Appendix D

Analytical Data

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Terms

AWLN	automated water level network
CD	compact disc
CVP	Cleanup Verification Package
HEIS	Hanford Environmental Information System
HWIS	Hanford Well Information System
LFI	Limited Field Investigation
MED	Manhattan Engineering District
OU	Operable Unit
QC	quality control
QL	quantitation limit
RI/FS	Remedial Investigation and Feasibility Study
RSVP	Remaining Sites Verification Package
USGS	United States Geological Survey

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D1 Introduction

This appendix summarizes the dataset compiled to support the Integrated 100-FR-1, 100-FR-2, 100-FR-3, 100-IU-2, and 100-IU-6 Operable Units (OUs) Remedial Investigation and Feasibility Study (RI/FS). The dataset provides the data and information used to support completion of the RI/FS Report. The dataset includes data from ongoing site programs (e.g., annual groundwater monitoring, waste site remediation), data from previous soil and groundwater investigations conducted in the 100-F/IU-2/IU-6 area, and data collected specifically for the RI/FS as described in *Integrated 100 Area Remedial Investigation/Feasibility Study Work Plan, Addendum 4: 100-FR-1, 100-FR-2, 100-FR-3, 100-IU-2, and 100-IU-6 Operable Units* (DOE/RL-2008-46-ADD4) and the companion sampling and analysis plan (*Sampling and Analysis Plan for the 100-FR-1, 100-FR-2, 100-FR-3, 100-IU-2, and 100-IU-6 Operable Units Remedial Investigation/Feasibility Study* [DOE/RL-2009-43]). The following is a list of the available data that were compiled for the RI/FS dataset:

- Data collected as part of ongoing site sampling programs or before initiation of the current RI/FS field investigation activities
  - Waste site remediation action soil analytical data (available samples up to March 1, 2012)
  - Field investigation soil analytical data (available samples up to December 31, 2009)
  - Groundwater analytical data (January 1, 2006 to March 1, 2011)
  - Well and borehole drilling and construction information (to July 18, 2010)
  - Fate and transport parameters (e.g., geochemical parameters, hydrogeologic parameters, soil physical properties) (to December 31, 2009)
  - Geologic information (to March 22, 2011)
  - Groundwater levels and River Stage (to December 31, 2009)
- Data collected during the RI/FS field investigation activities (May, 2010 to February, 2011) as described in *Integrated 100 Area Remedial Investigation/Feasibility Study Work Plan, Addendum 4: 100-FR-1, 100-FR-2, 100-FR-3, 100-IU-2, and 100-IU-6 Operable Units* (DOE/RL-2008-46-ADD4), and *Sampling and Analysis Plan for the 100-FR-1, 100-FR-2, 100-FR-3, 100-IU-2, and 100-IU-6 Operable Units Remedial Investigation/Feasibility Study* (DOE/RL-2009-43)
  - Soil analytical data
  - Groundwater analytical data
  - Soil physical properties (grain size, moisture content, and porosity)
  - Hydraulic conductivity
  - Geophysical logging
  - Distribution coefficient data for metals

The data compiled from work performed by other site activities to support the RI/FS are described in Chapter D2. The data compiled for the RI/FS field investigation activities are described in Chapter D3. The data compiled for this RI/FS are recorded on the attached compact disc (CD), unless incorporated by reference as described in this appendix. Table D-1 lists the file names of the electronic files recorded for this appendix and their contents.

Table D-1. Data Files in this Appendix

File Name	Contents
Groundwater	
100FIU_GW_Jan07toDec11	Groundwater data for the period shown.
ECF-100FR3-11-0069	Creation of the 100-F Area plume maps for 2010.
ECF-HANFORD-11-0077_Rev0_IU_Plumes	Creation of the Sitewide plume maps for 2010.
Remedial Investigation	
DURA_19Apr2011	The 2010 risk assessment groundwater data which is a subset of the 100FIU_GW_Jan07toDec11 file.
RI_GW_11Aug2011	Groundwater data from RI wells and boreholes which is a subset of the 100FIU_GW_Jan07toDec11file.
RI_Vadose_11Aug2011	Soil data from RI boreholes and wells.
Vadose Zone	
100-F_UNI-946	Waste site data from several cribs.
WCH_CVP_11Aug2011	Soil data from waste site remediation.
WCH_CVP_Update_to2012Mar01	Additional soil data from waste site remediation.
Groundwater Levels and River Stages	
FIU_Well_Water_Levels	Historical water level data for wells in the 100-F Area and the northern parts of 100-IU-2 and 100-IU-6.
awln_RiverStage_18Jun2010	Hourly and manual river stage data for the 100-F Area.
USGS_12472800	Discharge data for the Priest Rapids Dam.
Well_Borehole	
100-FIUWellInfo_21Jun2010	Well construction information for 100-F/IU wells.

D2 Summary of the Data Compiled by Site Activities Used to Support the RI/FS

This section describes a series of data files for soil and water. Unless otherwise noted, data were derived from the Hanford Environmental Information System (HEIS) database, which is designated as the central repository for Hanford Site environmental data. Users may access HEIS via the Hanford Site Environmental Dashboard Application.

Selected field names (column headers) used in the accompanying data tables are listed below. *HEIS Sample, Result, and Sampling Site Data Dictionary* (HNF-38155) contains a full listing of field names and their meanings.

- EASTING – Geographic east-west coordinates of the sample site in meters (*North American Datum of 1983* [NAD83]).
- LAB_QUALIFIER – A code that qualifies the associated result. These codes are reported by the analytical laboratory. The meaning of many codes depends on the METHOD_CATEGORY. Table D-2 describes laboratory qualifier codes.
- NORTHING – Geographic north-south coordinates of the sample site in meters (*North American Datum of 1983* [NAD83]).
- RESULT_COMMENT -- comments about the result record may be entered. Entries into this column are not reported by the laboratories but are added by data reviewers.
- REVIEW_QUALIFIER -- A code indicating that the quality of the record has been questioned by the reviewer. Table D-3 defines the codes.
- SAMP_DATE_TIME – Date the sample was collected.
- SAMP_NUM -- A unique identifier for a physical sample.
- SAMP_SITE_NAME – Well name, borehole number, or in the case of test pits, waste site name associated with the sample.
- STD_ANAL_UNITS_RPTD – Analytical units for results.
- STD_CON_LONG_NAME – Standardized name of the constituent or property reported.
- STD_COUTING_ERROR -- Error value measured by counting disintegrations of radioactive analytes, reported in the same units as the STD_VALUE_REPORTED. This error serves as a lower bound for the uncertainty of the measurement.
- STD_MDA – Minimum detectable activity, typically dependent on the measured instrument background and sample yield, reported in the same units as the STD_VALUE_REPORTED. Generally, it depends on the actual aliquot, count time, yield, efficiency, decay correction, and some measurement of the background. The background might be from associated instrument blanks, reagent blanks, baseline information for the sample, or some combination of these.
- STD_SAMP_INTV_BOT -- Depth below land surface of bottom of sampling device, standardized to units of meters.
- STD_SAMP_INTV_TOP – Depth below land surface of top of sampling device, standardized to units of meters.
- STD_TOTAL_ANAL_ERROR -- A combination of counting error plus a laboratory-specific estimate dependent on the chosen analysis methods, representing sample-specific error (at 2 sigma) that could possibly be introduced into the analysis while at the laboratory, reported in the same units as the STD_VALUE_REPORTED. For radiological analyses, this is the total propagated uncertainty.
- STD_VALUE_RPTD – The analytical result (e.g. concentration), converted if necessary to standard analytical units.
- VALIDATION_QUALIFIER -- codes that are assigned by an individual who validates the result; this validation is performed only at the request of the project management for which the sample was collected. If no VALIDATION_QUALIFIER is recorded, then the validator either did not validate the

record or agreed with the value reported and LAB_QUALIFIER code(s). Table D-4 defines the codes.

- WELL_ID -- Unique well identification number.
- WELL_NAME -- Name of the well or borehole from which the sample was collected. Names beginning with 199-B are located in 100-BC. Names beginning 699- are located outside the former operational error. Temporary boreholes and some aquifer tubes have names identical to the WELL_ID. Other well name formats (e.g., 05-M, AT-B-4-S) are aquifer tubes.

Table D-2. Laboratory Qualifiers

Code	Translations
*	INORGANICS - Duplicate analysis not within control limits.
+	INORGANICS - Correlation coefficient for Method of Standard Additions (MSA) is < 0.995.
>	WETCHEM - Result greater than quantifiable range or greater than upper limit of the analysis range.
A	ORGANICS - Valid for TICs only: The TIC is a suspected aldolcondensation product.
B	INORGANICS and WETCHEM - The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate). ORGANICS - The analyte was detected in both the associated. QC blank and in the sample. RADIONUCLIDES - The associated QC sample blank has a result ≥ 2X the MDA and, after corrections, result is ≥ MDA for this sample.
C	INORGANICS/WETCHEM: The analyte was detected in both the sample and the associated QC blank, and the sample concentration was ≤ 5X the blank concentration. ORGANICS (PESTICIDE only) – The identification of a pesticide confirmed by gas chromatograph/mass spectrometer (GC/MS).
D	All - Analyte was reported at a secondary dilution factor, typically DF>1 (i.e., the primary preparation required dilution to either bring the analyte within the calibration range or to minimize interference). Required for organics/wetchem if the sample was diluted.
E	INORGANICS - Reported value is estimated because of interference. See comment on cover page, hardcopy case narrative, or specific inorganic hardcopy data sheet. ORGANICS - Concentration exceeds the calibration range of the GC/MS.
J	ORGANICS - Estimated value; (1) constituent detected at a level less than the RDL or PQL and greater than or equal to the MDL, (2) estimated concentration for tentatively identified compounds (TICs). Note - For HEIS data generated before December 1, 2002, laboratories may have applied a “J” qualifier to non-organic results. When applied, application was based primarily on criteria comparable to statement (1) above. Before January, 1998, validation qualifiers (including “J”) were recorded in the LAB_QUALIFIER field without identification as validation qualifiers.
L	MDL ≤ value < CRQL [RETIRED]
M	INORGANICS - Duplicate precision criteria not met.
N	ALL (except GC/MS based analysis) - Spike and/or spike duplicate sample recovery is outside control limits. ORGANICS (GC/MS only) - Presumptive evidence of compound based on mass spectral library search.

Table D-2. Laboratory Qualifiers

Code	Translations
P	ORGANICS (PCB only) - Aroclor target analyte with greater than 25% difference between column analyses.
Q	ORGANICS (Dioxins & PCB Congeners only) – Estimated maximum concentration. Used if one of the qualitative identification criteria is not met (e.g., Cl isotopic ratios outside theoretical range.)
S	INORGANICS - Reported value determined by the Method of Standard Additions (MSA).
T	Organics (GC/MS only) - Spike and/or spike duplicate sample recovery is outside control limits.
U	ALL - Analyzed for but not detected above limiting criteria. Limiting criteria may be any of the following: value reported < 0; value reported < counting error ; value reported < total analytical error; value_rptd ≤ contract MDL/IDL/MDA/PQL. Note – When another qualifier accompanies a "U" qualifier the result is always considered non-detected. The qualifier combinations "UJ" and "UL" indicate that the result was non-detected, but the detection limit (i.e., value reported in the VALUE_RPTD or MIN_DETECTABLE_ACTIVITY [rad analysis only] fields was estimated.
W	INORGANICS - Post-digestion spike recovery for GFAA out of control limit. Sample absorbency < 50% of spike absorbency.
X	ALL – The result-specific translation of this qualifier code is provided in the hardcopy data report and/or case narrative. Additional result-specific translation information may also be found in the RESULT_COMMENT field for this record.
Y	Same as X if more than one flag is required. In the process of being retired.
Z	Same as X and Y if more than two flags are required. In the process of being retired.

Table D-3. Review Qualifiers

Code	Translations
F	This code is temporarily assigned while the result is undergoing further review.
G	Record has been reviewed and determined to be correct, or the record has been corrected with laboratory confirmation or other supporting information.
H	Laboratory holding time exceeded before the sample was analyzed.
P	Potential problem. Collection/analysis circumstances makes value questionable.
Q	Associated quality control sample is out of limits.
R	Do not use. Further review indicates the result is not valid.
Y	Result suspect. Review - insufficient evidence to show result valid or invalid.
Z	Miscellaneous circumstances exist. Additional information may be found in the RESULT_COMMENT field for this record and/or in the SAMP_COMMENT field of the parent sample record.

Table D-4. Validation Qualifiers

Code	Translations
J	Estimated value: The associated result value may not reflect quantitation/detection levels (if assigned with an associated "U" qualifier) or actual concentrations with the precision/accuracy typically associated with results by this methodology. Result precision/accuracy may have been affected because of minor quality control deficiency/s or sample matrix interferences identified during data validation.
R	Rejected value: The value may not reflect true concentrations. The ability to establish detection/non-detection may be questionable. Validation activities identified major quality control deficiency/s or sample matrix interferences. The data should be considered unusable for most purposes. Any use of this data should be undertaken with great care. The data should not be used for certain regulatory decision-making purposes.
U	Functional non-detect: The constituent was analyzed for and reported as detected by the laboratory. The constituent has been assigned a non-detect qualifier because of associated low-level analytical batch contamination or other circumstances noted by the validator that indicates that use of the data as detected is inappropriate. Validation may result in a revised reported value. Revised results typically involve substituting the quantitation/reporting limit if greater than the initial laboratory reported value. This qualifier may be assigned along with either, but never both, of the other validation qualifiers. In that case, both definitions apply to the associated result. The data should be considered usable as a non-detect for most decision-making purposes.

D2.1 Soil Analytical Data

Soil analytical data were compiled from waste site remedial actions (e.g., confirmation sampling, waste site excavation) and previous site investigation activities.

D2.1.1 Post-Remedial Action Waste Site Data

Sample numbers and locations used to support approved waste site reclassification within the 100-F/IU-2/IU-6 Area were compiled to March 1, 2012. The data represent soil remaining in place at waste sites that were remediated, interim closed, or required no further action based on sampling results and analysis. Specific details regarding sampling methods and locations are provided in the Cleanup Verification Package (CVP) and Remaining Sites Verification Package (RSVP) reports prepared for each waste site, listed below. These data were extracted from the HEIS database on August 11, 2011 and September 24, 2012.

The following types of data are not included in the waste site post-remedial action soil analytical data:

- Quality control (QC) samples (e.g., equipment blanks and field trip blanks)
- Variance samples
- In-Process samples

The 100-F/IU-2/IU-6 data were compiled based on the following CVP and RSVP reports related to waste site remedial actions:

- CVP-2001-00001, *Cleanup Verification Package for the 100-F-2 Strontium Garden*.

- CVP-2001-00002, *Cleanup Verification Package for the 100-F-19:1 and 100-F-19:3 Reactor Cooling Water Effluent Pipelines, 100-F-34 Biology Facility French Drain, and 116-F-12 French Drain*.
- CVP-2001-00003, *Cleanup Verification Package for the 100-F-19:2 Reactor Cooling Water Effluent Pipeline, 116-F-11 Cushion Corridor French Drain, UPR-100-F-1 Sewer Line Leak, and 100-F-29 Experimental Animal Farm Process Sewer Pipelines*.
- CVP-2001-00005, *Cleanup Verification Package for the 116-F-2, 107-F Liquid Waste Disposal Trench*.
- CVP-2001-00006, *Cleanup Verification Package for the 116-F-4 Pluto Crib*.
- CVP-2001-00007, *Cleanup Verification Package for the 116-F-5 Ball Washer Crib*.
- CVP-2001-00008, *Cleanup Verification Package for the 116-F-9 Animal Waste Leaching Trench*.
- CVP-2001-00009, *Cleanup Verification Package for the 116-F-14 Retention Basin*.
- CVP-2001-00010, *Cleanup Verification Package for the 1607-F6 Septic System and Pipelines*.
- CVP-2001-00011, *Cleanup Verification Package for the UPR-100-F-2 Basin Leak Ditch*.
- CVP-2001-00019, *Cleanup Verification Package for the JA Jones 1 Site*.
- CVP-2001-00020, *Cleanup Verification Package for the 600-23 Dumping Area*.
- CVP-2002-00001, *Cleanup Verification Package for the 100-F-4, 100-F-11, 100-F-15, and 100-F-16 French Drains*.
- CVP-2002-00004, *Cleanup Verification Package for the 126-F-1, 184-F Powerhouse Ash Pit*.
- CVP-2002-00005, *Cleanup Verification Package for the 1607-F2 Septic System*.
- CVP-2002-00007, *Cleanup Verification Package for the 100-F-35 Soil Contamination Site*.
- CVP-2002-00008, *Cleanup Verification Package for the 116-F-3 Fuel Storage Basin Trench*.
- CVP-2002-00009, *Cleanup Verification Package for the 116-F-1 Lewis Canal*.
- CVP-2002-00010, *Cleanup Verification Package for the 116-F-6 Liquid Waste Disposal Trench*.
- CVP-2003-00003, *Cleanup Verification Package for the 116-F-10, 105-F Dummy Decontamination French Drain*.
- CVP-2003-00010, *Cleanup Verification Package for the 100-F-25, 146-FR Drywells and the UPR-100-F-3 Mercury Spill*.
- CVP-2003-00011, *Cleanup Verification Package for the 100-F-23, 141-C Drywell*.
- CVP-2003-00012, *Cleanup Verification Package for the 100-F-24, 145-F Drywell*.
- CVP-2003-00017, *Cleanup Verification Package for the 118-F-8:1, 105-F Reactor Below-Grade Structures and Underlying Soils; the 118-F-8:3, 105-F Fuel Storage Basin Underlying Soils; and the 100-F-10 French Drain*.

- CVP-2006-00007, *Cleanup Verification Package for the 118-F-7, 100-F Miscellaneous Hardware Storage Vault*.
- CVP-2006-00008, *Cleanup Verification Package for the 118-F-3, Minor Construction Burial Ground*.
- CVP-2006-00009, *Cleanup Verification Package for the 100-F-20, Pacific Northwest Laboratory Parallel Pits*.
- CVP-2007-00001, *Cleanup Verification Package for the 118-F-1 Burial Ground*.
- CVP-2007-00002, *Cleanup Verification Package for the 118-F-2 Burial Ground*.
- CVP-2007-00003, *Cleanup Verification Package for the 118-F-5 PNL Sawdust Pit*.
- CVP-2007-00004, *Cleanup Verification Package for the 118-F-8:4 Fuel Storage Basin West Side Adjacent and Side Slope Soils*.
- CVP-2008-00001, *Cleanup Verification Package for the 118-F-6 Burial Ground*.
- WSRF 2004-062, *Waste Site Reclassification Form*, Operable Unit 100-IU-6, Waste Site ID 600-110, with attachment, "Remaining Sites Verification Package for 600-110 Hanford Townsite Landfill."
- WSRF 2004-093, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 100-F-38, with attachment, "Remaining Sites Verification Package for the 100-F-38, Stained Soil Site."
- WSRF 2004-095, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 100-F-37, with attachment, "Remaining Sites Verification Package for the I100-F-37, French Drain Discovered Near Hydrant F-2."
- WSRF 2004-098, *Waste Site Reclassification Form*, Operable Unit 100-IU-6, Waste Site ID 600-98, with attachment, "Remaining Sites Verification Package for 600-98 East White Bluffs City Landfill."
- WSRF 2004-124, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 100-F-7, with attachment, "Remaining Sites Verification Package for the 100-F-7 Underground Fuel Tank for the 1705-F Building."
- WSRF 2004-125, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 100-F-9, with attachment, "Remaining Sites Verification Package for the 100-F-9 French Drain at the East End of the 105-F Storage Room."
- WSRF 2004-126, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 100-F-12, with attachment, "Remaining Sites Verification Package for the 100-F-12 French Drain."
- WSRF 2004-127, *Waste Site Reclassification Form*, Operable Unit 100-FR-2, Waste Site ID 100-F-14, with attachment, "Remaining Sites Verification Package for the 100-F-14, 100-FR-2 Vent Pipe, 100-F Carpenter Shop Vent Pipe."
- WSRF 2004-128, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 116-F-7, Seal Pit Water Crib, with attachment, "Remaining Sites Verification Package for the 116-F-7 Seal Pit Water Crib."

- WSRF 2004-129, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 118-F-4, with attachment, "Remaining Sites Verification Package for the 118-F-4, 115-F Pit."
- WSRF 2004-130, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site Code 1607-F1, with attachment, "Remaining Sites Verification Package for the 1607-F1 Sanitary Sewer System (124-F-1) and the 100-F-26:8 (1607-F1) Sanitary Sewer Pipelines Waste Sites."
- WSRF 2004-131, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site Code 1607-F4, with attachment, "Remaining Sites Verification Package for the 1607-F4 Sanitary Sewer System."
- WSRF 2004-136, *Waste Site Reclassification Form*, Operable Unit 100-IU-2, Waste Site ID 600-129 and 600-191, with attachment, "Remaining Sites Verification Package for the 600-129 and 600-191, White Bluffs Pre-Manhattan Engineering District (MED) Community Dump Sites 1 and 2."
- WSRF 2004-137, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 100-F-18, with attachment, "Remaining Sites Verification Package for the 100-F-18 Condensate Drain Field and Underground Tank."
- WSRF 2005-008 Attachment, *Remaining Sites Verification Package for the 100-F-26:1 North Process Sewer Collection Pipelines*.
- WSRF 2005-025, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 182-F, with attachment, "Remaining Sites Verification Package for the 182-F Reservoir Waste Site."
- WSRF 2005-043, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 132-F-4:2, 116-F Reactor Stack Base Burial.
- WSRF 2005-044, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 116-F-7:2, 117-F Crib Pipeline.
- WSRF 2006-017, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 126-F-2, with attachment, "Remaining Sites Verification Package for the 126-F-2,183-F Clearwells."
- WSRF 2006-021, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 100-F-33, with attachment, "Remaining Sites Verification Package for the 100-F-33, 146-F Aquatic Biology Fish Ponds."
- WSRF 2006-027, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 141-C, with attachment, "Remaining Sites Verification Package for the 141-C Large Animal Barn and Biology Laboratory (Hog Barn)."
- WSRF 2006-029, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 132-F-1, with attachment, "Remaining Sites Verification Package for the 132-F-1, 141-F Chronic Feeding Sheep Barn."
- WSRF 2006-033, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 100-F-31, with attachment, "Remaining Sites Verification Package for the 100-F-31, 144-F Sanitary Sewer System."
- WSRF 2006-038, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 116-F-8, with attachment, "Remaining Sites Verification Package for the 116-F-8, 1904-F Outfall Structure and the 100-F-42, 1904-F Spillway."

- WSRF 2006-038 Attachment, 2006, *Remaining Sites Verification Package for the 116-F-8, 1904-F Outfall Structure and the 100-F-42, 1904-F Spillway*.
- WSRF 2006-039, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 116-F-16, with attachment, "Remaining Sites Verification Package for the 116-F-16, PNL Outfall and the 100-F-43, PNL Outfall Spillway."
- WSRF 2006-039 Attachment, *Remaining Sites Verification Package for the 116-F-16, PNL Outfall and the 100-F-43, PNL Outfall Spillway*.
- WSRF 2006-043, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site ID 1607-F5, with attachment, "Remaining Sites Verification Package for the 1607-F5 Sanitary Sewer System (124-F-5)."
- WSRF 2006-047, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site Code 1607-F3, with attachment, "Remaining Sites Verification Package for the 1607-F3 Sanitary Sewer System."
- WSRF 2007-001, *Waste Site Reclassification Form*, Operable Unit 100-FR-2, Waste Site Code 100-F-50, with attachment, "Remaining Sites Verification Package for the 100-F-50 Stormwater Runoff Culvert."
- WSRF 2007-002, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site Code 100-F-36, with attachment, "Remaining Sites Verification Package for the 100-F-36, 108-F Biological Laboratory, and for the 116-F-15, 108-F Radiation Crib."
- WSRF 2010-055, *Waste Site Reclassification Form*, Operable Unit 100-IU-2, Waste Site Code 600-346, with attachment, "Remaining Sites Verification Package for the 600-346, 100-BC Vicinity Ash and Debris Area."
- WSRF 2010-087, *Waste Site Reclassification Form*, Operable Unit 100-IU-2, Waste Site Code 600-5, with attachment, "Remaining Sites Verification Package for the 600-5, White Bluffs Waste Oil Dump and Asphalt Heliport."
- WSRF 2011-015, *Waste Site Reclassification Form*, Operable Unit 100-IU-2, Waste Site Code 600-296, with attachment, "Remaining Sites Verification Package for the 600-296, White Bluffs Fire Department Septic System."
- WSRF 2011-024, *Waste Site Reclassification Form*, Operable Unit 100-IU-6, Waste Site Code 600-315, with attachment, "Remaining Sites Verification Package for the 600-315, Black Granular Stain."
- WSRF 2011-029, *Waste Site Reclassification Form*, Operable Unit 100-IU-2, Waste Site Code 600-176, with attachment, "Remaining Sites Verification Package for the 600-176, White Bluffs Paint Disposal Area."
- WSRF 2011-030, *Waste Site Reclassification Form*, Operable Unit 100-IU-6, Waste Site Code 600-202, with attachment, "Remaining Sites Verification Package for the 600-202, Hanford Townsite Four Burn and Burial Pits."
- WSRF 2011-031, *Waste Site Reclassification Form*, Operable Unit 100-IU-6, Waste Site Code 600-205, with attachment, "Remaining Sites Verification Package for the 600-205, Hanford Townsite Landfill 2."

- WSRF 2011-051, *Waste Site Reclassification Form*, Operable Unit 100-IU-6, Waste Site Code 600-108/600-257, with attachment, "Remaining Sites Verification Package for the 600-108 and 600-257, 213-K Vault and 213-J Vault."
- WSRF 2011-057, *Waste Site Reclassification Form*, Operable Unit 100-IU-6, Waste Site Code 600-178, with attachment, "Remaining Sites Verification Package for the 600-178, 213-J and 213-K Guard House Toilet Pit."
- WSRF 2011-069, *Waste Site Reclassification Form*, Operable Unit 100-IU-6, Waste Site Code 600-186, with attachment, "Remaining Sites Verification Package for the 600-186, Hanford Construction Came Septic Tanks and Sewage Treatment Plants."
- WSRF 2011-072, *Waste Site Reclassification Form*, Operable Unit 100-IU-6, Waste Site Code 600-3, with attachment, "Remaining Sites Verification Package for the 600-3, Hanford Townsite Excess Material Storage Yard/Paint Pit."
- WSRF 2011-073, *Waste Site Reclassification Form*, Operable Unit 100-IU-6, Waste Site Code 600-350, with attachment, "Remaining Sites Verification Package for the 600-350, PNL Water Catchment Experiment."
- WSRF 2011-083, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site Code 100-F-55, with attachment, "Remaining Sites Verification Package for the 100-F-55, 1607-F7 Contaminated Ash Layer and 100-F-62, Animal Farm Septic Lines."
- WSRF 2011-084, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site Code 100-F-45, with attachment, "Remaining Sites Verification Package for the 100-F-45, Buried River Effluent Pipelines."
- WSRF 2011-085, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site Code 100-F-51, with attachment, "Remaining Sites Verification Package for the 100-F-51, 146-F Fish Laboratory Soil and 100-F-63, Animal Farm Radioactive Effluent Lines."
- WSRF 2011-086, Waste Site Reclassification Form, Operable Unit 100-FR-1, Waste Site Code 100-F-47, with attachment, "Remaining Sites Verification Package for the 100-F-47, 151-F Substation."
- WSRF 2011-087, *Waste Site Reclassification Form*, Operable Unit 100-FR-2, Waste Site Code 600-351, with attachment, "Remaining Sites Verification Package for the 600-351, Stained Areas Outside of 100-F Area."
- WSRF 2011-089, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site Code 100-F-49, with attachment, "Remaining Sites Verification Package for the 100-F-49, 1716-F Maintenance Garage Lubrication Pit."
- WSRF 2011-093, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site Code 100-F-48, with attachment, "Remaining Sites Verification Package for the 100-F-48, 184-F Coal Pit Debris."
- WSRF 2011-097, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site Code 100-F-63, with attachment, "Remaining Sites Verification Package for the 100-F-51, 146-F Fish Laboratory Soil and 100-F-63, Animal Farm Radioactive Effluent Lines."

- WSRF 2011-103, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site Code 100-F-61, with attachment, "Remaining Sites Verification Package for the 100-F-61, Stained Soil Near 100-F-12 Waste Sites."
- WSRF 2011-104, *Waste Site Reclassification Form*, Operable Unit 100-FR-1, Waste Site Code 100-F-62, with attachment, "Remaining Sites Verification Package for the 100-F-55, 1607-F7 Contaminated Ash Layer and 100-F-62, Animal Farm Septic Lines."

D2.1.2 Historical Remedial Investigation Data

Soil analytical data from Limited Field Investigation (LFI) reports and other investigation activities not directly related to waste site remediation were compiled.

Available soil analytical data to December 31, 2009, in HEIS were exported from HEIS on February 11, 2010. The following references provided Sample IDs for data within the 100-F/IU-2/IU-6 Area:

- DOE/RL-93-82, *Limited Field Investigation Report for the 100-FR-1 Operable Unit*.
- DOE/RL-93-83, *Limited Field Investigation Report for the 100-FR-3 Operable Unit*.
- UNI-946, *Radiological Characterization of the Retired 100 Areas*.

D2.2 Groundwater Analytical Data

Electronically available groundwater analytical data for the 100-F/IU-2/IU-6 area in support of the RI/FS were compiled from available sampling locations (including existing wells and aquifer tubes). The data were compiled from January 1, 2007, to December 31, 2011, to cover the last 5 years of sampling data. The files were downloaded from the Hanford Virtual Library (portal to HEIS) on May 22, 2012, and included all available sampling locations and analytical constituents within the 100-F/IU-2/IU-6 Area.

D2.3 Well and Borehole Information

Well and borehole information includes horizontal coordinates, drill date, well status (e.g., in use or decommissioned), total depth, and well screen information, where available. The data were compiled from information available in the Hanford Well Information System (HWIS) and the Hanford QMAP geospatial map portal Waste Information Data System and Wells mapping application on June 18, 2010.

D2.4 Fate and Transport Parameters

Data and information to support fate and transport evaluations for the RI/FS consisted of the following parameters:

- Contaminant distribution coefficients
- Dispersivity
- Hydraulic conductivity
- Bulk density

Data related to these parameters are available in the following reports:

- PNL-10886, *Development of a Three Dimensional Ground Water Model of the Hanford Site Unconfined Aquifer System: FY 1995 Status Report*.
- PNNL-14702, *Vadose Zone Hydrogeology Data Package for Hanford Assessments*.

- SGW-47040, *Geohydrologic Data Package in Support of 100-FR-3 Modeling*.
- WHC-SD-EN-TI-221, *Geology of the 100-FR-3 Operable Unit, Hanford Site, South-Central Washington*.

D2.5 Geologic Information

Geologic contact information between major units was compiled for the 100-F/IU-2/IU-6 Area. Geologic contact information is presented for 100-F/IU-2/IU-6 in included in *100 Area Stratigraphic Database Development* (ECF-100NPL-11-0070).

D2.6 Groundwater Levels and River Stage

Data for groundwater depths and elevations and river stage elevations were compiled for the 100-F/IU-2/IU-6 Area.

D2.6.1 Groundwater Levels

Groundwater elevation data (manual measurements) for 100-F/IU-2/IU-6 wells were extracted from HEIS for the period 1950 through 2011. Selected wells in 100-F are part of the automated water level network (AWLN); hourly data are provided for those wells.

The text below explains field codes that are specific to water-level data. Other field codes are explained in the preceding sections.

- HYD_DATE_TIME_PST -- Date of measurement
- HYD_HEAD_METERS_NAVD88 -- Water level elevation in meters above *North American Vertical Datum of 1988* (NAVD88)
- DEPTH_TO_WATER_MP -- Measured depth below measuring point
- DEPTH_TO_WATER_MP_UNITS -- Units in which original measurement made
- RP_ELEV_METERS_NAVD88 -- Elevation of reference point in meters above *North American Vertical Datum of 1988* (NAVD88)
- MP_MINUS_RP -- Difference in elevation between measuring point and reference point
- MP_MINUS_RP_UNITS -- Units of depth
- DEPTH_TO_WATER_RP -- Depth below reference point
- DEPTH_TO_WATER_RP_UNITS -- Depth units
- REVIEW_QUALIFIER -- Indicator code that the quality of the data point is questioned, assigned by the data owners. Table D-3 explains the qualifier codes.

D2.6.2 River Stage

The AWLN database also contains river stage elevations from a network of river stage monitors along the Hanford Site. Data from one 100-F river gauge from November 19, 1992 (the earliest data for which river stage data were available in the AWLN database for 100-F), to December 31, 2009, were downloaded from the AWLN database on June 18, 2010.

Additional river stage data were downloaded from the United State Geological Survey (USGS) site for the Priest Rapids Dam gauge (the Columbia River dam nearest to the Hanford Site) on May 10, 2010. The website address is http://waterdata.usgs.gov/wa/nwis/uv?site_no=12472800. Priest Rapids Dam is located approximately 13 km (8 miles) upstream of 100-F. Daily discharge information for the gauge was available from October 1, 1917, to December 31, 2009. Daily gauge height information was available from October 3, 1992, to December 3, 2009.

D3 Summary of the RI/FS Field Investigation Activities Data Compilation

Samples for the 100-F/IU-2/IU-6 RI/FS were collected per *Sampling and Analysis Plan for the 100-FR-1, 100-FR-2, 100-FR-3, 100-IU-2, and 100-IU-6 Operable Units Remedial Investigation/Feasibility Study* (DOE/RL-2009-43). According to the SAP (DOE/RL-2009-43), soil and water samples were collected from new boreholes and wells and included soil contaminant analytical data, soil physical properties (grain size, porosity, and moisture content), soil distribution coefficient data, and groundwater contaminant analytical data. In addition, groundwater samples for analytical analyses are being collected from existing monitoring wells to evaluate spatial and temporal uncertainties with respect to groundwater contaminant concentrations.

D3.1 Sample Summary for RI Boreholes and Wells

The following new boreholes and wells were drilled to support the 100-F/IU-2/IU-6 RI/FS process (as described in Chapter 3 and the SAP [DOE/RL-2009-43]): C7790, C7791, C7792, C7970, C7971, and C7972. Soil and groundwater Sample IDs associated with these boreholes are presented in Table D-5.

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7790	199-F5-52	B26T51	GW
C7790	199-F5-52	B26T52	GW
C7790	199-F5-52	B26T53	GW
C7790	199-F5-52	B26T54	GW
C7790	199-F5-52	B26T55	GW
C7790	199-F5-52	B26T56	GW
C7790	199-F5-52	B26T57	GW
C7790	199-F5-52	B26T58	GW
C7790	199-F5-52	B26T71	GW
C7790	199-F5-52	B26T72	GW
C7790	199-F5-52	B26T73	GW
C7790	199-F5-52	B26T74	GW
C7790	199-F5-52	B26W67	GW
C7790	199-F5-52	B26W68	GW
C7790	199-F5-52	B26T46	GW

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7790	199-F5-52	B26T48	GW
C7790	199-F5-52	B26TB3	SO
C7790	199-F5-52	B26TB4	SO
C7790	199-F5-52	B26TB7	SO
C7790	199-F5-52	B26TB8	SO
C7790	199-F5-52	B26TC1	SO
C7790	199-F5-52	B26TC2	SO
C7790	199-F5-52	B26RY4	SO
C7790	199-F5-52	B26RY5	SO
C7790	199-F5-52	B26RY7	SO
C7790	199-F5-52	B26T04	SO
C7790	199-F5-52	B26T05	SO
C7790	199-F5-52	B26T06	SO
C7790	199-F5-52	B26T07	SO
C7790	199-F5-52	B26T10	SO
C7790	199-F5-52	B26T11	SO
C7790	199-F5-52	B26T12	SO
C7790	199-F5-52	B26T17	SO
C7790	199-F5-52	B26T18	SO
C7790	199-F5-52	B26T20	SO
C7790	199-F5-52	B26T22	SO
C7790	199-F5-52	B26T25	SO
C7790	199-F5-52	B26T30	SO
C7790	199-F5-52	B26T32	SO
C7790	199-F5-52	B26T34	SO
C7790	199-F5-52	B26T44	SO
C7790	199-F5-52	B26T19-1	SO
C7790	199-F5-52	B26T19-2	SO
C7790	199-F5-52	B26T19-3	SO
C7790	199-F5-52	B26T19-4	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7790	199-F5-52	B26T19-A1	SO
C7790	199-F5-52	B26T19-A2	SO
C7790	199-F5-52	B26T19-B1	SO
C7790	199-F5-52	B26T19-C1	SO
C7790	199-F5-52	B26T21-1	SO
C7790	199-F5-52	B26T21-2	SO
C7790	199-F5-52	B26T21-3	SO
C7790	199-F5-52	B26T21-4	SO
C7790	199-F5-52	B26T21-A1	SO
C7790	199-F5-52	B26T21-A2	SO
C7790	199-F5-52	B26T21-B1	SO
C7790	199-F5-52	B26T21-C1	SO
C7790	199-F5-52	B26T23-1	SO
C7790	199-F5-52	B26T23-2	SO
C7790	199-F5-52	B26T23-3	SO
C7790	199-F5-52	B26T23-4	SO
C7790	199-F5-52	B26T23-A1	SO
C7790	199-F5-52	B26T23-B1	SO
C7790	199-F5-52	B26T23-B2	SO
C7790	199-F5-52	B26T23-C1	SO
C7790	199-F5-52	B26T31-1	SO
C7790	199-F5-52	B26T31-2	SO
C7790	199-F5-52	B26T31-3	SO
C7790	199-F5-52	B26T31-4	SO
C7790	199-F5-52	B26T31-A1	SO
C7790	199-F5-52	B26T31-B1	SO
C7790	199-F5-52	B26T31-C1	SO
C7790	199-F5-52	B26T31-C2	SO
C7790	199-F5-52	B26T33-1	SO
C7790	199-F5-52	B26T33-2	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7790	199-F5-52	B26T33-3	SO
C7790	199-F5-52	B26T33-4	SO
C7790	199-F5-52	B26T33-A1	SO
C7790	199-F5-52	B26T33-B1	SO
C7790	199-F5-52	B26T33-C1	SO
C7790	199-F5-52	B26T33-C2	SO
C7790	199-F5-52	B26T45-1	SO
C7790	199-F5-52	B26T45-2	SO
C7790	199-F5-52	B26T45-3	SO
C7790	199-F5-52	B26T45-4	SO
C7790	199-F5-52	B26T45-A1	SO
C7790	199-F5-52	B26T45-B1	SO
C7790	199-F5-52	B26T45-C1	SO
C7790	199-F5-52	B26T45-C2	SO
C7791	199-F5-53	B273B9	GW
C7791	199-F5-53	B273C0	GW
C7791	199-F5-53	B273C2	GW
C7791	199-F5-53	B273C7	GW
C7791	199-F5-53	B273C8	GW
C7791	199-F5-53	B273C9	GW
C7791	199-F5-53	B273D1	GW
C7791	199-F5-53	B273D6	GW
C7791	199-F5-53	B273D7	GW
C7791	199-F5-53	B273B0	GW
C7791	199-F5-53	B273B1	GW
C7791	199-F5-53	B273B2	SO
C7791	199-F5-53	B273B3	SO
C7791	199-F5-53	B273B4	SO
C7791	199-F5-53	B273B5	SO
C7791	199-F5-53	B273B6	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7791	199-F5-53	B27360	SO
C7791	199-F5-53	B27369	SO
C7791	199-F5-53	B27370	SO
C7791	199-F5-53	B27372	SO
C7791	199-F5-53	B27374	SO
C7791	199-F5-53	B27375	SO
C7791	199-F5-53	B27381	SO
C7791	199-F5-53	B27382	SO
C7791	199-F5-53	B27383	SO
C7791	199-F5-53	B27385	SO
C7791	199-F5-53	B27386	SO
C7791	199-F5-53	B27387	SO
C7791	199-F5-53	B27388	SO
C7791	199-F5-53	B27394	SO
C7791	199-F5-53	B27395	SO
C7791	199-F5-53	B27396	SO
C7791	199-F5-53	B27397	SO
C7791	199-F5-53	B28MY9	SO
C7791	199-F5-53	B28N00	SO
C7791	199-F5-53	B28N01	SO
C7791	199-F5-53	B28N02	SO
C7791	199-F5-53	B28N03	SO
C7791	199-F5-53	B28N12	SO
C7791	199-F5-53	B27356-1	SO
C7791	199-F5-53	B27356-2	SO
C7791	199-F5-53	B27356-3	SO
C7791	199-F5-53	B27356-4	SO
C7791	199-F5-53	B27356-A1	SO
C7791	199-F5-53	B27356-B1	SO
C7791	199-F5-53	B27356-C1	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7791	199-F5-53	B27356-C2	SO
C7791	199-F5-53	B27357-1	SO
C7791	199-F5-53	B27357-2	SO
C7791	199-F5-53	B27357-3	SO
C7791	199-F5-53	B27357-4	SO
C7791	199-F5-53	B27357-A1	SO
C7791	199-F5-53	B27357-B1	SO
C7791	199-F5-53	B27357-B2	SO
C7791	199-F5-53	B27357-C1	SO
C7791	199-F5-53	B27359-1	SO
C7791	199-F5-53	B27359-2	SO
C7791	199-F5-53	B27359-3	SO
C7791	199-F5-53	B27359-4	SO
C7791	199-F5-53	B27359-A1	SO
C7791	199-F5-53	B27359-B1	SO
C7791	199-F5-53	B27359-B2	SO
C7791	199-F5-53	B27359-C1	SO
C7791	199-F5-53	B27361-1	SO
C7791	199-F5-53	B27361-2	SO
C7791	199-F5-53	B27361-3	SO
C7791	199-F5-53	B27361-4	SO
C7791	199-F5-53	B27361-A1	SO
C7791	199-F5-53	B27361-B1	SO
C7791	199-F5-53	B27361-C1	SO
C7791	199-F5-53	B27361-C2	SO
C7791	199-F5-53	B27362-1	SO
C7791	199-F5-53	B27362-2	SO
C7791	199-F5-53	B27362-3	SO
C7791	199-F5-53	B27362-4	SO
C7791	199-F5-53	B27362-A1	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7791	199-F5-53	B27362-B1	SO
C7791	199-F5-53	B27362-C1	SO
C7791	199-F5-53	B27362-C2	SO
C7791	199-F5-53	B27368-1	SO
C7791	199-F5-53	B27368-2	SO
C7791	199-F5-53	B27368-3	SO
C7791	199-F5-53	B27368-4	SO
C7791	199-F5-53	B27368-A1	SO
C7791	199-F5-53	B27368-A2	SO
C7791	199-F5-53	B27368-B1	SO
C7791	199-F5-53	B27368-C1	SO
C7792	199-F5-54	B26YX7	GW
C7792	199-F5-54	B26YX8	GW
C7792	199-F5-54	B26YX9	GW
C7792	199-F5-54	B26YY0	GW
C7792	199-F5-54	B26YY1	GW
C7792	199-F5-54	B26YY2	GW
C7792	199-F5-54	B26YY5	GW
C7792	199-F5-54	B26YY6	GW
C7792	199-F5-54	B26YY7	GW
C7792	199-F5-54	B26YY8	GW
C7792	199-F5-54	B26YY9	GW
C7792	199-F5-54	B27000	GW
C7792	199-F5-54	B26Y99	GW
C7792	199-F5-54	B26YB0	GW
C7792	199-F5-54	B26YX1	SO
C7792	199-F5-54	B26YX3	SO
C7792	199-F5-54	B273B7	SO
C7792	199-F5-54	B273B8	SO
C7792	199-F5-54	B274K6	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7792	199-F5-54	B274K7	SO
C7792	199-F5-54	B27PX9	SO
C7792	199-F5-54	B27PY0	SO
C7792	199-F5-54	B27PY1	SO
C7792	199-F5-54	B26Y55	SO
C7792	199-F5-54	B26Y56	SO
C7792	199-F5-54	B26Y57	SO
C7792	199-F5-54	B26Y58	SO
C7792	199-F5-54	B26Y60	SO
C7792	199-F5-54	B26Y61	SO
C7792	199-F5-54	B26Y62	SO
C7792	199-F5-54	B26Y63	SO
C7792	199-F5-54	B26Y64	SO
C7792	199-F5-54	B26Y65	SO
C7792	199-F5-54	B26Y67	SO
C7792	199-F5-54	B26Y68	SO
C7792	199-F5-54	B26Y69	SO
C7792	199-F5-54	B26Y73	SO
C7792	199-F5-54	B26Y74	SO
C7792	199-F5-54	B26Y75	SO
C7792	199-F5-54	B26Y76	SO
C7792	199-F5-54	B26Y77	SO
C7792	199-F5-54	B26Y78	SO
C7792	199-F5-54	B26Y80	SO
C7792	199-F5-54	B26Y81	SO
C7792	199-F5-54	B26Y82	SO
C7792	199-F5-54	B26Y86-1	SO
C7792	199-F5-54	B26Y86-2	SO
C7792	199-F5-54	B26Y86-3	SO
C7792	199-F5-54	B26Y86-4	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7792	199-F5-54	B26Y86-A1	SO
C7792	199-F5-54	B26Y86-A2	SO
C7792	199-F5-54	B26Y86-B1	SO
C7792	199-F5-54	B26Y86-C1	SO
C7792	199-F5-54	B26Y88-1	SO
C7792	199-F5-54	B26Y88-2	SO
C7792	199-F5-54	B26Y88-3	SO
C7792	199-F5-54	B26Y88-4	SO
C7792	199-F5-54	B26Y88-A1	SO
C7792	199-F5-54	B26Y88-B1	SO
C7792	199-F5-54	B26Y88-B2	SO
C7792	199-F5-54	B26Y88-C1	SO
C7792	199-F5-54	B26Y89-1	SO
C7792	199-F5-54	B26Y89-2	SO
C7792	199-F5-54	B26Y89-3	SO
C7792	199-F5-54	B26Y89-4	SO
C7792	199-F5-54	B26Y89-A1	SO
C7792	199-F5-54	B26Y89-A2	SO
C7792	199-F5-54	B26Y89-B1	SO
C7792	199-F5-54	B26Y89-C1	SO
C7792	199-F5-54	B26Y90-1	SO
C7792	199-F5-54	B26Y90-2	SO
C7792	199-F5-54	B26Y90-3	SO
C7792	199-F5-54	B26Y90-4	SO
C7792	199-F5-54	B26Y90-A1	SO
C7792	199-F5-54	B26Y90-B1	SO
C7792	199-F5-54	B26Y90-B2	SO
C7792	199-F5-54	B26Y90-C1	SO
C7792	199-F5-54	B26Y91-1	SO
C7792	199-F5-54	B26Y91-2	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7792	199-F5-54	B26Y91-3	SO
C7792	199-F5-54	B26Y91-4	SO
C7792	199-F5-54	B26Y91-A1	SO
C7792	199-F5-54	B26Y91-A2	SO
C7792	199-F5-54	B26Y91-B1	SO
C7792	199-F5-54	B26Y91-C1	SO
C7792	199-F5-54	B26Y93-1	SO
C7792	199-F5-54	B26Y93-2	SO
C7792	199-F5-54	B26Y93-3	SO
C7792	199-F5-54	B26Y93-4	SO
C7792	199-F5-54	B26Y93-A1	SO
C7792	199-F5-54	B26Y93-B1	SO
C7792	199-F5-54	B26Y93-B2	SO
C7792	199-F5-54	B26Y93-C1	SO
C7792	199-F5-54	B26Y94-1	SO
C7792	199-F5-54	B26Y94-2	SO
C7792	199-F5-54	B26Y94-3	SO
C7792	199-F5-54	B26Y94-4	SO
C7792	199-F5-54	B26Y94-A1	SO
C7792	199-F5-54	B26Y94-B1	SO
C7792	199-F5-54	B26Y94-C1	SO
C7792	199-F5-54	B26Y94-C2	SO
C7792	199-F5-54	B26Y95-1	SO
C7792	199-F5-54	B26Y95-2	SO
C7792	199-F5-54	B26Y95-3	SO
C7792	199-F5-54	B26Y95-4	SO
C7792	199-F5-54	B26Y95-A1	SO
C7792	199-F5-54	B26Y95-B1	SO
C7792	199-F5-54	B26Y95-C1	SO
C7792	199-F5-54	B26Y95-C2	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7970	199-F5-55	B2C687	GW
C7970	199-F5-55	B2C688	GW
C7970	199-F5-55	B2C689	GW
C7970	199-F5-55	B28NX3	GW
C7970	199-F5-55	B28NX4	GW
C7970	199-F5-55	B28NX5	GW
C7970	199-F5-55	B28NX6	GW
C7970	199-F5-55	B28NX7	GW
C7970	199-F5-55	B28NX8	GW
C7970	199-F5-55	B28NM6	SO
C7970	199-F5-55	B28NM7	SO
C7970	199-F5-55	B28NM8	SO
C7970	199-F5-55	B28NM9	SO
C7970	199-F5-55	B28NN0	SO
C7970	199-F5-55	B28NN1	SO
C7970	199-F5-55	B28NN2	SO
C7970	199-F5-55	B28NN3	SO
C7970	199-F5-55	B28NN9	SO
C7970	199-F5-55	B28NR3	SO
C7970	199-F5-55	B28NR4	SO
C7970	199-F5-55	B28NR5	SO
C7970	199-F5-55	B28NR6	SO
C7970	199-F5-55	B28NR7	SO
C7970	199-F5-55	B28NR8	SO
C7970	199-F5-55	B28NR9	SO
C7970	199-F5-55	B28NT5	SO
C7970	199-F5-55	B28NT6	SO
C7970	199-F5-55	B28NT7	SO
C7970	199-F5-55	B28NT8	SO
C7970	199-F5-55	B28NT9	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7970	199-F5-55	B28NV0	SO
C7970	199-F5-55	B28NV1	SO
C7970	199-F5-55	B28NV2	SO
C7970	199-F5-55	B28NV8	SO
C7970	199-F5-55	B28NV9	SO
C7970	199-F5-55	B28NW0	SO
C7970	199-F5-55	B28NW1	SO
C7970	199-F5-55	B28NW2	SO
C7970	199-F5-55	B28NW9	SO
C7970	199-F5-55	B28NX0	SO
C7970	199-F5-55	B28NX1	SO
C7970	199-F5-55	B28NX2	SO
C7970	199-F5-55	B2BXR1	SO
C7970	199-F5-55	B28NP0-1	SO
C7970	199-F5-55	B28NP0-2	SO
C7970	199-F5-55	B28NP0-3	SO
C7970	199-F5-55	B28NP0-4	SO
C7970	199-F5-55	B28NP0-A1	SO
C7970	199-F5-55	B28NP0-A2	SO
C7970	199-F5-55	B28NP0-B1	SO
C7970	199-F5-55	B28NP0-C1	SO
C7970	199-F5-55	B28NP1-1	SO
C7970	199-F5-55	B28NP1-2	SO
C7970	199-F5-55	B28NP1-3	SO
C7970	199-F5-55	B28NP1-4	SO
C7970	199-F5-55	B28NP1-A1	SO
C7970	199-F5-55	B28NP1-B1	SO
C7970	199-F5-55	B28NP1-B2	SO
C7970	199-F5-55	B28NP1-C1	SO
C7970	199-F5-55	B28NP2-1	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7970	199-F5-55	B28NP2-2	SO
C7970	199-F5-55	B28NP2-3	SO
C7970	199-F5-55	B28NP2-4	SO
C7970	199-F5-55	B28NP2-A1	SO
C7970	199-F5-55	B28NP2-B1	SO
C7970	199-F5-55	B28NP2-B2	SO
C7970	199-F5-55	B28NP2-C1	SO
C7970	199-F5-55	B28NP3-1	SO
C7970	199-F5-55	B28NP3-2	SO
C7970	199-F5-55	B28NP3-3	SO
C7970	199-F5-55	B28NP3-4	SO
C7970	199-F5-55	B28NP3-A1	SO
C7970	199-F5-55	B28NP3-B1	SO
C7970	199-F5-55	B28NP3-C1	SO
C7970	199-F5-55	B28NP3-C2	SO
C7970	199-F5-55	B28NP4-1	SO
C7970	199-F5-55	B28NP4-2	SO
C7970	199-F5-55	B28NP4-3	SO
C7970	199-F5-55	B28NP4-4	SO
C7970	199-F5-55	B28NP4-A1	SO
C7970	199-F5-55	B28NP4-A2	SO
C7970	199-F5-55	B28NP4-B1	SO
C7970	199-F5-55	B28NP4-C1	SO
C7970	199-F5-55	B28NP5-1	SO
C7970	199-F5-55	B28NP5-2	SO
C7970	199-F5-55	B28NP5-3	SO
C7970	199-F5-55	B28NP5-4	SO
C7970	199-F5-55	B28NP5-A1	SO
C7970	199-F5-55	B28NP5-B1	SO
C7970	199-F5-55	B28NP5-B2	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7970	199-F5-55	B28NP5-C1	SO
C7970	199-F5-55	B28NP6-1	SO
C7970	199-F5-55	B28NP6-2	SO
C7970	199-F5-55	B28NP6-3	SO
C7970	199-F5-55	B28NP6-4	SO
C7970	199-F5-55	B28NP6-A1	SO
C7970	199-F5-55	B28NP6-B1	SO
C7970	199-F5-55	B28NP6-B2	SO
C7970	199-F5-55	B28NP6-C1	SO
C7970	199-F5-55	B28NR2-1	SO
C7970	199-F5-55	B28NR2-2	SO
C7970	199-F5-55	B28NR2-3	SO
C7970	199-F5-55	B28NR2-4	SO
C7970	199-F5-55	B28NR2-A1	SO
C7970	199-F5-55	B28NR2-B1	SO
C7970	199-F5-55	B28NR2-B2	SO
C7970	199-F5-55	B28NR2-C1	SO
C7971	C7971	B28VV8	GW
C7971	C7971	B28VV9	GW
C7971	C7971	B28VW0	GW
C7971	C7971	B28VW1	GW
C7971	C7971	B28VW2	GW
C7971	C7971	B28VW3	GW
C7971	C7971	B28VL5	SO
C7971	C7971	B28VL6	SO
C7971	C7971	B28VL7	SO
C7971	C7971	B28VL9	SO
C7971	C7971	B28VM1	SO
C7971	C7971	B28VM2	SO
C7971	C7971	B28VM4	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7971	C7971	B28VM5	SO
C7971	C7971	B28VM6	SO
C7971	C7971	B28VM7	SO
C7971	C7971	B28VN1	SO
C7971	C7971	B28VN2	SO
C7971	C7971	B28VN3	SO
C7971	C7971	B28VN5	SO
C7971	C7971	B28VT9	SO
C7971	C7971	B28VV0	SO
C7971	C7971	B28VV1	SO
C7971	C7971	B28VV3	SO
C7971	C7971	B28VV4	SO
C7971	C7971	B2B6M3	SO
C7971	C7971	B28VL8-1	SO
C7971	C7971	B28VL8-2	SO
C7971	C7971	B28VL8-3	SO
C7971	C7971	B28VL8-4	SO
C7971	C7971	B28VL8-A1	SO
C7971	C7971	B28VL8-A2	SO
C7971	C7971	B28VL8-B1	SO
C7971	C7971	B28VL8-C1	SO
C7971	C7971	B28VM3-1	SO
C7971	C7971	B28VM3-2	SO
C7971	C7971	B28VM3-3	SO
C7971	C7971	B28VM3-4	SO
C7971	C7971	B28VM3-A1	SO
C7971	C7971	B28VM3-B1	SO
C7971	C7971	B28VM3-B2	SO
C7971	C7971	B28VM3-C1	SO
C7971	C7971	B28VN4-1	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7971	C7971	B28VN4-2	SO
C7971	C7971	B28VN4-3	SO
C7971	C7971	B28VN4-4	SO
C7971	C7971	B28VN4-A1	SO
C7971	C7971	B28VN4-B1	SO
C7971	C7971	B28VN4-C1	SO
C7971	C7971	B28VN4-C2	SO
C7971	C7971	B28VV2-1	SO
C7971	C7971	B28VV2-2	SO
C7971	C7971	B28VV2-3	SO
C7971	C7971	B28VV2-4	SO
C7971	C7971	B28VV2-A1	SO
C7971	C7971	B28VV2-B1	SO
C7971	C7971	B28VV2-B2	SO
C7971	C7971	B28VV2-C1	SO
C7972	199-F5-56	B2C6R7	GW
C7972	199-F5-56	B2C6R8	GW
C7972	199-F5-56	B2C6R9	GW
C7972	199-F5-56	B293J0	GW
C7972	199-F5-56	B293J1	GW
C7972	199-F5-56	B293J2	GW
C7972	199-F5-56	B293J3	GW
C7972	199-F5-56	B293J4	GW
C7972	199-F5-56	B293J5	GW
C7972	199-F5-56	B29386	SO
C7972	199-F5-56	B29387	SO
C7972	199-F5-56	B29388	SO
C7972	199-F5-56	B29390	SO
C7972	199-F5-56	B29391	SO
C7972	199-F5-56	B29392	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7972	199-F5-56	B29394	SO
C7972	199-F5-56	B29396	SO
C7972	199-F5-56	B29397	SO
C7972	199-F5-56	B29398	SO
C7972	199-F5-56	B293B0	SO
C7972	199-F5-56	B293B1	SO
C7972	199-F5-56	B293B2	SO
C7972	199-F5-56	B293B7	SO
C7972	199-F5-56	B293B8	SO
C7972	199-F5-56	B293C0	SO
C7972	199-F5-56	B293C1	SO
C7972	199-F5-56	B293C2	SO
C7972	199-F5-56	B293C3	SO
C7972	199-F5-56	B293C5	SO
C7972	199-F5-56	B293C6	SO
C7972	199-F5-56	B293C9	SO
C7972	199-F5-56	B293D0	SO
C7972	199-F5-56	B293D2	SO
C7972	199-F5-56	B293D9	SO
C7972	199-F5-56	B293F0	SO
C7972	199-F5-56	B293F2	SO
C7972	199-F5-56	B293H8	SO
C7972	199-F5-56	B293H9	SO
C7972	199-F5-56	B293P4	SO
C7972	199-F5-56	B29389-1	SO
C7972	199-F5-56	B29389-2	SO
C7972	199-F5-56	B29389-3	SO
C7972	199-F5-56	B29389-4	SO
C7972	199-F5-56	B29389-A1	SO
C7972	199-F5-56	B29389-A2	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7972	199-F5-56	B29389-B1	SO
C7972	199-F5-56	B29389-C1	SO
C7972	199-F5-56	B29393-1	SO
C7972	199-F5-56	B29393-2	SO
C7972	199-F5-56	B29393-3	SO
C7972	199-F5-56	B29393-4	SO
C7972	199-F5-56	B29393-A1	SO
C7972	199-F5-56	B29393-B1	SO
C7972	199-F5-56	B29393-B2	SO
C7972	199-F5-56	B29393-C1	SO
C7972	199-F5-56	B29399-1	SO
C7972	199-F5-56	B29399-2	SO
C7972	199-F5-56	B29399-3	SO
C7972	199-F5-56	B29399-4	SO
C7972	199-F5-56	B29399-A1	SO
C7972	199-F5-56	B29399-B1	SO
C7972	199-F5-56	B29399-C1	SO
C7972	199-F5-56	B29399-C2	SO
C7972	199-F5-56	B293B9-1	SO
C7972	199-F5-56	B293B9-2	SO
C7972	199-F5-56	B293B9-3	SO
C7972	199-F5-56	B293B9-4	SO
C7972	199-F5-56	B293B9-A1	SO
C7972	199-F5-56	B293B9-A2	SO
C7972	199-F5-56	B293B9-B1	SO
C7972	199-F5-56	B293B9-C1	SO
C7972	199-F5-56	B293C4-1	SO
C7972	199-F5-56	B293C4-2	SO
C7972	199-F5-56	B293C4-3	SO
C7972	199-F5-56	B293C4-4	SO

Table D-5. Groundwater and Soil Samples Collected during RI Borehole and Well Drilling

Well ID	Well Name	Sample Number	Media
C7972	199-F5-56	B293C4-A1	SO
C7972	199-F5-56	B293C4-B1	SO
C7972	199-F5-56	B293C4-B2	SO
C7972	199-F5-56	B293C4-C1	SO
C7972	199-F5-56	B293C8-1	SO
C7972	199-F5-56	B293C8-2	SO
C7972	199-F5-56	B293C8-3	SO
C7972	199-F5-56	B293C8-4	SO
C7972	199-F5-56	B293C8-A1	SO
C7972	199-F5-56	B293C8-B1	SO
C7972	199-F5-56	B293C8-C1	SO
C7972	199-F5-56	B293C8-C2	SO
C7972	199-F5-56	B293F1-1	SO
C7972	199-F5-56	B293F1-2	SO
C7972	199-F5-56	B293F1-3	SO
C7972	199-F5-56	B293F1-4	SO
C7972	199-F5-56	B293F1-A1	SO
C7972	199-F5-56	B293F1-B1	SO
C7972	199-F5-56	B293F1-B2	SO
C7972	199-F5-56	B293F1-C1	SO

D3.1.1 RI Soil Samples Collected During Drilling

Data for soil samples (listed in Table D-5) collected during drilling of RI/FS boreholes and wells were extracted from HEIS on August 11, 2011. Some data for batch leach testing to calculate distribution coefficient analysis were not loaded into HEIS because of format issues. These data are available in *Report for Batch Leach Analyses on Sediments at 100-FR-3 Operable Unit, Boreholes C7790, C7791, and C7792* (PNNL-20311).

The following types of data are not included in the soil analytical data provided in this appendix:

- Quality control samples (e.g., equipment blanks and field trip blanks)
- Parent sample IDs for batch leach testing and soil physical properties for which no analysis was performed and therefore no data were returned to HEIS

D3.1.2 RI Groundwater Samples Collected During Drilling

Data for groundwater samples collected during drilling of RI/FS boreholes and wells were extracted from HEIS on August 11, 2011, for the samples listed in Table D-5.

D3.1.3 Geophysical Logging

Geophysical logging was performed in all of the RI boreholes. The geophysical logging results are available in the borehole summary reports.

D3.2 Spatial and Temporal Uncertainty Groundwater Samples

Samples from groundwater monitoring wells were collected as part of the RI to support spatial and temporal uncertainty in groundwater concentrations. Three rounds of groundwater samples were collected from the following wells (Table D-6). Sample IDs associated with each well and sampling event are provided in Table D-7.

Table D-6. Wells for Spatial/ Temporal Analysis

Wells			
699-10-54A	699-43-89	699-70-68	199-F5-45
699-14-38	699-46-21B	699-71-30	199-F5-46
699-17-5	699-50-28B	699-72-92	199-F5-48
699-20-20	699-53-35	699-74-44	199-F5-6
699-20-E5A	699-54-45A	699-77-54	199-F6-1
699-26-15A	699-55-76	699-8-25	199-F7-1
699-29-4	699-55-89	699-89-35	199-F7-2
699-31-11	699-60-32	699-S3-25	199-F7-3
699-32-22A	699-61-66	199-F1-2	199-F8-2
699-34-88	699-62-43F	199-F5-1	199-F8-3
699-35-9	699-63-25A	199-F5-4	199-F8-4
699-38-15	699-65-50	199-F5-42	199-F8-7
699-41-23	699-65-72	199-F5-43A	699-77-36
699-42-12A	699-66-58	199-F5-44	

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
199-F1-2	5/5/2010	B25911
199-F1-2	5/5/2010	B25912
199-F1-2	5/5/2010	B25913
199-F1-2	5/5/2010	B25914
199-F1-2	5/5/2010	B25915
199-F1-2	5/5/2010	B25B04
199-F1-2	5/5/2010	B25B45
199-F1-2	5/5/2010	B25B46
199-F1-2	7/8/2010	B264C2
199-F1-2	7/8/2010	B264C3
199-F1-2	7/8/2010	B264C4
199-F1-2	7/8/2010	B264C5
199-F1-2	7/8/2010	B264C6
199-F1-2	7/8/2010	B26513
199-F1-2	7/8/2010	B26583
199-F1-2	7/8/2010	B26584
199-F1-2	9/26/2010	B27T04
199-F1-2	9/26/2010	B27T05
199-F1-2	9/26/2010	B27T07
199-F1-2	9/26/2010	B27T08
199-F1-2	9/26/2010	B28321
199-F1-2	9/26/2010	B28322
199-F1-2	9/26/2010	B284L2
199-F1-2	9/26/2010	B284L3
199-F1-2	9/26/2010	B285M4
199-F5-1	5/5/2010	B25916
199-F5-1	5/5/2010	B25917
199-F5-1	5/5/2010	B25918
199-F5-1	5/5/2010	B25919
199-F5-1	5/5/2010	B25920

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
199-F5-1	5/5/2010	B25B05
199-F5-1	5/5/2010	B25B47
199-F5-1	5/5/2010	B25B48
199-F5-1	7/13/2010	B264D0
199-F5-1	7/13/2010	B264D2
199-F5-1	7/13/2010	B264D3
199-F5-1	7/13/2010	B264D4
199-F5-1	7/13/2010	B26515
199-F5-1	7/13/2010	B26587
199-F5-1	7/13/2010	B26588
199-F5-1	7/13/2010	B264D5
199-F5-1	9/26/2010	B27T09
199-F5-1	9/26/2010	B27T10
199-F5-1	9/26/2010	B27T12
199-F5-1	9/26/2010	B27T13
199-F5-1	9/26/2010	B28323
199-F5-1	9/26/2010	B28324
199-F5-1	9/26/2010	B284L5
199-F5-1	9/26/2010	B284L6
199-F5-1	9/26/2010	B285M5
199-F5-4	5/5/2010	B25B07
199-F5-4	5/5/2010	B258M8
199-F5-4	5/5/2010	B258M9
199-F5-4	5/5/2010	B258N0
199-F5-4	5/5/2010	B258N1
199-F5-4	5/5/2010	B258N2
199-F5-4	5/5/2010	B258N3
199-F5-4	5/5/2010	B258N4
199-F5-4	5/5/2010	B258N5
199-F5-4	5/5/2010	B258N6

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
199-F5-4	5/5/2010	B25B06
199-F5-4	5/5/2010	B25B49
199-F5-4	5/5/2010	B25B50
199-F5-4	5/5/2010	B25B51
199-F5-4	5/5/2010	B25B52
199-F5-4	7/8/2010	B264F3
199-F5-4	7/8/2010	B264F4
199-F5-4	7/8/2010	B264F5
199-F5-4	7/8/2010	B264F6
199-F5-4	7/8/2010	B264F7
199-F5-4	7/8/2010	B26516
199-F5-4	7/8/2010	B26589
199-F5-4	7/8/2010	B26590
199-F5-4	7/8/2010	B26825
199-F5-4	7/8/2010	B26826
199-F5-4	7/8/2010	B26827
199-F5-4	9/26/2010	B27T14
199-F5-4	9/26/2010	B27T15
199-F5-4	9/26/2010	B27T17
199-F5-4	9/26/2010	B27T18
199-F5-4	9/26/2010	B28325
199-F5-4	9/26/2010	B28326
199-F5-4	9/26/2010	B284L8
199-F5-4	9/26/2010	B284L9
199-F5-4	9/26/2010	B285M6
199-F5-42	5/5/2010	B258N7
199-F5-42	5/5/2010	B258N8
199-F5-42	5/5/2010	B258N9
199-F5-42	5/5/2010	B258P0
199-F5-42	5/5/2010	B258P1

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
199-F5-42	5/5/2010	B25B08
199-F5-42	5/5/2010	B25B53
199-F5-42	5/5/2010	B25B54
199-F5-42	7/8/2010	B264H2
199-F5-42	7/8/2010	B264H3
199-F5-42	7/8/2010	B264H4
199-F5-42	7/8/2010	B264H5
199-F5-42	7/8/2010	B264H6
199-F5-42	7/8/2010	B26517
199-F5-42	7/8/2010	B26591
199-F5-42	7/8/2010	B26592
199-F5-42	11/11/2010	B27T19
199-F5-42	11/11/2010	B27T20
199-F5-42	11/11/2010	B27T22
199-F5-42	11/11/2010	B27T23
199-F5-42	11/11/2010	B28327
199-F5-42	11/11/2010	B28328
199-F5-42	11/11/2010	B284M1
199-F5-42	11/11/2010	B284M2
199-F5-42	11/11/2010	B285M7
199-F5-43A	5/5/2010	B258P2
199-F5-43A	5/5/2010	B258P3
199-F5-43A	5/5/2010	B258P4
199-F5-43A	5/5/2010	B258P5
199-F5-43A	5/5/2010	B258P6
199-F5-43A	5/5/2010	B25B09
199-F5-43A	5/5/2010	B25B55
199-F5-43A	5/5/2010	B25B56
199-F5-43A	7/8/2010	B264H7
199-F5-43A	7/8/2010	B264H8

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
199-F5-43A	7/8/2010	B264H9
199-F5-43A	7/8/2010	B264J0
199-F5-43A	7/8/2010	B264J1
199-F5-43A	7/8/2010	B26518
199-F5-43A	7/8/2010	B26593
199-F5-43A	7/8/2010	B26594
199-F5-43A	9/26/2010	B27T24
199-F5-43A	9/26/2010	B27T25
199-F5-43A	9/26/2010	B27T27
199-F5-43A	9/26/2010	B27T28
199-F5-43A	9/26/2010	B28329
199-F5-43A	9/26/2010	B28330
199-F5-43A	9/26/2010	B28367
199-F5-44	5/5/2010	B258P7
199-F5-44	5/5/2010	B258P8
199-F5-44	5/5/2010	B258P9
199-F5-44	5/5/2010	B258R0
199-F5-44	5/5/2010	B258R1
199-F5-44	5/5/2010	B25B10
199-F5-44	5/5/2010	B25B57
199-F5-44	5/5/2010	B25B58
199-F5-44	7/8/2010	B264J2
199-F5-44	7/8/2010	B264J3
199-F5-44	7/8/2010	B264J4
199-F5-44	7/8/2010	B264J5
199-F5-44	7/8/2010	B264J6
199-F5-44	7/8/2010	B26519
199-F5-44	7/8/2010	B26595
199-F5-44	7/8/2010	B26596
199-F5-44	11/11/2010	B27T29

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
199-F5-44	11/11/2010	B27T30
199-F5-44	11/11/2010	B27T32
199-F5-44	11/11/2010	B27T33
199-F5-44	11/11/2010	B28331
199-F5-44	11/11/2010	B28332
199-F5-44	11/11/2010	B28368
199-F5-45	5/5/2010	B258R2
199-F5-45	5/5/2010	B258R3
199-F5-45	5/5/2010	B258R4
199-F5-45	5/5/2010	B258R5
199-F5-45	5/5/2010	B258R6
199-F5-45	5/5/2010	B25B11
199-F5-45	5/5/2010	B25B59
199-F5-45	5/5/2010	B25B60
199-F5-45	7/8/2010	B264J7
199-F5-45	7/8/2010	B264J8
199-F5-45	7/8/2010	B264J9
199-F5-45	7/8/2010	B264K1
199-F5-45	7/8/2010	B26520
199-F5-45	7/8/2010	B26597
199-F5-45	7/8/2010	B26598
199-F5-45	7/8/2010	B264K0
199-F5-45	9/26/2010	B27T34
199-F5-45	9/26/2010	B27T35
199-F5-45	9/26/2010	B27T37
199-F5-45	9/26/2010	B27T38
199-F5-45	9/26/2010	B28333
199-F5-45	9/26/2010	B28334
199-F5-45	9/26/2010	B284M4
199-F5-45	9/26/2010	B284M5

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
199-F5-45	9/26/2010	B285M8
199-F5-46	5/5/2010	B258R7
199-F5-46	5/5/2010	B258R8
199-F5-46	5/5/2010	B258R9
199-F5-46	5/5/2010	B258T0
199-F5-46	5/5/2010	B258T1
199-F5-46	5/5/2010	B25B12
199-F5-46	5/5/2010	B25B61
199-F5-46	5/5/2010	B25B62
199-F5-46	7/8/2010	B264K2
199-F5-46	7/8/2010	B264K3
199-F5-46	7/8/2010	B264K4
199-F5-46	7/8/2010	B264K5
199-F5-46	7/8/2010	B264K6
199-F5-46	7/8/2010	B264K7
199-F5-46	7/8/2010	B264K8
199-F5-46	7/8/2010	B26521
199-F5-46	7/8/2010	B26532
199-F5-46	7/8/2010	B26599
199-F5-46	7/8/2010	B265B0
199-F5-46	7/8/2010	B265D1
199-F5-46	7/8/2010	B265D2
199-F5-46	7/8/2010	B26828
199-F5-46	11/11/2010	B27T39
199-F5-46	11/11/2010	B27T40
199-F5-46	11/11/2010	B27T42
199-F5-46	11/11/2010	B27T43
199-F5-46	11/11/2010	B28335
199-F5-46	11/11/2010	B28336
199-F5-46	11/11/2010	B28341

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
199-F5-46	11/11/2010	B28342
199-F5-46	11/11/2010	B28369
199-F5-46	11/11/2010	B284M8
199-F5-48	5/5/2010	B258T2
199-F5-48	5/5/2010	B258T3
199-F5-48	5/5/2010	B258T4
199-F5-48	5/5/2010	B258T5
199-F5-48	5/5/2010	B258T6
199-F5-48	5/5/2010	B25B13
199-F5-48	5/5/2010	B25B63
199-F5-48	5/5/2010	B25B64
199-F5-48	7/8/2010	B264K9
199-F5-48	7/8/2010	B264L0
199-F5-48	7/8/2010	B264L1
199-F5-48	7/8/2010	B264L2
199-F5-48	7/8/2010	B264L3
199-F5-48	7/8/2010	B26522
199-F5-48	7/8/2010	B265B1
199-F5-48	7/8/2010	B265B2
199-F5-48	9/26/2010	B27T44
199-F5-48	9/26/2010	B27T45
199-F5-48	9/26/2010	B27T46
199-F5-48	9/26/2010	B27T47
199-F5-48	9/26/2010	B27T48
199-F5-48	9/26/2010	B27T49
199-F5-48	9/26/2010	B27T50
199-F5-48	9/26/2010	B27T51
199-F5-48	9/26/2010	B28337
199-F5-48	9/26/2010	B28338
199-F5-48	9/26/2010	B28339

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
199-F5-48	9/26/2010	B28340
199-F5-48	9/26/2010	B284M9
199-F5-48	9/26/2010	B284N0
199-F5-48	9/26/2010	B284N1
199-F5-48	9/26/2010	B284N2
199-F5-48	9/26/2010	B285M9
199-F5-48	9/26/2010	B285N0
199-F5-6	5/5/2010	B258T7
199-F5-6	5/5/2010	B258T8
199-F5-6	5/5/2010	B258T9
199-F5-6	5/5/2010	B258V0
199-F5-6	5/5/2010	B258V1
199-F5-6	5/5/2010	B25B14
199-F5-6	5/5/2010	B25B65
199-F5-6	5/5/2010	B25B66
199-F5-6	7/13/2010	B264L4
199-F5-6	7/13/2010	B264L5
199-F5-6	7/13/2010	B264L6
199-F5-6	7/13/2010	B264L7
199-F5-6	7/13/2010	B264L8
199-F5-6	7/13/2010	B26523
199-F5-6	7/13/2010	B265B3
199-F5-6	7/13/2010	B265B4
199-F5-6	11/10/2010	B27T53
199-F5-6	11/10/2010	B27T54
199-F5-6	11/10/2010	B27T56
199-F5-6	11/10/2010	B27T57
199-F5-6	11/10/2010	B28378
199-F5-6	11/10/2010	B28379
199-F5-6	11/10/2010	B284N4

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
199-F5-6	11/10/2010	B284N5
199-F5-6	11/10/2010	B285N1
199-F6-1	5/17/2010	B258V2
199-F6-1	5/17/2010	B258V3
199-F6-1	5/17/2010	B258V4
199-F6-1	5/17/2010	B258V5
199-F6-1	5/17/2010	B258V6
199-F6-1	5/17/2010	B25B15
199-F6-1	5/17/2010	B25B67
199-F6-1	5/17/2010	B25B68
199-F6-1	7/8/2010	B264L9
199-F6-1	7/8/2010	B264M0
199-F6-1	7/8/2010	B264M1
199-F6-1	7/8/2010	B264M2
199-F6-1	7/8/2010	B264M3
199-F6-1	7/8/2010	B26524
199-F6-1	7/8/2010	B265B5
199-F6-1	7/8/2010	B265B6
199-F6-1	9/26/2010	B27T58
199-F6-1	9/26/2010	B27T59
199-F6-1	9/26/2010	B27T61
199-F6-1	9/26/2010	B27T62
199-F6-1	9/26/2010	B28343
199-F6-1	9/26/2010	B28344
199-F6-1	9/26/2010	B284N7
199-F6-1	9/26/2010	B284N8
199-F6-1	9/26/2010	B285N2
199-F7-1	5/5/2010	B258V7
199-F7-1	5/5/2010	B258V8
199-F7-1	5/5/2010	B258V9

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
199-F7-1	5/5/2010	B258W0
199-F7-1	5/5/2010	B258W1
199-F7-1	5/5/2010	B25B16
199-F7-1	5/5/2010	B25B69
199-F7-1	5/5/2010	B25B70
199-F7-1	7/8/2010	B264M4
199-F7-1	7/8/2010	B264M5
199-F7-1	7/8/2010	B264M6
199-F7-1	7/8/2010	B264M7
199-F7-1	7/8/2010	B264M8
199-F7-1	7/8/2010	B26525
199-F7-1	7/8/2010	B265B7
199-F7-1	7/8/2010	B265B8
199-F7-1	9/26/2010	B27T63
199-F7-1	9/26/2010	B27T64
199-F7-1	9/26/2010	B27T66
199-F7-1	9/26/2010	B27T67
199-F7-1	9/26/2010	B28345
199-F7-1	9/26/2010	B28346
199-F7-1	9/26/2010	B284P1
199-F7-2	5/5/2010	B258W2
199-F7-2	5/5/2010	B258W3
199-F7-2	5/5/2010	B258W4
199-F7-2	5/5/2010	B258W5
199-F7-2	5/5/2010	B258W6
199-F7-2	5/5/2010	B25B17
199-F7-2	5/5/2010	B25B71
199-F7-2	5/5/2010	B25B72
199-F7-2	7/8/2010	B264M9
199-F7-2	7/8/2010	B264N0

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
199-F7-2	7/8/2010	B264N1
199-F7-2	7/8/2010	B264N2
199-F7-2	7/8/2010	B264N3
199-F7-2	7/8/2010	B26526
199-F7-2	7/8/2010	B265B9
199-F7-2	7/8/2010	B265C0
199-F7-2	11/10/2010	B27T68
199-F7-2	11/10/2010	B27T69
199-F7-2	11/10/2010	B27T71
199-F7-2	11/10/2010	B27T72
199-F7-2	11/10/2010	B28347
199-F7-2	11/10/2010	B28348
199-F7-2	11/10/2010	B28370
199-F7-3	5/5/2010	B258W7
199-F7-3	5/5/2010	B258W8
199-F7-3	5/5/2010	B258W9
199-F7-3	5/5/2010	B258X1
199-F7-3	5/5/2010	B258X5
199-F7-3	5/5/2010	B25B18
199-F7-3	5/5/2010	B25B73
199-F7-3	5/5/2010	B25B74
199-F7-3	7/8/2010	B264N4
199-F7-3	7/8/2010	B264N5
199-F7-3	7/8/2010	B264N6
199-F7-3	7/8/2010	B264N7
199-F7-3	7/8/2010	B264N8
199-F7-3	7/8/2010	B26527
199-F7-3	7/8/2010	B265C1
199-F7-3	7/8/2010	B265C2
199-F7-3	9/26/2010	B284P3

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
199-F7-3	9/26/2010	B285T2
199-F7-3	9/26/2010	B285T3
199-F7-3	9/26/2010	B285T4
199-F7-3	9/26/2010	B285T5
199-F7-3	9/26/2010	B285T6
199-F7-3	9/26/2010	B285T7
199-F7-3	9/26/2010	B285T8
199-F8-2	5/6/2010	B258X6
199-F8-2	5/6/2010	B258X7
199-F8-2	5/6/2010	B258X8
199-F8-2	5/6/2010	B258X9
199-F8-2	5/6/2010	B258Y0
199-F8-2	5/6/2010	B25B20
199-F8-2	5/6/2010	B25B77
199-F8-2	5/6/2010	B25B78
199-F8-2	7/13/2010	B26487
199-F8-2	7/13/2010	B26488
199-F8-2	7/13/2010	B26489
199-F8-2	7/13/2010	B26490
199-F8-2	7/13/2010	B26491
199-F8-2	7/13/2010	B26528
199-F8-2	7/13/2010	B265C3
199-F8-2	7/13/2010	B265C4
199-F8-2	11/14/2010	B27T73
199-F8-2	11/14/2010	B27T74
199-F8-2	11/14/2010	B27T76
199-F8-2	11/14/2010	B27T77
199-F8-2	11/14/2010	B28349
199-F8-2	11/14/2010	B28350
199-F8-2	11/14/2010	B284P4

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
199-F8-2	11/14/2010	B284P5
199-F8-2	11/14/2010	B285N3
199-F8-3	5/5/2010	B258Y1
199-F8-3	5/5/2010	B258Y2
199-F8-3	5/5/2010	B258Y3
199-F8-3	5/5/2010	B258Y4
199-F8-3	5/5/2010	B258Y5
199-F8-3	5/5/2010	B25B21
199-F8-3	5/5/2010	B25B79
199-F8-3	5/5/2010	B25B80
199-F8-3	7/13/2010	B26492
199-F8-3	7/13/2010	B26493
199-F8-3	7/13/2010	B26494
199-F8-3	7/13/2010	B26495
199-F8-3	7/13/2010	B26496
199-F8-3	7/13/2010	B26529
199-F8-3	7/13/2010	B265C5
199-F8-3	7/13/2010	B265C6
199-F8-3	9/26/2010	B28351
199-F8-3	9/26/2010	B28352
199-F8-3	9/26/2010	B27T78
199-F8-3	9/26/2010	B27T79
199-F8-3	9/26/2010	B27T81
199-F8-3	9/26/2010	B27T82
199-F8-3	9/26/2010	B28371
199-F8-4	5/5/2010	B258Y6
199-F8-4	5/5/2010	B258Y7
199-F8-4	5/5/2010	B258Y8
199-F8-4	5/5/2010	B258Y9
199-F8-4	5/5/2010	B25900

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
199-F8-4	5/5/2010	B25B22
199-F8-4	5/5/2010	B25B81
199-F8-4	5/5/2010	B25B82
199-F8-4	7/8/2010	B26497
199-F8-4	7/8/2010	B26498
199-F8-4	7/8/2010	B26499
199-F8-4	7/8/2010	B264B0
199-F8-4	7/8/2010	B264B1
199-F8-4	7/8/2010	B26530
199-F8-4	7/8/2010	B265C7
199-F8-4	7/8/2010	B265C8
199-F8-4	9/26/2010	B27T83
199-F8-4	9/26/2010	B27T84
199-F8-4	9/26/2010	B27T86
199-F8-4	9/26/2010	B27T87
199-F8-4	9/26/2010	B28353
199-F8-4	9/26/2010	B28354
199-F8-4	9/26/2010	B28372
199-F8-7	5/5/2010	B254J7
199-F8-7	5/5/2010	B254J8
199-F8-7	5/5/2010	B254V2
199-F8-7	5/5/2010	B254V3
199-F8-7	5/5/2010	B25901
199-F8-7	5/5/2010	B25902
199-F8-7	5/5/2010	B25903
199-F8-7	5/5/2010	B25904
199-F8-7	5/5/2010	B25905
199-F8-7	5/5/2010	B25B23
199-F8-7	7/13/2010	B264B2
199-F8-7	7/13/2010	B264B3

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
199-F8-7	7/13/2010	B264B4
199-F8-7	7/13/2010	B264B5
199-F8-7	7/13/2010	B264B6
199-F8-7	7/13/2010	B26531
199-F8-7	7/13/2010	B265C9
199-F8-7	7/13/2010	B265D0
199-F8-7	9/26/2010	B27T88
199-F8-7	9/26/2010	B27T89
199-F8-7	9/26/2010	B27T91
199-F8-7	9/26/2010	B27T92
199-F8-7	9/26/2010	B28355
199-F8-7	9/26/2010	B28356
199-F8-7	9/26/2010	B284P7
199-F8-7	9/26/2010	B284P8
199-F8-7	9/26/2010	B285N4
699-10-54A	4/12/2010	B24LH8
699-10-54A	4/12/2010	B24LH9
699-10-54A	4/12/2010	B24LJ0
699-10-54A	4/12/2010	B24LJ1
699-10-54A	4/12/2010	B24M48
699-10-54A	4/12/2010	B24N08
699-10-54A	4/12/2010	B24N09
699-10-54A	4/12/2010	B24N11
699-10-54A	4/12/2010	B24N12
699-10-54A	4/12/2010	B24NN6
699-10-54A	4/12/2010	B24P45
699-10-54A	4/12/2010	B24P46
699-10-54A	4/12/2010	B25025
699-10-54A	9/1/2010	B26533
699-10-54A	9/1/2010	B26534

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-10-54A	9/1/2010	B26535
699-10-54A	9/1/2010	B26536
699-10-54A	9/1/2010	B26537
699-10-54A	9/1/2010	B26538
699-10-54A	9/1/2010	B26655
699-10-54A	9/1/2010	B26692
699-10-54A	9/1/2010	B26693
699-10-54A	12/7/2010	B27WL4
699-10-54A	12/7/2010	B27WL5
699-10-54A	12/7/2010	B27WL6
699-10-54A	12/7/2010	B27WL7
699-10-54A	12/7/2010	B27WL8
699-10-54A	12/7/2010	B27WL9
699-10-54A	12/7/2010	B28JT8
699-10-54A	12/7/2010	B28JX6
699-10-54A	12/7/2010	B28JX9
699-14-38	4/26/2010	B24LJ2
699-14-38	4/26/2010	B24LJ3
699-14-38	4/26/2010	B24LJ4
699-14-38	4/26/2010	B24LJ5
699-14-38	4/26/2010	B24LJ6
699-14-38	4/26/2010	B24M49
699-14-38	4/26/2010	B24N14
699-14-38	4/26/2010	B24P47
699-14-38	4/26/2010	B24P48
699-14-38	8/26/2010	B26539
699-14-38	8/26/2010	B26540
699-14-38	8/26/2010	B26541
699-14-38	8/26/2010	B26542
699-14-38	8/26/2010	B26543

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-14-38	8/26/2010	B26544
699-14-38	8/26/2010	B26656
699-14-38	8/26/2010	B26694
699-14-38	8/26/2010	B26695
699-14-38	12/17/2010	B27WM0
699-14-38	12/17/2010	B27WM1
699-14-38	12/17/2010	B27WM2
699-14-38	12/17/2010	B27WM3
699-14-38	12/17/2010	B27WM4
699-14-38	12/17/2010	B27WM5
699-14-38	12/17/2010	B28JT9
699-14-38	12/17/2010	B28JY0
699-14-38	12/17/2010	B28JY1
699-17-5	5/20/2010	B24LJ7
699-17-5	5/20/2010	B24LJ8
699-17-5	5/20/2010	B24LJ9
699-17-5	5/20/2010	B24LK0
699-17-5	5/20/2010	B24M50
699-17-5	5/20/2010	B24N16
699-17-5	5/20/2010	B24N17
699-17-5	5/20/2010	B24NN8
699-17-5	5/20/2010	B24P49
699-17-5	5/20/2010	B24P50
699-17-5	5/20/2010	B25026
699-17-5	7/16/2010	B26545
699-17-5	7/16/2010	B26546
699-17-5	7/16/2010	B26547
699-17-5	7/16/2010	B26549
699-17-5	7/16/2010	B26551
699-17-5	7/16/2010	B26555

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-17-5	7/16/2010	B26657
699-17-5	7/16/2010	B26696
699-17-5	7/16/2010	B26697
699-17-5	12/7/2010	B27WM6
699-17-5	12/7/2010	B27WM7
699-17-5	12/7/2010	B27WM8
699-17-5	12/7/2010	B27WM9
699-17-5	12/7/2010	B27WN0
699-17-5	12/7/2010	B27WN1
699-17-5	12/7/2010	B28JV0
699-17-5	12/7/2010	B28JY2
699-17-5	12/7/2010	B28JY3
699-20-20	4/12/2010	B24LK1
699-20-20	4/12/2010	B24LK2
699-20-20	4/12/2010	B24LK3
699-20-20	4/12/2010	B24LK4
699-20-20	4/12/2010	B24M51
699-20-20	4/12/2010	B24N19
699-20-20	4/12/2010	B24N20
699-20-20	4/12/2010	B24NN7
699-20-20	4/12/2010	B24P51
699-20-20	4/12/2010	B24P52
699-20-20	4/12/2010	B25031
699-20-20	7/14/2010	B26556
699-20-20	7/14/2010	B26557
699-20-20	7/14/2010	B26558
699-20-20	7/14/2010	B26559
699-20-20	7/14/2010	B26560
699-20-20	7/14/2010	B26561
699-20-20	7/14/2010	B26659

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-20-20	7/14/2010	B266B0
699-20-20	7/14/2010	B266B1
699-20-20	12/5/2010	B27WN2
699-20-20	12/5/2010	B27WN3
699-20-20	12/5/2010	B27WN4
699-20-20	12/5/2010	B27WN5
699-20-20	12/5/2010	B27WN6
699-20-20	12/5/2010	B27WN7
699-20-20	12/5/2010	B28JV1
699-20-20	12/5/2010	B28JY4
699-20-20	12/5/2010	B28JY5
699-20-E5A	4/27/2010	B24N22
699-20-E5A	4/27/2010	B24NN9
699-20-E5A	4/27/2010	B25018
699-20-E5A	4/27/2010	B25019
699-20-E5A	4/27/2010	B25020
699-20-E5A	4/27/2010	B25021
699-20-E5A	4/27/2010	B25022
699-20-E5A	4/27/2010	B25027
699-20-E5A	4/27/2010	B25028
699-20-E5A	4/27/2010	B25029
699-20-E5A	4/27/2010	B25030
699-20-E5A	6/10/2010	B25FJ7
699-20-E5A	6/10/2010	B25FJ8
699-20-E5A	6/10/2010	B25M49
699-20-E5A	6/10/2010	B25M50
699-20-E5A	6/10/2010	B25M51
699-20-E5A	6/10/2010	B25M52
699-20-E5A	6/10/2010	B25M53
699-20-E5A	6/10/2010	B25M97

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-20-E5A	6/10/2010	B25NF5
699-20-E5A	6/10/2010	B25NF6
699-20-E5A	6/10/2010	B25NF7
699-20-E5A	6/10/2010	B25NF8
699-20-E5A	9/1/2010	B26M14
699-20-E5A	9/1/2010	B26M15
699-20-E5A	9/1/2010	B26M16
699-20-E5A	9/1/2010	B26M17
699-20-E5A	9/1/2010	B26M18
699-20-E5A	9/1/2010	B26MF8
699-20-E5A	9/1/2010	B26MF9
699-20-E5A	9/1/2010	B26NF1
699-20-E5A	9/1/2010	B26NF5
699-20-E5A	9/1/2010	B26NF6
699-26-15A	4/12/2010	B24LK5
699-26-15A	4/12/2010	B24LK6
699-26-15A	4/12/2010	B24LK7
699-26-15A	4/12/2010	B24LK8
699-26-15A	4/12/2010	B24M52
699-26-15A	4/12/2010	B24N24
699-26-15A	4/12/2010	B24N25
699-26-15A	4/12/2010	B24NP0
699-26-15A	4/12/2010	B24P53
699-26-15A	4/12/2010	B24P54
699-26-15A	4/12/2010	B25032
699-26-15A	8/29/2010	B26562
699-26-15A	8/29/2010	B26563
699-26-15A	8/29/2010	B26564
699-26-15A	8/29/2010	B26565
699-26-15A	8/29/2010	B26566

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-26-15A	8/29/2010	B26567
699-26-15A	8/29/2010	B26660
699-26-15A	8/29/2010	B266B2
699-26-15A	8/29/2010	B266B3
699-26-15A	12/5/2010	B27WP3
699-26-15A	12/5/2010	B27WP4
699-26-15A	12/5/2010	B27WP5
699-26-15A	12/5/2010	B27WP6
699-26-15A	12/5/2010	B27WP7
699-26-15A	12/5/2010	B27WP8
699-26-15A	12/5/2010	B28JV2
699-26-15A	12/5/2010	B28JY8
699-26-15A	12/5/2010	B28JY9
699-29-4	4/12/2010	B24LK9
699-29-4	4/12/2010	B24LL0
699-29-4	4/12/2010	B24LL1
699-29-4	4/12/2010	B24LL2
699-29-4	4/12/2010	B24M53
699-29-4	4/12/2010	B24N27
699-29-4	4/12/2010	B24N28
699-29-4	4/12/2010	B24NP1
699-29-4	4/12/2010	B24P55
699-29-4	4/12/2010	B24P56
699-29-4	4/12/2010	B25033
699-29-4	7/16/2010	B26570
699-29-4	7/16/2010	B26568
699-29-4	7/16/2010	B26569
699-29-4	7/16/2010	B26571
699-29-4	7/16/2010	B26572
699-29-4	7/16/2010	B26573

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-29-4	7/16/2010	B26661
699-29-4	7/16/2010	B266B4
699-29-4	7/16/2010	B266B5
699-29-4	12/5/2010	B27WP9
699-29-4	12/5/2010	B27WR0
699-29-4	12/5/2010	B27WR1
699-29-4	12/5/2010	B27WR2
699-29-4	12/5/2010	B27WR3
699-29-4	12/5/2010	B27WR4
699-29-4	12/5/2010	B28JV3
699-29-4	12/5/2010	B28K00
699-29-4	12/5/2010	B28K01
699-31-11	4/12/2010	B24LL3
699-31-11	4/12/2010	B24LL4
699-31-11	4/12/2010	B24LL5
699-31-11	4/12/2010	B24LL6
699-31-11	4/12/2010	B24M54
699-31-11	4/12/2010	B24N30
699-31-11	4/12/2010	B24N31
699-31-11	4/12/2010	B24NP2
699-31-11	4/12/2010	B24P57
699-31-11	4/12/2010	B24P58
699-31-11	4/12/2010	B25034
699-31-11	7/14/2010	B26574
699-31-11	7/14/2010	B26575
699-31-11	7/14/2010	B26576
699-31-11	7/14/2010	B26577
699-31-11	7/14/2010	B26578
699-31-11	7/14/2010	B26579
699-31-11	7/14/2010	B26662

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-31-11	7/14/2010	B266B6
699-31-11	7/14/2010	B266B7
699-31-11	12/5/2010	B27WR5
699-31-11	12/5/2010	B27WR6
699-31-11	12/5/2010	B27WR7
699-31-11	12/5/2010	B27WR9
699-31-11	12/5/2010	B27WT1
699-31-11	12/5/2010	B27WT5
699-31-11	12/5/2010	B28JV4
699-31-11	12/5/2010	B28K02
699-31-11	12/5/2010	B28K03
699-32-22A	4/11/2010	B24LL7
699-32-22A	4/11/2010	B24LL8
699-32-22A	4/11/2010	B24LL9
699-32-22A	4/11/2010	B24LM0
699-32-22A	4/11/2010	B24M55
699-32-22A	4/11/2010	B24N34
699-32-22A	4/11/2010	B24NP3
699-32-22A	4/11/2010	B24P59
699-32-22A	4/11/2010	B24P60
699-32-22A	4/11/2010	B24TB7
699-32-22A	4/11/2010	B25035
699-32-22A	7/14/2010	B26580
699-32-22A	7/14/2010	B26581
699-32-22A	7/14/2010	B265J8
699-32-22A	7/14/2010	B265J9
699-32-22A	7/14/2010	B265K0
699-32-22A	7/14/2010	B26663
699-32-22A	7/14/2010	B266B8
699-32-22A	7/14/2010	B266B9

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-32-22A	7/14/2010	B26858
699-32-22A	12/5/2010	B27WT6
699-32-22A	12/5/2010	B27WT7
699-32-22A	12/5/2010	B27WT8
699-32-22A	12/5/2010	B27WT9
699-32-22A	12/5/2010	B27WV0
699-32-22A	12/5/2010	B27WV1
699-32-22A	12/5/2010	B27WV2
699-32-22A	12/5/2010	B27WV3
699-32-22A	12/5/2010	B27WV4
699-32-22A	12/5/2010	B27WV5
699-32-22A	12/5/2010	B27WV6
699-32-22A	12/5/2010	B284F5
699-32-22A	12/5/2010	B284F6
699-32-22A	12/5/2010	B284F7
699-32-22A	12/5/2010	B284F8
699-32-22A	12/5/2010	B284F9
699-32-22A	12/5/2010	B284H0
699-32-22A	12/5/2010	B28627
699-32-22A	12/5/2010	B28628
699-32-22A	12/5/2010	B28JV6
699-32-22A	12/5/2010	B28JV7
699-32-22A	12/5/2010	B28K06
699-32-22A	12/5/2010	B28K07
699-32-22A	12/5/2010	B28K08
699-32-22A	12/5/2010	B28K09
699-34-88	4/11/2010	B24LM1
699-34-88	4/11/2010	B24LM2
699-34-88	4/11/2010	B24LM3
699-34-88	4/11/2010	B24LM5

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-34-88	4/11/2010	B24LM9
699-34-88	4/11/2010	B24M56
699-34-88	4/11/2010	B24P61
699-34-88	4/11/2010	B24P62
699-34-88	4/11/2010	B25037
699-34-88	7/26/2010	B265K1
699-34-88	7/26/2010	B265K2
699-34-88	7/26/2010	B265K3
699-34-88	7/26/2010	B265K4
699-34-88	7/26/2010	B265K5
699-34-88	7/26/2010	B265K6
699-34-88	7/26/2010	B26664
699-34-88	7/26/2010	B266C0
699-34-88	7/26/2010	B266C1
699-34-88	12/5/2010	B27WV7
699-34-88	12/5/2010	B27WV8
699-34-88	12/5/2010	B27WV9
699-34-88	12/5/2010	B27WW0
699-34-88	12/5/2010	B27WW1
699-34-88	12/5/2010	B27WW2
699-34-88	12/5/2010	B28K10
699-34-88	12/5/2010	B28K11
699-34-88	12/5/2010	B28K66
699-35-9	4/11/2010	B24LN0
699-35-9	4/11/2010	B24LN1
699-35-9	4/11/2010	B24LN2
699-35-9	4/11/2010	B24LN3
699-35-9	4/11/2010	B24M58
699-35-9	4/11/2010	B24N36
699-35-9	4/11/2010	B24N37

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-35-9	4/11/2010	B24NP4
699-35-9	4/11/2010	B24P65
699-35-9	4/11/2010	B24P66
699-35-9	4/11/2010	B25039
699-35-9	7/16/2010	B265K7
699-35-9	7/16/2010	B265K8
699-35-9	7/16/2010	B265K9
699-35-9	7/16/2010	B265L0
699-35-9	7/16/2010	B265L1
699-35-9	7/16/2010	B265L2
699-35-9	7/16/2010	B26665
699-35-9	7/16/2010	B266C2
699-35-9	7/16/2010	B266C3
699-35-9	12/5/2010	B27WW3
699-35-9	12/5/2010	B27WW4
699-35-9	12/5/2010	B27WW5
699-35-9	12/5/2010	B27WW7
699-35-9	12/5/2010	B27WW9
699-35-9	12/5/2010	B27WX3
699-35-9	12/5/2010	B28JV8
699-35-9	12/5/2010	B28K12
699-35-9	12/5/2010	B28K13
699-38-15	4/11/2010	B24LN4
699-38-15	4/11/2010	B24LN5
699-38-15	4/11/2010	B24LN6
699-38-15	4/11/2010	B24LN7
699-38-15	4/11/2010	B24N42
699-38-15	4/11/2010	B24N43
699-38-15	4/11/2010	B24NV0
699-38-15	4/11/2010	B24P67

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Well Name	Sample Date	Sample Number
699-38-15	4/11/2010	B24P68
699-38-15	4/11/2010	B25040
699-38-15	4/11/2010	B25041
699-38-15	7/14/2010	B265L3
699-38-15	7/14/2010	B265L4
699-38-15	7/14/2010	B265L5
699-38-15	7/14/2010	B265L6
699-38-15	7/14/2010	B265L7
699-38-15	7/14/2010	B265L8
699-38-15	7/14/2010	B26666
699-38-15	7/14/2010	B266C4
699-38-15	7/14/2010	B266C5
699-38-15	12/5/2010	B27WX4
699-38-15	12/5/2010	B27WX5
699-38-15	12/5/2010	B27WX6
699-38-15	12/5/2010	B27WX7
699-38-15	12/5/2010	B27WX8
699-38-15	12/5/2010	B27WX9
699-38-15	12/5/2010	B28JV9
699-38-15	12/5/2010	B28K16
699-38-15	12/5/2010	B28K17
699-41-23	4/9/2010	B24LN8
699-41-23	4/9/2010	B24LN9
699-41-23	4/9/2010	B24LP0
699-41-23	4/9/2010	B24LP1
699-41-23	4/9/2010	B24N45
699-41-23	4/9/2010	B24N46
699-41-23	4/9/2010	B24NV1
699-41-23	4/9/2010	B24P69
699-41-23	4/9/2010	B24P70

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Well Name	Sample Date	Sample Number
699-41-23	4/9/2010	B25042
699-41-23	4/9/2010	B25043
699-41-23	7/15/2010	B265L9
699-41-23	7/15/2010	B265M0
699-41-23	7/15/2010	B265M1
699-41-23	7/15/2010	B265M2
699-41-23	7/15/2010	B265M3
699-41-23	7/15/2010	B265M4
699-41-23	7/15/2010	B26667
699-41-23	7/15/2010	B266C6
699-41-23	7/15/2010	B266C7
699-41-23	12/7/2010	B27WY0
699-41-23	12/7/2010	B27WY1
699-41-23	12/7/2010	B27WY2
699-41-23	12/7/2010	B27WY4
699-41-23	12/7/2010	B27WY6
699-41-23	12/7/2010	B27X00
699-41-23	12/7/2010	B28JW0
699-41-23	12/7/2010	B28K18
699-41-23	12/7/2010	B28K19
699-42-12A	4/26/2010	B24LP2
699-42-12A	4/26/2010	B24LP3
699-42-12A	4/26/2010	B24LP4
699-42-12A	4/26/2010	B24LP5
699-42-12A	4/26/2010	B24N48
699-42-12A	4/26/2010	B24N49
699-42-12A	4/26/2010	B24NV2
699-42-12A	4/26/2010	B24P71
699-42-12A	4/26/2010	B24P72
699-42-12A	4/26/2010	B25044

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-42-12A	4/26/2010	B25045
699-42-12A	7/14/2010	B265M5
699-42-12A	7/14/2010	B265M6
699-42-12A	7/14/2010	B265M7
699-42-12A	7/14/2010	B265M8
699-42-12A	7/14/2010	B265M9
699-42-12A	7/14/2010	B265N0
699-42-12A	7/14/2010	B26668
699-42-12A	7/14/2010	B266C8
699-42-12A	7/14/2010	B266C9
699-42-12A	11/14/2010	B27X01
699-42-12A	11/14/2010	B27X02
699-42-12A	11/14/2010	B27X03
699-42-12A	11/14/2010	B27X04
699-42-12A	11/14/2010	B27X05
699-42-12A	11/14/2010	B27X06
699-42-12A	11/14/2010	B28JW2
699-42-12A	11/14/2010	B28K22
699-42-12A	11/14/2010	B28K23
699-43-89	4/9/2010	B24LP6
699-43-89	4/9/2010	B24LP7
699-43-89	4/9/2010	B24LP8
699-43-89	4/9/2010	B24LP9
699-43-89	4/9/2010	B24LR0
699-43-89	4/9/2010	B24LR1
699-43-89	4/9/2010	B24LR2
699-43-89	4/9/2010	B24LR3
699-43-89	4/9/2010	B24LR4
699-43-89	4/9/2010	B24M59
699-43-89	4/9/2010	B24M60

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-43-89	4/9/2010	B24P73
699-43-89	4/9/2010	B24P74
699-43-89	4/9/2010	B24P75
699-43-89	4/9/2010	B24P76
699-43-89	4/9/2010	B25046
699-43-89	4/9/2010	B25047
699-43-89	7/16/2010	B265N1
699-43-89	7/16/2010	B265N2
699-43-89	7/16/2010	B265N3
699-43-89	7/16/2010	B265N4
699-43-89	7/16/2010	B265N5
699-43-89	7/16/2010	B265N6
699-43-89	7/16/2010	B26669
699-43-89	7/16/2010	B266D0
699-43-89	7/16/2010	B266D1
699-43-89	12/1/2010	B27PV4
699-43-89	12/1/2010	B27PV5
699-43-89	12/1/2010	B27PV6
699-43-89	12/1/2010	B27PV7
699-43-89	12/1/2010	B27PV8
699-43-89	12/1/2010	B27PV9
699-43-89	12/1/2010	B27RW9
699-43-89	12/1/2010	B27RX0
699-43-89	12/1/2010	B27X07
699-43-89	12/1/2010	B27X08
699-43-89	12/1/2010	B27X09
699-43-89	12/1/2010	B27X10
699-43-89	12/1/2010	B27X11
699-43-89	12/1/2010	B27X12
699-43-89	12/1/2010	B27X13

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-43-89	12/1/2010	B27X14
699-43-89	12/1/2010	B27X15
699-43-89	12/1/2010	B27X16
699-43-89	12/1/2010	B27X17
699-43-89	12/1/2010	B28K24
699-43-89	12/1/2010	B28K25
699-43-89	12/1/2010	B28K26
699-43-89	12/1/2010	B28K27
699-46-21B	4/9/2010	B24LR5
699-46-21B	4/9/2010	B24LR6
699-46-21B	4/9/2010	B24LR7
699-46-21B	4/9/2010	B24LR8
699-46-21B	4/9/2010	B24N51
699-46-21B	4/9/2010	B24N52
699-46-21B	4/9/2010	B24NV3
699-46-21B	4/9/2010	B24P77
699-46-21B	4/9/2010	B24P78
699-46-21B	4/9/2010	B25048
699-46-21B	4/9/2010	B25049
699-46-21B	7/15/2010	B265N7
699-46-21B	7/15/2010	B265N8
699-46-21B	7/15/2010	B265N9
699-46-21B	7/15/2010	B265P0
699-46-21B	7/15/2010	B265P1
699-46-21B	7/15/2010	B265P2
699-46-21B	7/15/2010	B26670
699-46-21B	7/15/2010	B266D2
699-46-21B	7/15/2010	B266D3
699-46-21B	11/29/2010	B27X18
699-46-21B	11/29/2010	B27X19

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-46-21B	11/29/2010	B27X20
699-46-21B	11/29/2010	B27X21
699-46-21B	11/29/2010	B27X22
699-46-21B	11/29/2010	B27X23
699-46-21B	11/29/2010	B28JW3
699-46-21B	11/29/2010	B28K28
699-46-21B	11/29/2010	B28K29
699-50-28B	4/26/2010	B24LR9
699-50-28B	4/26/2010	B24LT0
699-50-28B	4/26/2010	B24LT1
699-50-28B	4/26/2010	B24LT2
699-50-28B	4/26/2010	B24N63
699-50-28B	4/26/2010	B24N64
699-50-28B	4/26/2010	B24NV4
699-50-28B	4/26/2010	B24P79
699-50-28B	4/26/2010	B24P80
699-50-28B	4/26/2010	B25050
699-50-28B	4/26/2010	B25051
699-50-28B	7/14/2010	B265P3
699-50-28B	7/14/2010	B265P4
699-50-28B	7/14/2010	B265P5
699-50-28B	7/14/2010	B265P6
699-50-28B	7/14/2010	B265P7
699-50-28B	7/14/2010	B265P8
699-50-28B	7/14/2010	B26671
699-50-28B	7/14/2010	B266D4
699-50-28B	7/14/2010	B266D5
699-50-28B	11/29/2010	B27X24
699-50-28B	11/29/2010	B27X25
699-50-28B	11/29/2010	B27X26

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-50-28B	11/29/2010	B27X27
699-50-28B	11/29/2010	B27X28
699-50-28B	11/29/2010	B27X29
699-50-28B	11/29/2010	B28JW4
699-50-28B	11/29/2010	B28K30
699-50-28B	11/29/2010	B28K31
699-53-35	4/27/2010	B24LT3
699-53-35	4/27/2010	B24LT4
699-53-35	4/27/2010	B24LT5
699-53-35	4/27/2010	B24LT6
699-53-35	4/27/2010	B24LT7
699-53-35	4/27/2010	B24M61
699-53-35	4/27/2010	B24P81
699-53-35	4/27/2010	B24P82
699-53-35	4/27/2010	B25052
699-53-35	7/14/2010	B265P9
699-53-35	7/14/2010	B265R0
699-53-35	7/14/2010	B265R1
699-53-35	7/14/2010	B265R2
699-53-35	7/14/2010	B265R3
699-53-35	7/14/2010	B265R4
699-53-35	7/14/2010	B26672
699-53-35	7/14/2010	B266D6
699-53-35	7/14/2010	B266D7
699-53-35	11/29/2010	B27X30
699-53-35	11/29/2010	B27X31
699-53-35	11/29/2010	B27X32
699-53-35	11/29/2010	B27X33
699-53-35	11/29/2010	B27X34
699-53-35	11/29/2010	B27X35

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-53-35	11/29/2010	B28JW5
699-53-35	11/29/2010	B28K32
699-53-35	11/29/2010	B28K33
699-54-45A	4/28/2010	B25053
699-54-45A	4/29/2010	B24LT8
699-54-45A	4/29/2010	B24LT9
699-54-45A	4/29/2010	B24LV0
699-54-45A	4/29/2010	B24LV1
699-54-45A	4/29/2010	B24LV2
699-54-45A	4/29/2010	B24M77
699-54-45A	4/29/2010	B24P83
699-54-45A	4/29/2010	B24P84
699-54-45A	7/27/2010	B265R5
699-54-45A	7/27/2010	B265R6
699-54-45A	7/27/2010	B265R7
699-54-45A	7/27/2010	B265R8
699-54-45A	7/27/2010	B265R9
699-54-45A	7/27/2010	B265T0
699-54-45A	7/27/2010	B26673
699-54-45A	7/27/2010	B266D8
699-54-45A	7/27/2010	B266D9
699-54-45A	12/15/2010	B27X36
699-54-45A	12/15/2010	B27X37
699-54-45A	12/15/2010	B27X38
699-54-45A	12/15/2010	B27X39
699-54-45A	12/15/2010	B27X40
699-54-45A	12/15/2010	B27X41
699-54-45A	12/15/2010	B28JW6
699-54-45A	12/15/2010	B28K34
699-54-45A	12/15/2010	B28K35

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-55-76	4/11/2010	B24LV3
699-55-76	4/11/2010	B24LV4
699-55-76	4/11/2010	B24LV5
699-55-76	4/11/2010	B24LV6
699-55-76	4/11/2010	B24LV7
699-55-76	4/11/2010	B24M62
699-55-76	4/11/2010	B24P85
699-55-76	4/11/2010	B24P86
699-55-76	4/11/2010	B25054
699-55-76	7/13/2010	B265T1
699-55-76	7/13/2010	B265T2
699-55-76	7/13/2010	B265T3
699-55-76	7/13/2010	B265T4
699-55-76	7/13/2010	B265T5
699-55-76	7/13/2010	B265T6
699-55-76	7/13/2010	B26674
699-55-76	7/13/2010	B266F0
699-55-76	7/13/2010	B266F1
699-55-76	11/30/2010	B27X42
699-55-76	11/30/2010	B27X43
699-55-76	11/30/2010	B27X44
699-55-76	11/30/2010	B27X45
699-55-76	11/30/2010	B27X46
699-55-76	11/30/2010	B27X47
699-55-76	11/30/2010	B28JW7
699-55-76	11/30/2010	B28K36
699-55-76	11/30/2010	B28K37
699-55-89	4/11/2010	B24LV8
699-55-89	4/11/2010	B24LV9
699-55-89	4/11/2010	B24LW0

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-55-89	4/11/2010	B24LW1
699-55-89	4/11/2010	B24LW2
699-55-89	4/11/2010	B24M63
699-55-89	4/11/2010	B24P87
699-55-89	4/11/2010	B24P88
699-55-89	4/11/2010	B25055
699-55-89	7/13/2010	B265T7
699-55-89	7/13/2010	B265T8
699-55-89	7/13/2010	B265T9
699-55-89	7/13/2010	B265V0
699-55-89	7/13/2010	B265V1
699-55-89	7/13/2010	B265V2
699-55-89	7/13/2010	B26675
699-55-89	7/13/2010	B266F2
699-55-89	7/13/2010	B266F3
699-55-89	12/1/2010	B27X48
699-55-89	12/1/2010	B27X49
699-55-89	12/1/2010	B27X50
699-55-89	12/1/2010	B27X51
699-55-89	12/1/2010	B27X52
699-55-89	12/1/2010	B27X53
699-55-89	12/1/2010	B28JW8
699-55-89	12/1/2010	B28K38
699-55-89	12/1/2010	B28K39
699-60-32	4/11/2010	B24LW3
699-60-32	4/11/2010	B24LW4
699-60-32	4/11/2010	B24LW5
699-60-32	4/11/2010	B24LW6
699-60-32	4/11/2010	B24LW7
699-60-32	4/11/2010	B24M64

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-60-32	4/11/2010	B24P89
699-60-32	4/11/2010	B24P90
699-60-32	4/11/2010	B25056
699-60-32	8/29/2010	B265V3
699-60-32	8/29/2010	B265V4
699-60-32	8/29/2010	B265V5
699-60-32	8/29/2010	B265V6
699-60-32	8/29/2010	B265V7
699-60-32	8/29/2010	B265V8
699-60-32	8/29/2010	B26676
699-60-32	8/29/2010	B266F4
699-60-32	8/29/2010	B266F5
699-60-32	12/5/2010	B27X54
699-60-32	12/5/2010	B27X55
699-60-32	12/5/2010	B27X56
699-60-32	12/5/2010	B27X58
699-60-32	12/5/2010	B27X59
699-60-32	12/5/2010	B284R0
699-60-32	12/5/2010	B284R1
699-60-32	12/5/2010	B284R2
699-60-32	12/5/2010	B28645
699-60-32	12/5/2010	B28K40
699-60-32	12/5/2010	B28K41
699-61-66	4/11/2010	B24LW8
699-61-66	4/11/2010	B24LW9
699-61-66	4/11/2010	B24LX0
699-61-66	4/11/2010	B24LX1
699-61-66	4/11/2010	B24NB9
699-61-66	4/11/2010	B24NC0
699-61-66	4/11/2010	B24P91

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-61-66	4/11/2010	B24P92
699-61-66	4/11/2010	B24TF1
699-61-66	4/11/2010	B25062
699-61-66	4/11/2010	B25063
699-61-66	7/15/2010	B265V9
699-61-66	7/15/2010	B265W0
699-61-66	7/15/2010	B265W1
699-61-66	7/15/2010	B265W2
699-61-66	7/15/2010	B265W3
699-61-66	7/15/2010	B265W4
699-61-66	7/15/2010	B26677
699-61-66	7/15/2010	B266F6
699-61-66	7/15/2010	B266F7
699-61-66	12/5/2010	B27X60
699-61-66	12/5/2010	B27X61
699-61-66	12/5/2010	B27X62
699-61-66	12/5/2010	B27X63
699-61-66	12/5/2010	B27X64
699-61-66	12/5/2010	B27X65
699-61-66	12/5/2010	B28JW9
699-61-66	12/5/2010	B28K42
699-61-66	12/5/2010	B28K43
699-62-43F	4/11/2010	B24LX2
699-62-43F	4/11/2010	B24LX3
699-62-43F	4/11/2010	B24LX4
699-62-43F	4/11/2010	B24LX5
699-62-43F	4/11/2010	B24LX6
699-62-43F	4/11/2010	B24LX7
699-62-43F	4/11/2010	B24LX8
699-62-43F	4/11/2010	B24LX9

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-62-43F	4/11/2010	B24LY0
699-62-43F	4/11/2010	B24M65
699-62-43F	4/11/2010	B24M66
699-62-43F	4/11/2010	B24P93
699-62-43F	4/11/2010	B24P94
699-62-43F	4/11/2010	B24P95
699-62-43F	4/11/2010	B24P96
699-62-43F	4/11/2010	B25064
699-62-43F	4/11/2010	B25065
699-62-43F	7/15/2010	B265W5
699-62-43F	7/15/2010	B265W6
699-62-43F	7/15/2010	B265W7
699-62-43F	7/15/2010	B265W8
699-62-43F	7/15/2010	B265W9
699-62-43F	7/15/2010	B265X0
699-62-43F	7/15/2010	B26678
699-62-43F	7/15/2010	B26690
699-62-43F	7/15/2010	B266F8
699-62-43F	7/15/2010	B266F9
699-62-43F	7/15/2010	B268P1
699-62-43F	7/15/2010	B269K7
699-62-43F	12/17/2010	B27X66
699-62-43F	12/17/2010	B27X67
699-62-43F	12/17/2010	B27X68
699-62-43F	12/17/2010	B27X69
699-62-43F	12/17/2010	B27X70
699-62-43F	12/17/2010	B27X71
699-62-43F	12/17/2010	B28JX0
699-62-43F	12/17/2010	B28K44
699-62-43F	12/17/2010	B28K45

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Well Name	Sample Date	Sample Number
699-63-25A	4/21/2010	B24PB9
699-63-25A	4/21/2010	B24PC0
699-63-25A	4/21/2010	B24PC1
699-63-25A	4/21/2010	B24PC2
699-63-25A	4/21/2010	B24PC3
699-63-25A	4/21/2010	B24PC4
699-63-25A	4/21/2010	B24PC5
699-63-25A	4/21/2010	B24PC6
699-63-25A	4/21/2010	B25066
699-63-25A	7/26/2010	B265X1
699-63-25A	7/26/2010	B265X2
699-63-25A	7/26/2010	B265X3
699-63-25A	7/26/2010	B265X4
699-63-25A	7/26/2010	B265X5
699-63-25A	7/26/2010	B265X6
699-63-25A	7/26/2010	B26679
699-63-25A	7/26/2010	B266H0
699-63-25A	7/26/2010	B266H1
699-63-25A	12/5/2010	B27X72
699-63-25A	12/5/2010	B27X73
699-63-25A	12/5/2010	B27X74
699-63-25A	12/5/2010	B27X76
699-63-25A	12/5/2010	B27X77
699-63-25A	12/5/2010	B284R6
699-63-25A	12/5/2010	B284R7
699-63-25A	12/5/2010	B284R8
699-63-25A	12/5/2010	B28655
699-63-25A	12/5/2010	B28K46
699-63-25A	12/5/2010	B28K47
699-65-50	5/4/2010	B24LY1

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-65-50	5/4/2010	B24LY2
699-65-50	5/4/2010	B24LY3
699-65-50	5/4/2010	B24LY4
699-65-50	5/4/2010	B24LY5
699-65-50	5/4/2010	B24M67
699-65-50	5/4/2010	B24NC6
699-65-50	5/4/2010	B24P97
699-65-50	5/4/2010	B24P98
699-65-50	5/4/2010	B25067
699-65-50	7/16/2010	B265X7
699-65-50	7/16/2010	B265X8
699-65-50	7/16/2010	B265X9
699-65-50	7/16/2010	B265Y0
699-65-50	7/16/2010	B265Y1
699-65-50	7/16/2010	B265Y2
699-65-50	7/16/2010	B26680
699-65-50	7/16/2010	B266H2
699-65-50	7/16/2010	B266H3
699-65-50	12/14/2010	B27X78
699-65-50	12/14/2010	B27X79
699-65-50	12/14/2010	B27X80
699-65-50	12/14/2010	B27X81
699-65-50	12/14/2010	B27X82
699-65-50	12/14/2010	B27X83
699-65-50	12/14/2010	B28JX1
699-65-50	12/14/2010	B28K48
699-65-50	12/14/2010	B28K49
699-65-72	5/17/2010	B259D3
699-65-72	5/17/2010	B259D4
699-65-72	5/17/2010	B259D5

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-65-72	5/17/2010	B259D6
699-65-72	5/17/2010	B259D7
699-65-72	5/17/2010	B259D8
699-65-72	5/17/2010	B259L4
699-65-72	5/17/2010	B259L5
699-65-72	5/17/2010	B259L6
699-65-72	5/17/2010	B25CC6
699-65-72	8/12/2010	B26M22
699-65-72	8/12/2010	B26M23
699-65-72	8/12/2010	B26M24
699-65-72	8/12/2010	B26M25
699-65-72	8/12/2010	B26N01
699-65-72	8/12/2010	B26N03
699-65-72	8/12/2010	B26N05
699-65-72	8/12/2010	B26NF0
699-65-72	8/12/2010	B26NF3
699-65-72	8/12/2010	B26NF4
699-65-72	9/2/2010	B27557
699-65-72	9/2/2010	B27619
699-65-72	9/2/2010	B27620
699-65-72	9/2/2010	B27621
699-65-72	9/2/2010	B27622
699-65-72	9/2/2010	B27623
699-65-72	9/2/2010	B27624
699-65-72	9/2/2010	B27625
699-65-72	9/2/2010	B27626
699-65-72	9/2/2010	B27627
699-66-58	4/11/2010	B24LY6
699-66-58	4/11/2010	B24LY7
699-66-58	4/11/2010	B24LY8

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-66-58	4/11/2010	B24LY9
699-66-58	4/11/2010	B24M00
699-66-58	4/11/2010	B24M68
699-66-58	4/11/2010	B24NC8
699-66-58	4/11/2010	B24P99
699-66-58	4/11/2010	B24PB0
699-66-58	4/11/2010	B25068
699-66-58	7/15/2010	B265Y3
699-66-58	7/15/2010	B265Y4
699-66-58	7/15/2010	B265Y5
699-66-58	7/15/2010	B265Y6
699-66-58	7/15/2010	B265Y7
699-66-58	7/15/2010	B265Y8
699-66-58	7/15/2010	B265Y9
699-66-58	7/15/2010	B26600
699-66-58	7/15/2010	B26601
699-66-58	7/15/2010	B26602
699-66-58	7/15/2010	B26603
699-66-58	7/15/2010	B26681
699-66-58	7/15/2010	B26682
699-66-58	7/15/2010	B266H4
699-66-58	7/15/2010	B266H5
699-66-58	7/15/2010	B266H6
699-66-58	7/15/2010	B266H7
699-66-58	12/5/2010	B27X84
699-66-58	12/5/2010	B27X85
699-66-58	12/5/2010	B27X86
699-66-58	12/5/2010	B27X87
699-66-58	12/5/2010	B27X88
699-66-58	12/5/2010	B27X89

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Well Name	Sample Date	Sample Number
699-66-58	12/5/2010	B28JX2
699-66-58	12/5/2010	B28K50
699-66-58	12/5/2010	B28K51
699-70-68	4/9/2010	B24M01
699-70-68	4/9/2010	B24M02
699-70-68	4/9/2010	B24M03
699-70-68	4/9/2010	B24M05
699-70-68	4/9/2010	B24M09
699-70-68	4/9/2010	B24M69
699-70-68	4/9/2010	B24ND1
699-70-68	4/9/2010	B24PB1
699-70-68	4/9/2010	B24PB2
699-70-68	4/9/2010	B25069
699-70-68	7/13/2010	B26604
699-70-68	7/13/2010	B26605
699-70-68	7/13/2010	B26606
699-70-68	7/13/2010	B26608
699-70-68	7/13/2010	B26610
699-70-68	7/13/2010	B26614
699-70-68	7/13/2010	B26684
699-70-68	7/13/2010	B266H8
699-70-68	7/13/2010	B266H9
699-70-68	11/29/2010	B27X90
699-70-68	11/29/2010	B27X91
699-70-68	11/29/2010	B27X92
699-70-68	11/29/2010	B27X93
699-70-68	11/29/2010	B27X94
699-70-68	11/29/2010	B27X95
699-70-68	11/29/2010	B282R4
699-70-68	11/29/2010	B28DB1

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-70-68	11/29/2010	B28K52
699-70-68	11/29/2010	B28K53
699-71-30	4/15/2010	B24M10
699-71-30	4/15/2010	B24M11
699-71-30	4/15/2010	B24M12
699-71-30	4/15/2010	B24M13
699-71-30	4/15/2010	B24M14
699-71-30	4/15/2010	B24M71
699-71-30	4/15/2010	B24PB5
699-71-30	4/15/2010	B24PB6
699-71-30	4/15/2010	B25071
699-71-30	7/13/2010	B26615
699-71-30	7/13/2010	B26616
699-71-30	7/13/2010	B26617
699-71-30	7/13/2010	B26618
699-71-30	7/13/2010	B26619
699-71-30	7/13/2010	B26620
699-71-30	7/13/2010	B26685
699-71-30	7/13/2010	B266J2
699-71-30	7/13/2010	B266J3
699-71-30	11/29/2010	B27X96
699-71-30	11/29/2010	B27X97
699-71-30	11/29/2010	B27X98
699-71-30	11/29/2010	B27XB0
699-71-30	11/29/2010	B27XB1
699-71-30	11/29/2010	B284T5
699-71-30	11/29/2010	B284T6
699-71-30	11/29/2010	B284T7
699-71-30	11/29/2010	B28656
699-71-30	11/29/2010	B28K54

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-71-30	11/29/2010	B28K55
699-72-92	4/9/2010	B24M15
699-72-92	4/9/2010	B24M16
699-72-92	4/9/2010	B24M17
699-72-92	4/9/2010	B24M18
699-72-92	4/9/2010	B24M19
699-72-92	4/9/2010	B24M72
699-72-92	4/9/2010	B24PB7
699-72-92	4/9/2010	B24PB8
699-72-92	4/9/2010	B25072
699-72-92	7/13/2010	B26621
699-72-92	7/13/2010	B26622
699-72-92	7/13/2010	B26623
699-72-92	7/13/2010	B26624
699-72-92	7/13/2010	B26625
699-72-92	7/13/2010	B26626
699-72-92	7/13/2010	B26686
699-72-92	7/13/2010	B266J4
699-72-92	7/13/2010	B266J5
699-72-92	12/1/2010	B27XB2
699-72-92	12/1/2010	B27XB3
699-72-92	12/1/2010	B27XB4
699-72-92	12/1/2010	B27XB5
699-72-92	12/1/2010	B27XB6
699-72-92	12/1/2010	B27XB7
699-72-92	12/1/2010	B284K9
699-72-92	12/1/2010	B284L0
699-72-92	12/1/2010	B28657
699-72-92	12/1/2010	B28K56
699-72-92	12/1/2010	B28K57

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-74-44	4/21/2010	B24M20
699-74-44	4/21/2010	B24M21
699-74-44	4/21/2010	B24M22
699-74-44	4/21/2010	B24M23
699-74-44	4/21/2010	B24M24
699-74-44	4/21/2010	B24M73
699-74-44	4/21/2010	B24PC7
699-74-44	4/21/2010	B24PC8
699-74-44	4/21/2010	B25073
699-74-44	7/15/2010	B26627
699-74-44	7/15/2010	B26628
699-74-44	7/15/2010	B26629
699-74-44	7/15/2010	B26630
699-74-44	7/15/2010	B26631
699-74-44	7/15/2010	B26632
699-74-44	7/15/2010	B26687
699-74-44	7/15/2010	B266J6
699-74-44	7/15/2010	B266J7
699-74-44	11/29/2010	B27XB8
699-74-44	11/29/2010	B27XB9
699-74-44	11/29/2010	B27XC0
699-74-44	11/29/2010	B27XC2
699-74-44	11/29/2010	B27XC3
699-74-44	11/29/2010	B284T8
699-74-44	11/29/2010	B284T9
699-74-44	11/29/2010	B284V0
699-74-44	11/29/2010	B28658
699-74-44	11/29/2010	B28K58
699-74-44	11/29/2010	B28K59
699-77-36	5/17/2010	B25906

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-77-36	5/17/2010	B25907
699-77-36	5/17/2010	B25908
699-77-36	5/17/2010	B25909
699-77-36	5/17/2010	B25910
699-77-36	5/17/2010	B25B24
699-77-36	5/17/2010	B25B83
699-77-36	5/17/2010	B25B84
699-77-36	7/26/2010	B264B7
699-77-36	7/26/2010	B264B8
699-77-36	7/26/2010	B264B9
699-77-36	7/26/2010	B264C0
699-77-36	7/26/2010	B264C1
699-77-36	7/26/2010	B26582
699-77-36	7/26/2010	B26651
699-77-36	7/26/2010	B26652
699-77-36	11/29/2010	B27T93
699-77-36	11/29/2010	B27T94
699-77-36	11/29/2010	B27T96
699-77-36	11/29/2010	B27T97
699-77-36	11/29/2010	B28357
699-77-36	11/29/2010	B28358
699-77-36	11/29/2010	B28373
699-77-54	4/9/2010	B24M25
699-77-54	4/9/2010	B24M26
699-77-54	4/9/2010	B24M27
699-77-54	4/9/2010	B24M28
699-77-54	4/9/2010	B24M29
699-77-54	4/9/2010	B24M74
699-77-54	4/9/2010	B24PC9
699-77-54	4/9/2010	B24PD0

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-77-54	4/9/2010	B25074
699-77-54	6/18/2010	B25FK1
699-77-54	6/18/2010	B25K93
699-77-54	6/18/2010	B25K94
699-77-54	6/18/2010	B25K95
699-77-54	6/18/2010	B25K96
699-77-54	6/18/2010	B25K97
699-77-54	6/18/2010	B25KF2
699-77-54	6/18/2010	B25KF3
699-77-54	6/18/2010	B25KK0
699-77-54	6/18/2010	B25NF3
699-77-54	6/18/2010	B25NF4
699-77-54	9/19/2010	B27558
699-77-54	9/19/2010	B27559
699-77-54	9/19/2010	B27560
699-77-54	9/19/2010	B27562
699-77-54	9/19/2010	B27563
699-77-54	9/19/2010	B27564
699-77-54	9/19/2010	B277Y1
699-77-54	9/19/2010	B277Y2
699-77-54	9/19/2010	B278K7
699-77-54	9/19/2010	B278K8
699-77-54	9/19/2010	B278K9
699-77-54	9/19/2010	B27949
699-8-25	4/27/2010	B24M30
699-8-25	4/27/2010	B24M31
699-8-25	4/27/2010	B24M32
699-8-25	4/27/2010	B24M33
699-8-25	4/27/2010	B24ND5
699-8-25	4/27/2010	B24ND6

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-8-25	4/27/2010	B24NV5
699-8-25	4/27/2010	B24PD1
699-8-25	4/27/2010	B24PD2
699-8-25	4/27/2010	B25023
699-8-25	4/27/2010	B25024
699-8-25	7/20/2010	B26633
699-8-25	7/20/2010	B26634
699-8-25	7/20/2010	B26635
699-8-25	7/20/2010	B26636
699-8-25	7/20/2010	B26637
699-8-25	7/20/2010	B26638
699-8-25	7/20/2010	B26688
699-8-25	7/20/2010	B266J8
699-8-25	7/20/2010	B266J9
699-8-25	12/9/2010	B27XC4
699-8-25	12/9/2010	B27XC5
699-8-25	12/9/2010	B27XC6
699-8-25	12/9/2010	B27XC7
699-8-25	12/9/2010	B27XC8
699-8-25	12/9/2010	B27XC9
699-8-25	12/9/2010	B28JX3
699-8-25	12/9/2010	B28K60
699-8-25	12/9/2010	B28K61
699-89-35	4/15/2010	B24M34
699-89-35	4/15/2010	B24M35
699-89-35	4/15/2010	B24M36
699-89-35	4/15/2010	B24M38
699-89-35	4/15/2010	B24M42
699-89-35	4/15/2010	B24M75
699-89-35	4/15/2010	B24PD3

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-89-35	4/15/2010	B24PD4
699-89-35	4/15/2010	B25075
699-89-35	7/15/2010	B26639
699-89-35	7/15/2010	B26640
699-89-35	7/15/2010	B26641
699-89-35	7/15/2010	B26642
699-89-35	7/15/2010	B26643
699-89-35	7/15/2010	B26644
699-89-35	7/15/2010	B26689
699-89-35	7/15/2010	B266K0
699-89-35	7/15/2010	B266K1
699-89-35	11/29/2010	B27XD0
699-89-35	11/29/2010	B27XD1
699-89-35	11/29/2010	B27XD2
699-89-35	11/29/2010	B27XD3
699-89-35	11/29/2010	B27XD4
699-89-35	11/29/2010	B27XD5
699-89-35	11/29/2010	B28JX4
699-89-35	11/29/2010	B28K62
699-89-35	11/29/2010	B28K63
699-S3-25	4/26/2010	B24M43
699-S3-25	4/26/2010	B24M44
699-S3-25	4/26/2010	B24M45
699-S3-25	4/26/2010	B24M46
699-S3-25	4/26/2010	B24M47
699-S3-25	4/26/2010	B24M76
699-S3-25	4/26/2010	B24NF7
699-S3-25	4/26/2010	B24NV6
699-S3-25	4/26/2010	B24PD7
699-S3-25	4/26/2010	B24PD8

Table D-7. List of Sample IDs

Well Name	Sample Date	Sample Number
699-S3-25	4/26/2010	B25077
699-S3-25	7/23/2010	B26645
699-S3-25	7/23/2010	B26646
699-S3-25	7/23/2010	B26647
699-S3-25	7/23/2010	B26648
699-S3-25	7/23/2010	B26649
699-S3-25	7/23/2010	B26691
699-S3-25	7/23/2010	B266K2
699-S3-25	7/23/2010	B269K8
699-S3-25	7/23/2010	B26650
699-S3-25	12/7/2010	B27XD6
699-S3-25	12/7/2010	B27XD7
699-S3-25	12/7/2010	B27XF1
699-S3-25	12/7/2010	B27XD8
699-S3-25	12/7/2010	B27XD9
699-S3-25	12/7/2010	B27XF0
699-S3-25	12/7/2010	B28JX5
699-S3-25	12/7/2010	B28K64
699-S3-25	12/7/2010	B28K65

D3.3 Data Verification and Validation

Data collected for the RI/FS were verified and validated. Verification is the process of evaluating the completeness, correctness, and conformance/compliance of the data against the method, procedural, or contractual requirements for the laboratory.

The purpose of the data validation is to determine, through the evaluation of supporting documentation, whether data meet precision and accuracy requirements of an analytical method and whether the data quality goals established during the planning phase have been achieved. The results of project data validation are summarized in the Data Quality Assessment.

D3.4 Data Quality Assessment

Data collected for the RI/FS were verified and validated. Verification is the process of evaluating the completeness, correctness, and conformance/compliance of the data against the method, procedural, or contractual requirements for the laboratory.

The purpose of the data validation is to determine, through the evaluation of supporting documentation, whether data meet precision and accuracy requirements of an analytical method and the data quality goals established during the planning phase have been achieved. The results of project data validation are summarized in the Data Quality Assessments (DQAs): *100-F and 100-IU-2/6 Remedial Investigation/* Feasibility Study Data Quality Assessment Report (WCH-521) for the vadose zone and Data Quality Assessment for the 100-FR-1,100-FR-2, 100-FR-3, 100-IU-2, and 100-IU-6 Operable Units Remedial Investigation/Feasibility Study (DOE/RL-2012-66) for groundwater and aquifer sediments.

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