.07	0.21	2
W-98976	174	-16.10	0.01	2	-15.43	0.35	2
W-98977	175	-13.45		1	-12.93	0.42	2
W-98978	173	-12.39	0.05	2	-11.94	0.56	2
W-98979	176	-16.50		1	-16.05	0.57	2
W-98980	177	-16.42		1	-16.44	0.06	2
W-98981	179	-15.84	0.03	2	-15.65	0.08	2
W-98982	180	-15.89		1	-15.79	0.28	2
W-98983	178	-15.85		1	-15.80	0.04	2
W-98984	226	-11.76	0.04	2	-11.84	0.02	2
W-98985	222	-13.54		1	-13.63	0.05	2
W-98986	225	-17.06		1	-17.21	0.27	2
W-98987	181	-13.39	0.00	2	-13.57	0.24	2
W-98988	171	-17.14		1	-17.26	0.19	2
W-98989	161	-17.38		1	-17.55	0.03	2
W-98990	172	-14.56	0.02	2	-14.76	0.20	2
W-98991	259	-18.70		1	-18.93	0.22	2
W-98992	260	-18.70		1	-18.96	0.28	2
W-98993	254	-16.23	0.01	2	-16.55	0.28	2
W-98994	257	-17.10		1	-16.97	0.29	2
W-98995	258	-16.13		1	-16.25	0.01	2

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-98996	256	-17.74	0.02	2	-17.70	0.18	2
W-98997	255	-17.77		1	-17.85	0.09	2
W-98998	262	-16.28		1	-16.46	0.08	2
W-98999	264	-16.81	0.01	2	-17.12	0.13	2
W-99000	263	-16.88		1	-17.15	0.01	2
W-99001	247	-14.78		1	-14.97	0.11	2
W-99002	239	-17.05	0.04	2	-17.26	0.05	2
W-99003	223	-15.02		1	-15.29	0.04	2
W-99004	224	-15.09		1	-15.26	0.07	2
W-99005	241	-14.28	0.00	2	-14.32	0.28	2
W-99006	228	-12.91		1	-12.87	0.28	2
W-99007	238	-11.46		1	-11.42	0.22	2
W-99008	232	-8.86	0.00	2	-8.86	0.22	2
W-99009	236	-9.52		1	-9.36	0.25	2
W-99010	231	-11.51		1	-11.50	0.42	2
W-99011	235	-8.89	0.05	2	-8.96	0.34	2
W-99012	234	-8.62		1	-8.85	0.01	2
W-99013	229	-10.24		1	-10.49	0.04	2
W-99014	230	-10.54	0.03	2	-10.55	0.07	2
W-99015	216	-9.88		1	-10.02	0.21	2
W-99016	218	-10.63		1	-10.67	0.04	2
W-99017	219	-11.64	0.04	2	-11.80	0.09	2
W-99018	221	-7.90		1	-7.91	0.04	2
W-99019	227	-12.19		1	-12.12	0.22	2
W-99020	284	-9.95	0.04	2	-9.92	0.14	2
W-99021	245	-9.19		1	-8.88	0.04	2
W-99022	244	-9.10		1	-8.91	0.01	2
W-99023	242	-16.49	0.01	2	-16.48	0.08	2
W-99024	315	-9.05		1	-8.98	0.08	2
W-99025	320	-10.02		1	-9.86	0.02	2
W-99026	323	-9.58	0.02	2	-9.47	0.09	2
W-99027	322	-9.74		1	-9.75	0.13	2
W-99028	328	-10.09		1	-10.12	0.07	2
W-99029	326	-9.93	0.08	2	-9.97	0.08	2
W-99030	318	-9.01		1	-9.00	0.18	2
W-99031	319	-9.73		1	-9.80	0.11	2
W-99032	317	-8.53	0.03	2	-8.43	0.17	3

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-99033	311	-6.01		1	-5.87	0.08	2
W-99034	297	-9.85		1	-9.76	0.11	2
W-99035	309	-7.02	0.06	2	-6.86	0.16	2
W-99036	312	-8.50		1	-8.65	0.46	2
W-99037	324	-16.29		1	-16.42	0.65	2
W-99038	325	-15.15	0.03	2	-15.21	0.52	2
W-99039	308	-7.07		1	-7.17	0.38	2
W-99040	310	-7.40		1	-7.45	0.45	2
W-99041	303	-9.97	0.02	2	-10.17	0.35	2
W-99042	304	-9.84		1	-9.91	0.22	2
W-99043	302	-8.16		1	-8.44	0.34	2
W-99044	300	-10.02	0.08	2	-10.37	0.21	2
W-99045	307	-5.41		1	-5.58	0.02	2
W-99046	301	-4.62		1	-4.75	0.01	2
W-99047	313	-5.14	0.03	2	-5.02	0.09	2
W-99048	314	-5.89		1	-5.72	0.20	2
W-99049	306	-7.24		1	-7.13	0.48	2
W-99050	298	-11.60	0.06	2	-11.59	0.35	2
W-99051	299	-12.45		1	-12.26	0.44	2
W-99052	289	-7.35		1	-7.04	0.44	2
W-99053	287	-8.28	0.01	2	-7.90	0.30	2
W-99054	286	-8.36		1	-8.37	0.17	2
W-99055	288	-8.63		1	-8.68	0.25	2
W-99056	296	-7.78	0.01	2	-7.83	0.01	2
W-99057	295	-5.78		1	-5.83	0.20	2
W-99058	292	-10.10		1	-10.37	0.18	2
W-99059	293	-9.96	0.03	2	-10.17	0.08	2
W-99060	291	-9.98		1	-10.13	0.15	2
W-99061	294	-11.49		1	-11.48	0.18	2
W-99062	243	-15.03	0.02	2	-15.29	0.04	2
W-99063	340	-1.39		1	-1.53	0.06	2
W-99064	342	-3.73		1	-3.83	0.22	2
W-99065	343	-3.64	0.05	2	-3.76	0.30	2
W-99066	341	-5.79		1	-5.89	0.49	2
W-99067	344	-3.17		1	-3.21	0.37	2
W-99068	349	-6.58	0.01	2	-6.51	0.21	2
W-99069	272	-10.58		1	-10.59	0.25	2

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-99070	273	-10.57		1	-10.54	0.07	2
W-99071	269	-10.19	0.06	2	-10.24	0.02	2
W-99072	267	-9.33		1	-9.24	0.13	2
W-99073	270	-9.52		1	-9.31	0.04	2
W-99074	271	-10.54	0.08	2	-10.47	0.42	2
W-99075	275	-7.04		1	-6.89	0.35	2
W-99076	274	-12.95		1	-12.85	0.27	2
W-99077	290	-14.84	0.04	2	-15.15	0.08	2
W-99078	279	-10.67		1	-10.54	0.09	2
W-99079	281	-10.64		1	-10.64	0.03	2
W-99080	278	-10.64	0.01	2	-10.71	0.25	2
W-99081	280	-10.67		1	-10.63	0.20	2
W-99082	282	-10.66		1	-10.67	0.26	2
W-99083	285	-10.81	0.03	2	-10.87	0.23	2
W-99084	277	-11.03		1	-11.02	0.02	2
W-99085	276	-11.77		1	-11.86	0.23	2
W-99086	283	-11.30	0.00	2	-11.42	0.20	2
W-99087	265	-11.40		1	-11.38	0.09	2
W-99088	251	-14.68		1	-14.65	0.16	2
W-99089	252	-14.71	0.04	2	-14.76	0.22	2
W-99090	253	-17.14		1	-17.02	0.00	2
W-99091	336	-19.05		1	-19.16	0.07	2
W-99092	339	-20.79	0.04	2	-20.73	0.16	2
W-99093	337	-19.39		1	-19.44	0.11	2
W-99094	338	-19.43		1	-19.53	0.11	2
W-99095	329	-14.08	0.05	2	-14.06	0.12	2
W-99096	330	-12.74		1	-12.63	0.33	2
W-99097	331	-14.08		1	-14.11	0.27	2
W-99098	10	-5.31	0.03	2	-5.27	0.21	2
W-99099	22	-6.61		1	-6.62	0.19	2
W-99100	23	-8.76		1	-8.81	0.05	2
W-99101	103	-8.58	0.01	2	-8.51	0.22	2
W-99102	43	-7.81		1	-7.82	0.06	2
W-99103	70	-1.68		1	-1.56	0.37	2
W-99104	80	-3.54	0.01	2	-3.33	0.27	2
W-99105	112	-4.60		1	-4.63	0.26	2
W-99106	119	-6.76		1	-7.03	0.16	3

Appendix F. The $\delta^{18}\text{O}$ Measurement Results, including Mean and Standard Deviations, for Two Methods of Oxygen Isotope Analysis—continued

[OurLabID, Reston Stable Isotope Laboratory identification code; $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$, relative difference of stable oxygen isotope ratios normalized to the VSMOW-SLAP scale; DuPont, DuPont model carbon dioxide dual-inlet isotope-ratio mass spectrometer equipped with a $\text{CO}_2\text{-H}_2\text{O}$ equilibration peripheral; LGR, Los Gatos Research laser-absorption Isotope Water Analyzer. When the number of analyses equals 2 or more, the $\delta^{18}\text{O}$ value is the mean]

OurLabID	Site number	DuPont $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	DuPont standard deviation (per mil)	DuPont number of analyses	LGR $\delta^{18}\text{O}_{\text{VSMOW-SLAP}}$ (per mil)	LGR standard deviation (per mil)	LGR number of analyses
W-99107	84	-4.88	0.04	2	-4.88	0.04	2
W-99108	89	-8.92		1	-8.84	0.20	2
W-99109	163	-14.36		1	-14.28	0.12	2
W-99110	138	-5.96	0.00	2	-6.01	0.21	2
W-99111	148	-4.40		1	-4.38	0.14	2
W-99112	220	-10.23		1	-10.39	0.14	2
W-99113	196	-14.26	0.06	2	-14.37	0.47	2
W-99114	261	-16.40		1	-16.41	0.46	2
W-99115	240	-17.14		1	-17.09	0.06	2
W-99116	233	-8.85	0.06	2	-8.92	0.12	2
W-99117	217	-13.36		1	-13.42	0.01	2
W-99118	14	-6.05		1	-6.04	0.04	2
W-99119	246	-14.61		1	-14.53	0.06	2
W-99120	316	-11.32		1	-11.40	0.06	2
W-99121	321	-7.89		1	-7.83	0.39	2
W-99122	305	-10.24	0.08	2	-10.13	0.30	2
W-99123	345	-3.12		1	-2.99	0.17	2
W-99124	348	-3.45		1	-3.59	0.44	2
W-99125	268	-9.97	0.04	2	-9.90	0.47	2
W-99126	266	-9.91		1	-9.79	0.37	2
W-99127	335	-19.07		1	-19.06		1
W-99128	333	-12.92	0.05	2	-12.91		1
W-99129	334	-13.04		1	-13.10		1
W-99130	332	-11.86		1	-11.79		1
W-99237	327	-12.88	0.08	2			