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Environmental Monitoring Report Salmon, Mississippi, Site 2014 and 2016

November 2018

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Abbreviations

AOC	area of concern
As	arsenic
Ba	barium
Cl-36	chlorine-36
Cl	chloride
Cr	chromium
DCE	dichloroethene
DOE	U.S. Department of Energy
ft	feet
GEMS	Geospatial Environmental Mapping System
K^+	potassium
LM	Office of Legacy Management
MCL	maximum contaminant level
µg/L	micrograms per liter
mg/L	milligrams per liter
OM	order of magnitude
Pb	lead
pCi/L	picocuries per liter
REECo	Reynolds Engineering & Electrical Company, Inc.
RI	remedial investigation
SA	source area
SGZ	surface ground zero
TCE	trichloroethene
VOCs	volatile organic compounds

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Executive Summary

This report presents the monitoring results for groundwater and surface water samples collected in 2014 and 2016 by the U.S. Department of Energy (DOE) Office of Legacy Management (LM) for the Salmon, Mississippi, Site.

The U.S. Atomic Energy Commission (AEC), a predecessor agency to DOE, conducted a series of underground detonations in the Tatum Salt Dome beneath the Salmon site between 1964 and 1970 to study seismic signatures. Groundwater sampling at the site is conducted to monitor shallow groundwater that was contaminated resulting from the AEC use of the site, contamination within the shot cavity, and contamination in the Aquifer 5 injection well. Surface water sampling is conducted to ensure no contaminants are leaving the site.

No contamination above MCLs was detected in surface water leaving the site. Concentrations of volatile organic compounds (VOCs) continue to trend downward, and only one well has VOC concentrations that exceed a maximum contaminant level (MCL). Tritium concentrations in all wells are below the MCL, and the tritium continues to attenuate and to decline as a result of radioactive decay. By 2060, tritium at all shallow groundwater monitoring locations is projected to decay to levels below the standard method detection limit (300 to 400 picocuries per liter). During the current reporting period arsenic and chromium were present in groundwater above the respective MCL at a few locations. Concentrations are stable (with some temporal variability) with no well-defined trends. Only arsenic is present above its MCL at more than one location and its occurrence varies by location and unit with no well-defined pattern. The source of the metals is unclear. Some may be naturally occurring or related to the use of drilling muds. Monitoring of deeper aquifers shows no indication of leakage from either the test cavity or the injection well.

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1.0 Introduction

This report presents monitoring results for samples collected in 2014 and 2016 by the U.S. Department of Energy (DOE) Office of Legacy Management (LM) for the Salmon, Mississippi, Site. The State of Mississippi (the State) owns the surface real estate at the site, and the deed to the property includes certain restrictions related to subsurface penetration. The State is the surface operator; the Mississippi Forestry Commission is its agent. The federal government owns the monitoring wells, the monument at surface ground zero (SGZ), and the subsurface real estate, including minerals and contamination remaining from underground tests. LM has responsibility for the long-term surveillance of the subsurface real estate, shares right-of-entry easements with the State, and retains rights related to subsurface monitoring.

This annual report and previous reports are available on the LM public website at https://www.lm.doe.gov/salmon/Sites.aspx. Data collected during this and previous monitoring events are available on the Geospatial Environmental Mapping System (GEMS) website at https://gems.lm.doe.gov/#site=SAL.

2.0 Site Location and Background

The Salmon site consists of 1470 acres in Lamar County, Mississippi, approximately 10 miles west of Purvis, Mississippi, and about 21 miles southwest of Hattiesburg, Mississippi (Figure 1). The U.S. Atomic Energy Commission, a predecessor agency to DOE, conducted a series of underground detonations in the Tatum Salt Dome beneath the site to study seismic signatures. Figure 2 shows the extent of the salt dome at about 2500 feet (ft) below ground surface. Two nuclear tests (Project Dribble) and two gas-explosive tests (Project Miracle Play) were conducted in the salt dome between 1964 and 1970. Salmon, the first nuclear test, was conducted on October 22, 1964, and created a cavity approximately 2710 ft below ground surface (Figure 3). The second nuclear test, Sterling, was conducted on December 3, 1966. The Sterling test and the two gas explosions—Diode Tube on February 2, 1969, and Humid Water on April 19, 1970—were all conducted in the cavity created by the Salmon test. No radioactivity was released to the surface during the four tests. Residual radioactivity from Project Dribble is contained within the cavity walls and the cavity itself. The plasticity and impermeability of the surrounding salt formation provide sufficient geologic isolation to prevent migration of contaminants.

Reentry holes were drilled into the detonation cavity to collect scientific information and determine the effects of each explosion. These drilling operations generated the largest volume of waste at the site, including radioactively contaminated drill cuttings and drilling fluids. In addition, support activities generated wastes other than radioactively contaminated materials as part of the testing operations. Test site support operations required fuel, electricity, sanitation, waste storage, waste disposal, and use of hazardous materials. Waste materials were temporarily disposed of in several mud pits and burial pits across the site.

Radioactive wastes, including contaminated soil and water, were disposed of in the cavity left by the tests, via reentry wells. The reentry wells were plugged after the waste was disposed (DOE 1999). The HT-2 injection well was used following the first nuclear test to dispose of radiologically contaminated liquid wastes into Aquifer 5. The injection well (HT-2) in the southwest corner of the site was plugged during site cleanup operations.

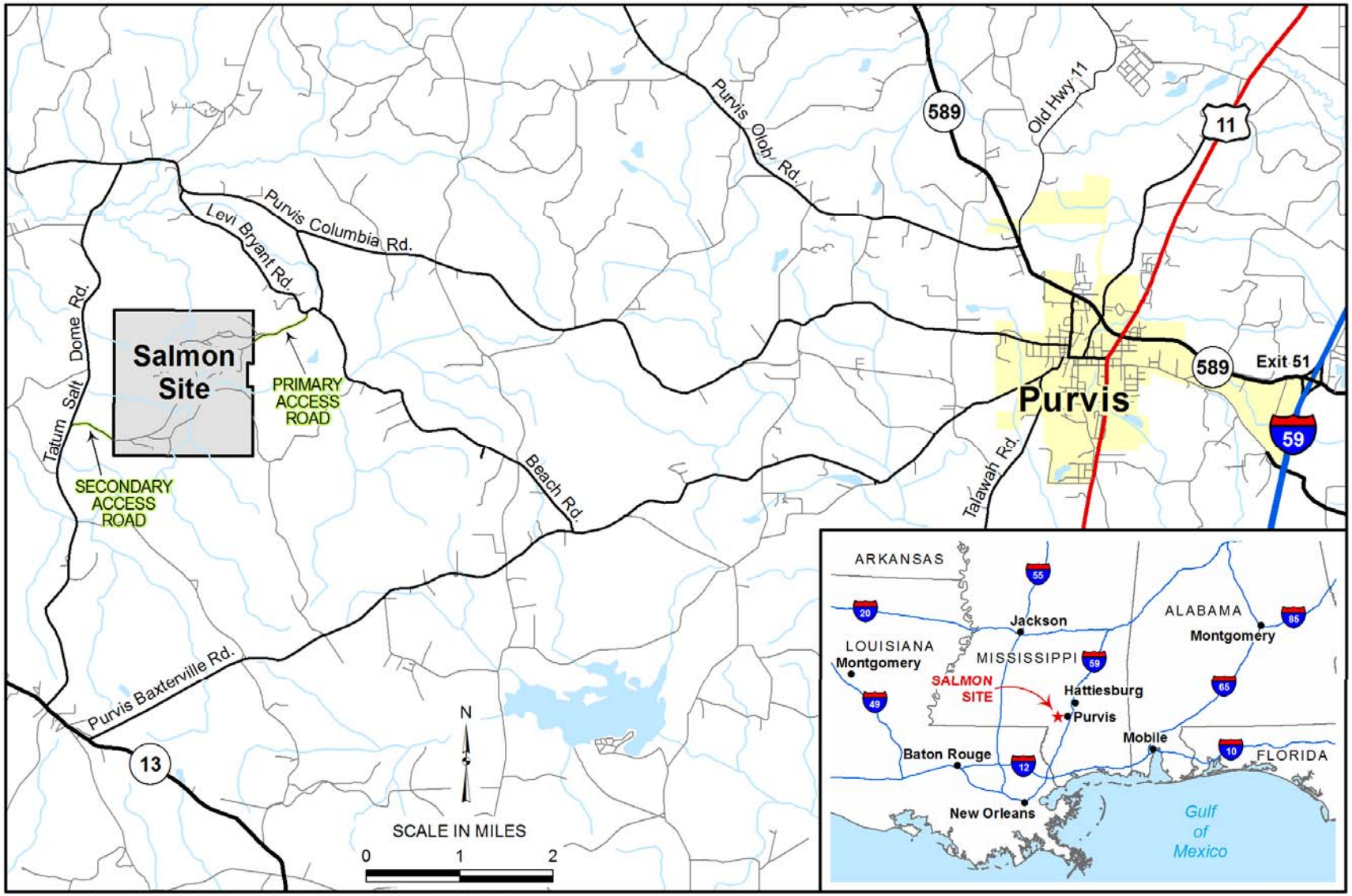

Figure 1. Salmon Site and Surrounding Region

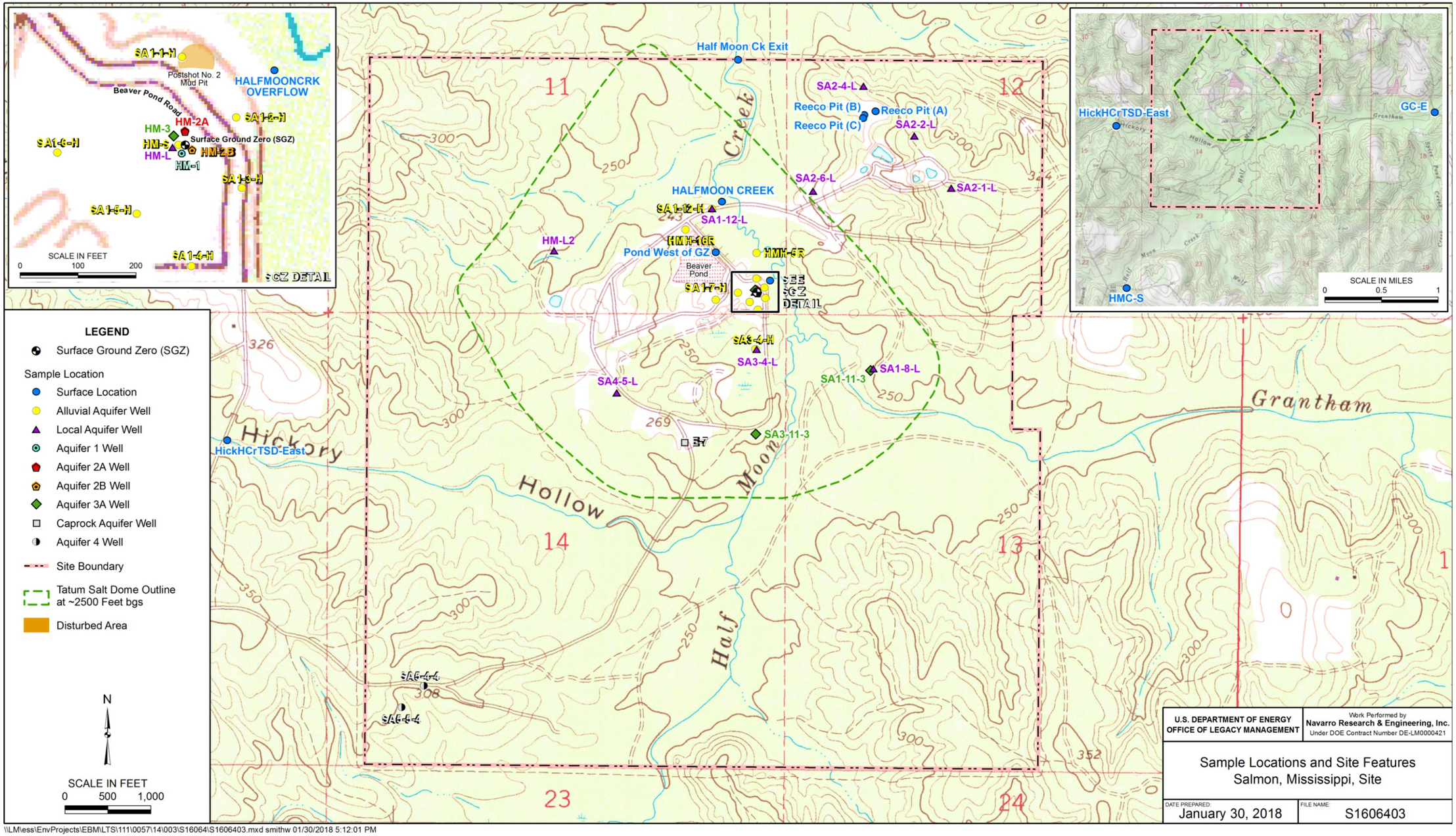

Figure 2. Salmon Site Features and Monitoring Locations

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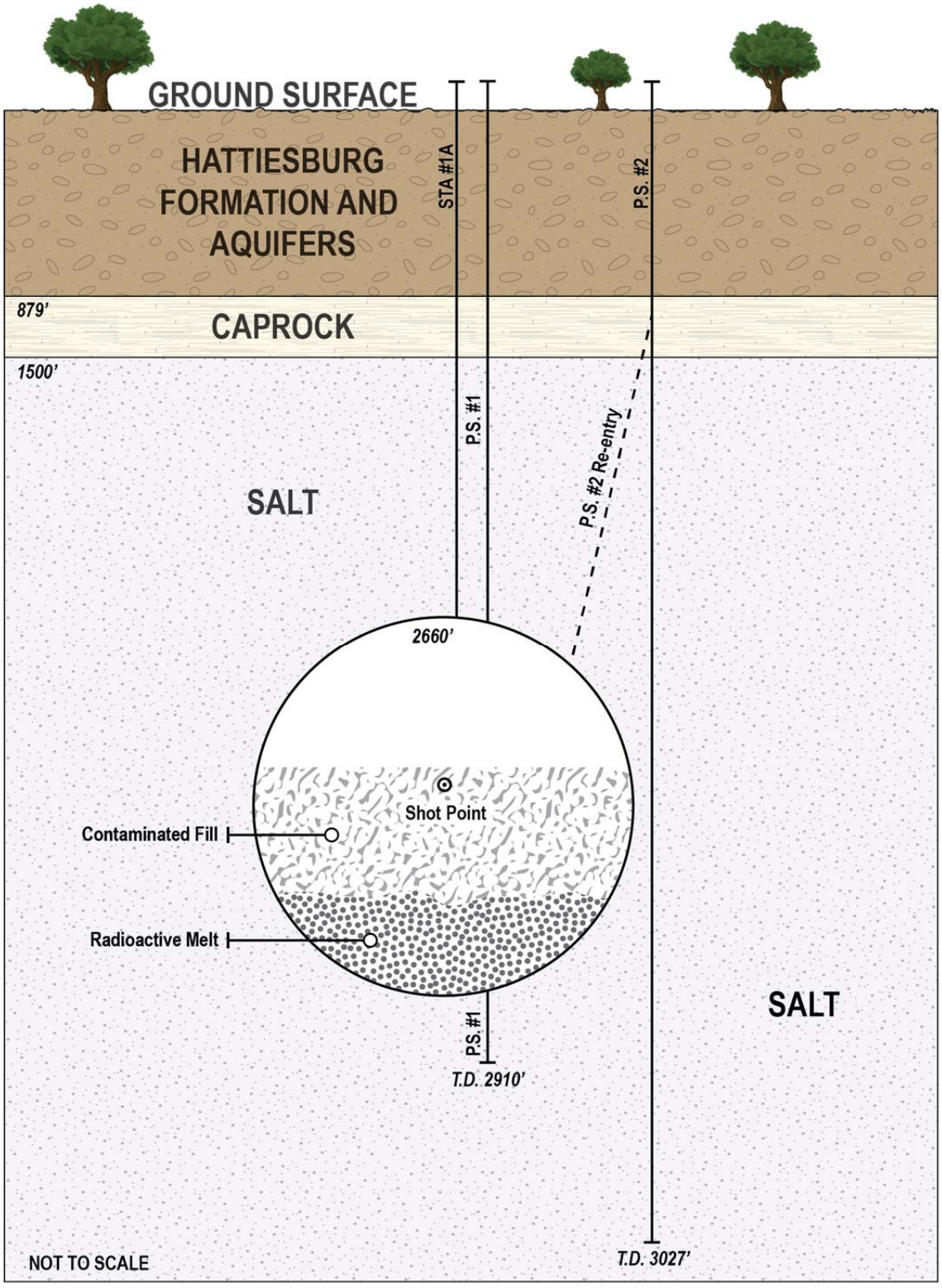


Figure 3. Cross-Sectional Depiction of the Shot Cavity after Surface Decommissioning

Significant cleanup operations were conducted in 1972. During this cleanup, soil contaminated with drilling fluids from drill-back operations was converted to a slurry and injected into the test cavity. Nonradioactive wastes were disposed of in pits at the site, which were subsequently covered with clean soil and graded. All test boreholes for emplacement, drill-back, and injection, as well as other wells, were plugged and abandoned in accordance with State of Mississippi requirements.

A remedial investigation (RI)/feasibility study for the site was prepared in 1992 (DOE 1993). During the RI the site was divided into six geographically distinct source areas (SAs) based on the historical activities conducted in the different areas of the site. A number of areas of concern (AOCs) were identified within each source area based on historical site activities. Additional investigations of the site were focused on identifying any residual contamination left at the AOCs within each SA.

Additional data were collected during the 1990s, and a subsequent RI report was prepared in 1999 (DOE 1999). As part of the 1999 RI, sampling of soil and groundwater was conducted across the site. Samples were analyzed for volatile organic compounds (VOCs), radionuclides, and metals. The 1999 RI discusses the site in terms of operable units, which were defined as geographical units with the same potential source of contamination that remained after site decommissioning. These residual sources of contamination are different from the historical source areas previously identified, as discussed below.

Three operable units were established in the 1999 RI based on three primary sources of residual site contamination. Operable Unit 1 includes the surface soil and shallow aquifer system that were affected mainly by drilling activities at the surface (e.g., mud pits, drill cuttings), primarily near SGZ. Operable Unit 2 includes the test cavity and the overlying aquifers, particularly those at intermediate depths, and includes constituents produced by the nuclear test itself and materials disposed of in the cavity during decommissioning. Operable Unit 3 includes the injection well and deep aquifers and liquid radioactive wastes that were disposed of in the deep subsurface following the first nuclear test. The monitoring approach and results discussed in this report are organized generally according to the operable units recognized in the 1999 RI.

3.0 Geologic and Hydrologic Setting

3.1 Geologic Setting

Tatum Dome is a salt dome within the Mississippi Interior Salt Basin. The dome consists of a salt core overlain by cap rock composed of limestone and anhydrite (Figure 4). The salt consists of roughly 90% halite (sodium chloride) and 10 percent anhydrite (calcium sulfate). The anhydrite cap rock is 450 to 600 ft thick and extends upward to about 1000 ft below ground surface. The cap rock is overlain by the Catahoula Sandstone of Oligocene age; the Catahoula is 100 to 200 ft thick and is overlain by the Pascagoula–Hattiesburg clays of Miocene age (Hattiesburg Formation), which crop out regionally in the lower stream valleys and also extend across the dome. The Hattiesburg Formation is 550 to 750 ft thick. The surficial material at the Salmon site consists of the Citronelle Formation, which is present in the highlands (Figure 4); sporadic terrace deposits on the slopes; and alluvium of Pliocene–Pleistocene–recent age in the lowlands. The terrace deposits and alluvium consist of interbedded gravels, sands, and silty clays about 150 ft thick. The Citronelle crops out on the slopes and tops of the hills in the site area.

The Cook Mountain limestone and the overlying Vicksburg Group are stratigraphic units below the Catahoula Sandstone and are both pierced by the dome. The Tatum Dome appears to have no topographic expression.

3.2 Hydrologic Setting

Aquifers containing fresh water extend from near the surface to about 1400 ft below mean sea level (MSL) in the Tatum Dome area; however, the salt dome has locally modified the water quality so that fresh water over the dome extends only to about 700 ft below MSL (Figure 4). Thus, some aquifers that contain saline water over the dome contain fresh water away from the influence of the dome. There are multiple freshwater aquifers, including two surficial aquifers (the Alluvial Aquifer and surficial waters in the Citronelle Formation) and six deeper aquifers (Local, 1, 2a, 2b, 3a, and 3b). These are underlain by one brackish aquifer (4) and at least one underlying saline aquifer (5) in the strata surrounding the Tatum Salt Dome (Figure 4). The oil industry has used Aquifer 5 for brine injection since 1950 at the Baxterville oil field 6 miles southwest of the Salmon site.

Fresh, brackish, and saline waters are defined as waters containing total dissolved solids concentrations of less than 1000 milligrams per liter (mg/L), 1000 to 5000 mg/L, and more than 5000 mg/L, respectively. The freshwater surficial aquifers and Local Aquifer are discontinuous. The deeper freshwater aquifers (1, 2a, 2b, 3a, and 3b) are horizontally extensive, although they may be locally offset or interrupted by faults near the dome (USGS 1971). Many water supply wells in Lamar County use groundwater from one or more of the deeper freshwater aquifers. Water is also present in fractures in the cap rock and is referred to as the Caprock Aquifer.

Wells in the current monitoring network (Figure 2) monitor most of the freshwater aquifers as well as Aquifer 4 and the Caprock Aquifer. Thirteen monitoring wells are completed in the Alluvial Aquifer; 10 in the Local Aquifer; one in each of Aquifers 1, 2a, and 2b; three in Aquifer 3a; two in Aquifer 4; and one in the Caprock Aquifer. No wells are completed in Aquifer 5, Aquifer 3b, or the Citronelle Formation.

3.3 Site Conceptual Model and Monitoring Approach

Three primary contaminant source zones have been identified at the site based on the site history, results of previous site characterization, and monitoring results. The Alluvial and Local Aquifers near SGZ have areas of remnant contamination from surface activities and drill-back wastes temporarily stored in mud pits. The detonation cavity has contamination created by the nuclear tests and also was used for injection of surface wastes. Aquifer 5 was used for the disposal of liquid radioactive wastes. The site monitoring program monitors for the potential migration of contaminants from these source areas.

Groundwater flows in response to water level (head) gradients in site aquifers. There is a downward vertical gradient between aquifers near SGZ. The gradient decreases with depth to essentially no gradient, then becomes a slight upward gradient from Aquifer 3 to Aquifer 2B. This is demonstrated by the water elevations in the group of SGZ wells that are screened in successively deeper aquifers (Figure 5 and Figure 6). The low permeability of the confining layers between aquifers at the site causes the head differences and effectively limits vertical migration.

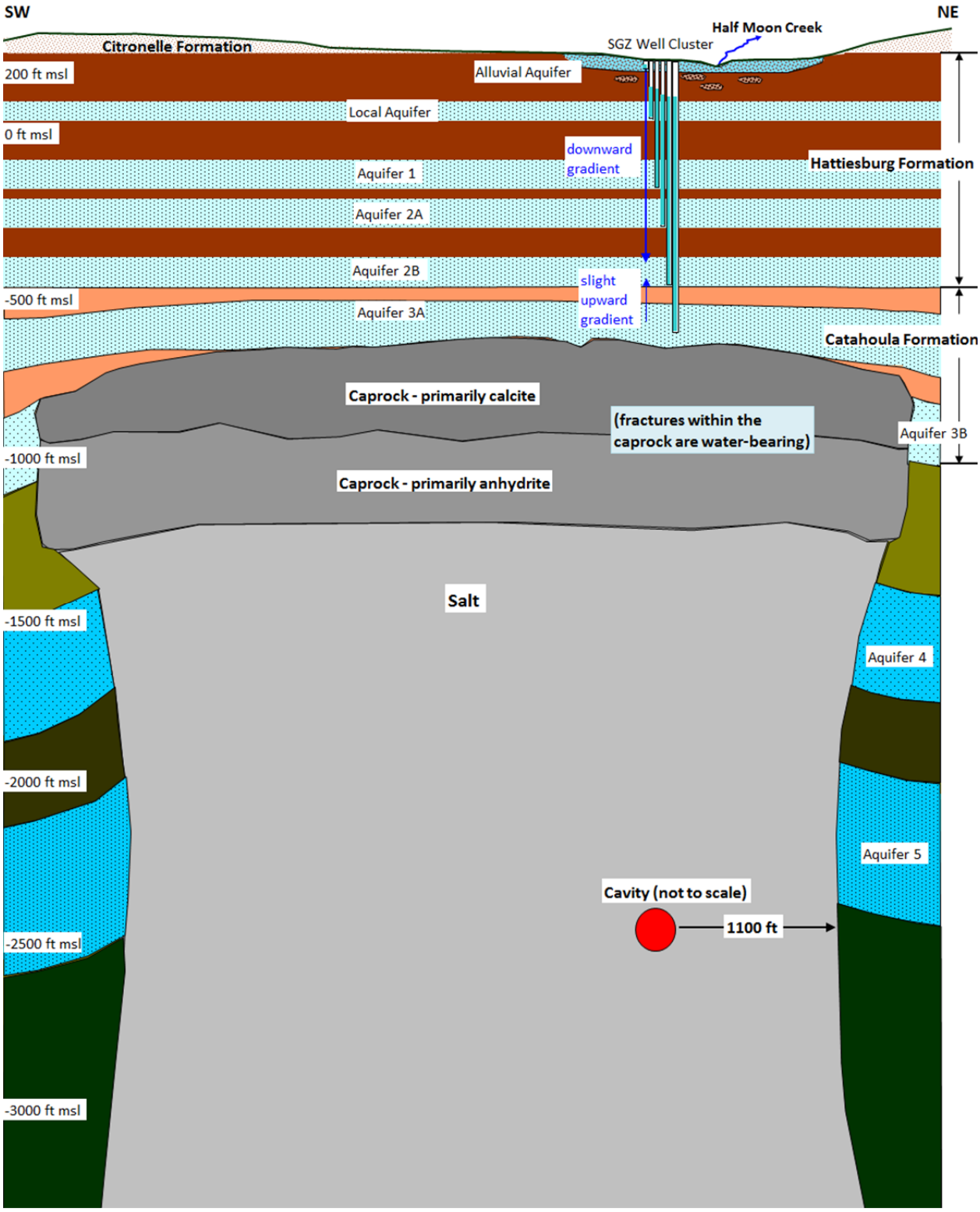


Figure 4. Conceptual Model of the Relationship of the Dome, Shot Cavity, and Surface Ground Zero Well Cluster

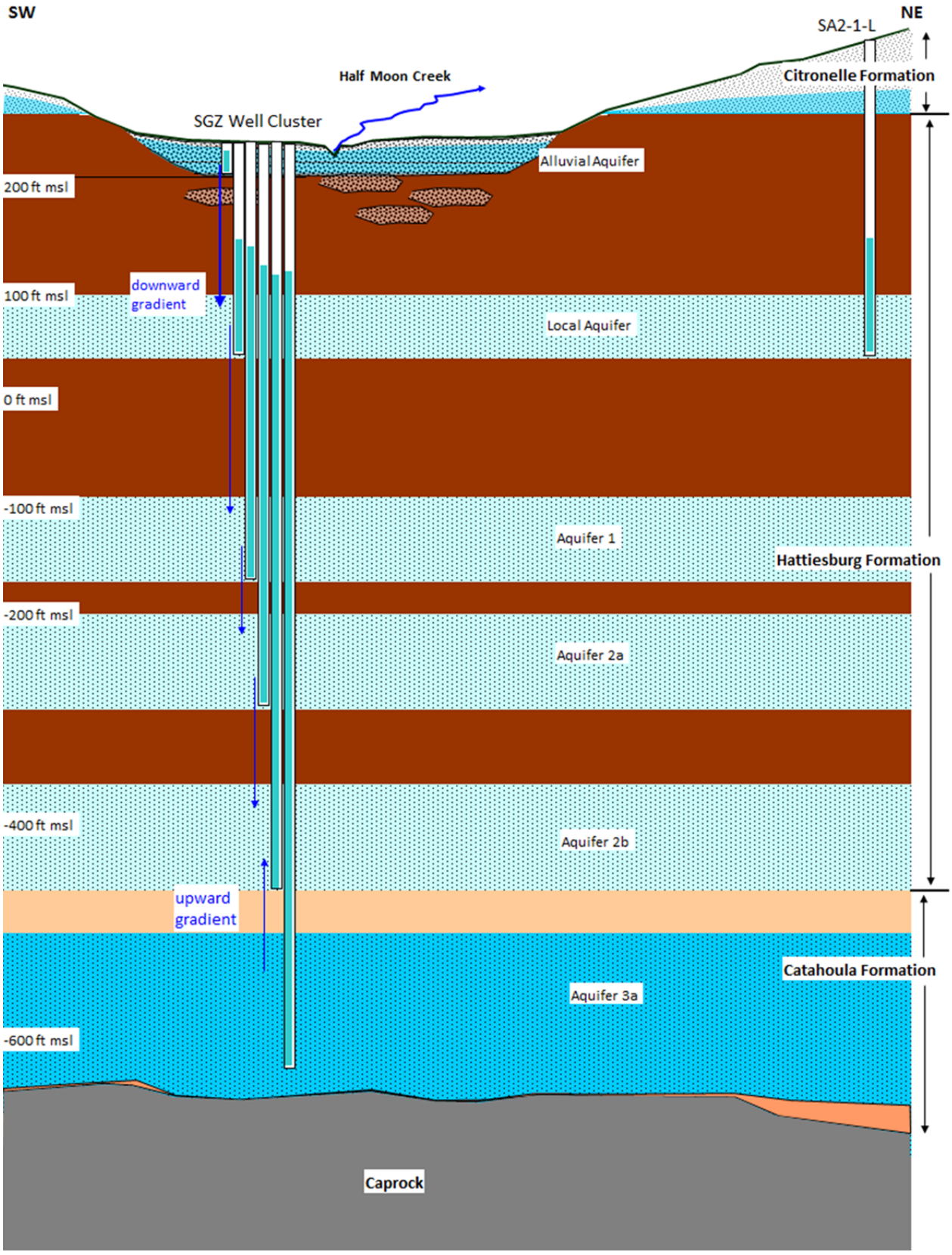
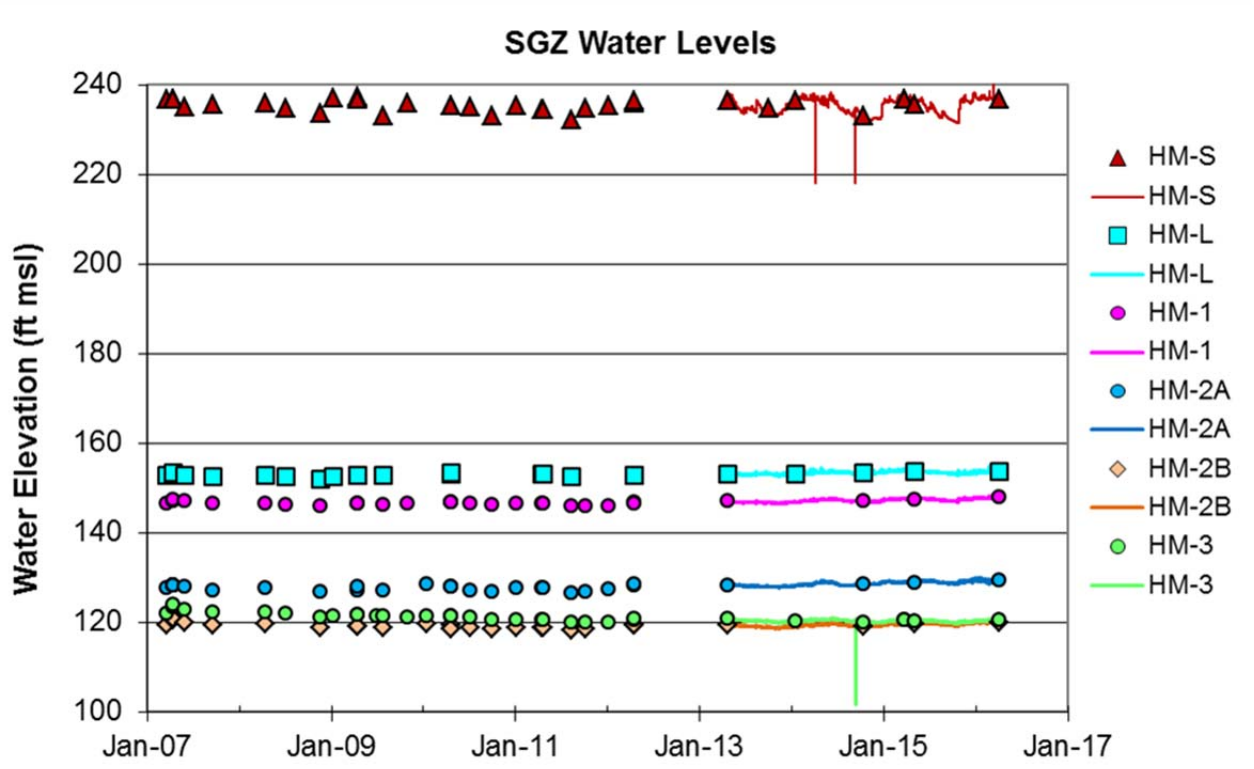


Figure 5. Conceptual Model of the Surface Ground Zero Well Cluster



Note:
Discrete symbols are manual readings, and lines are from transducer data recorded every 2 hours.

Figure 6. Surface Ground Zero Wells Water Elevations

Conduits, such as degrading cement around wellbores or unidentified sand lenses within the confining layers, increase the potential for vertical migration. The aquifer test conducted on HM-L (Local Aquifer well at SGZ) in 1979 pulled near-surface tritium contamination into the underlying Local Aquifer (DOE 1980). The travel path was assumed to be along the wellbore interfaces (casing /cement and cement/formation) of the multiple wells at SGZ that breach the confining layer that separates the Alluvial and Local Aquifers. The presence of previously unidentified sand lenses in the Local Aquifer confining unit was confirmed by well SA1-12-L (installed north of SGZ in 2014) which was screened in a sand lens above the Local Aquifer. The water elevations in SA1-12-L behave similarly to those screened in the Local Aquifer but are 15 to 20 ft higher than what would be expected for that location. The downward gradient from the shallow to the deeper aquifers would also impede upward migration from the cavity if water were to leak into the aquifers over the dome.

The largest head difference and strongest downward gradient is between the surficial Alluvial Aquifer and the underlying Local Aquifer, where there is an approximate 80 ft head difference across the intervening confining layer (average head of about 235 ft MSL in the Alluvial Aquifer and about 155 ft MSL in the underlying Local Aquifer). There is a 60 ft head difference between the Alluvial Aquifer and the sand lens above the Local Aquifer that SA1-12-L is screened across. The average head level in Aquifer 1 is about 148 ft; in Aquifer 2A it is 130 ft; and in Aquifer 2B and Aquifer 3 it is about 120 ft MSL. The head level in Aquifer 4 (133 ft MSL in the two wells 1.2 miles southwest of SGZ) is higher than the head level in Aquifer 3 by about 13 ft, implying

that the upward vertical gradient at depth increases with depth. Aquifers below Aquifer 3 are not present over the dome (the Aquifer 4 wells are 1.2 miles southwest of SGZ), and there are no Aquifer 1, 2, or 3 wells off the dome.

The potential for lateral migration of contaminants is primarily dependent on horizontal gradients and permeability within an aquifer. The alluvial monitoring network consists of wells near and downgradient of the source areas and a surface water location downstream of where any plume would enter Half Moon Creek. The horizontal gradients in the Alluvial Aquifer range from 0.001 to 0.01, with the steepest gradients occurring near streams. The potentiometric map of the Alluvial Aquifer was constructed using April 2016 data (Figure 7).

Groundwater flows from higher topographic areas toward the streams, past the potential source areas and into Half Moon Creek. Surface water entering and exiting the site is also monitored for contamination (Figure 2). Water levels in Alluvial Aquifer wells typically vary up to 5 ft or more from lows in the fall to highs in the spring (Figure 8).

Horizontal gradients and flow directions in the Local Aquifer are difficult to determine with available data but appear to be low (<0.001) and toward SGZ (Figure 9). Three new Local Aquifer wells and one new Alluvial Aquifer well were installed in September 2014 to improve the water elevation dataset and to provide additional locations to monitor for any contamination in the Local Aquifer. As previously mentioned, SA1-12-L, classified as a Local Aquifer well, is actually screened in a sand lens just above the Local Aquifer.

Four locations at the site now have both an Alluvial Aquifer and a Local Aquifer well, allowing aquifer interactions to be assessed. Water elevations in Local Aquifer wells respond quickly to changes in the Alluvial Aquifer. The 5 ft seasonal variability observed in the Alluvial Aquifer is transmitted to the Local Aquifer wells, though with a maximum magnitude of about 1 ft (Figure 8).

Water elevations in the three Aquifer 3 wells suggest there is gentle 0.001 gradient from SGZ to the south. There are an insufficient number of wells in Aquifers 1, 2A, 2B, and 4 to calculate horizontal gradients in those aquifers.

2014–2016 Monitoring Plan

The monitoring approach for the shallow aquifer is designed to monitor tritium and VOCs to observe (1) continued natural attenuation, (2) downgradient movement of contaminants, (3) any movement from the Alluvial Aquifer to the Local Aquifer, (4) any discharge from alluvium to surface water, and (5) to monitor site periphery to make sure no unacceptable contamination is entering or leaving the site. The monitoring program for the 2014 and 2016 Salmon site reporting period is summarized in Table 1.

Baseline data for chlorine-36 (Cl-36) (301,000 year half-life) was collected in 2014. It is being evaluated as a replacement for tritium (12.3 year half-life) after tritium has decayed to low levels.

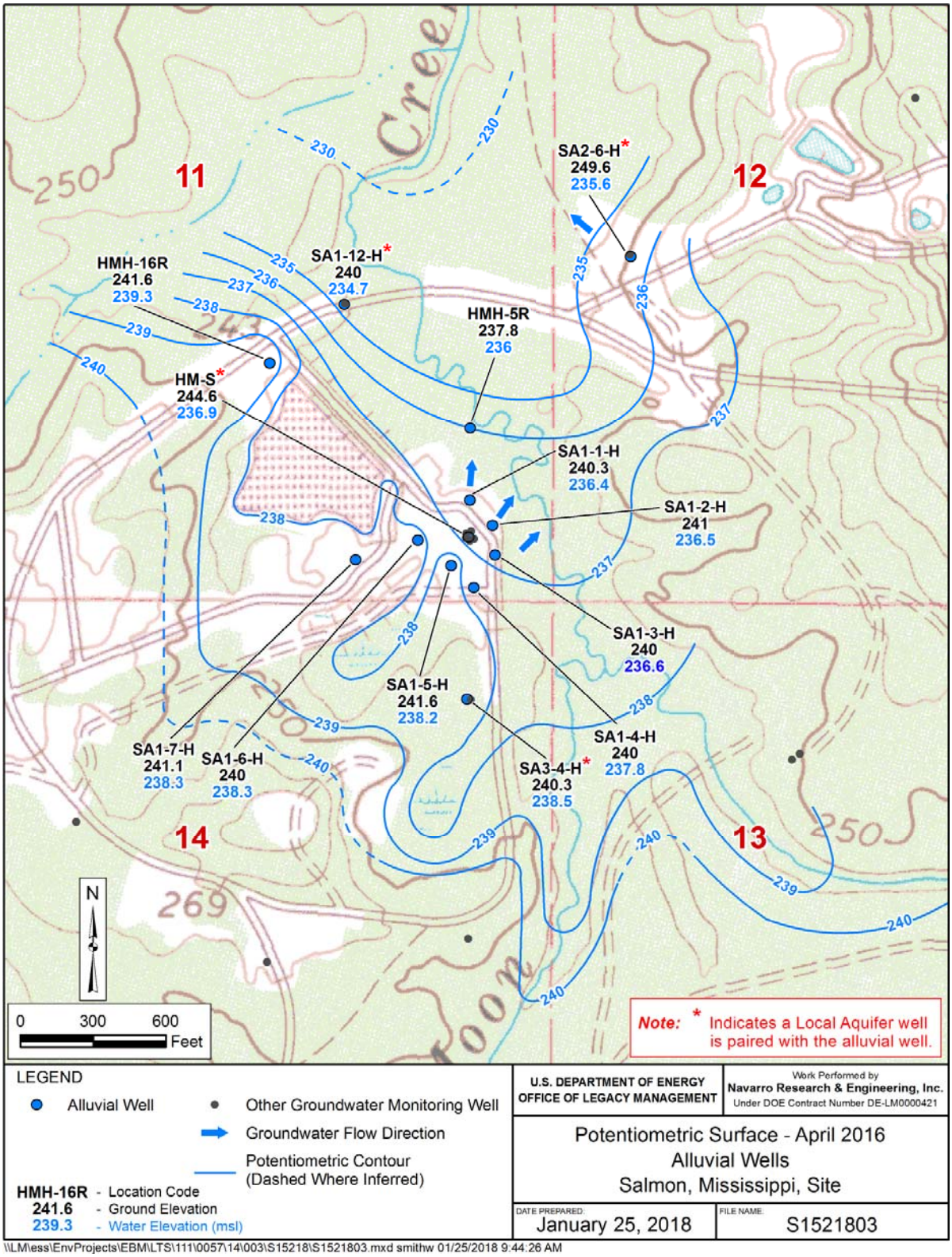


Figure 7. Alluvial Aquifer Potentiometric Surface — April 2016

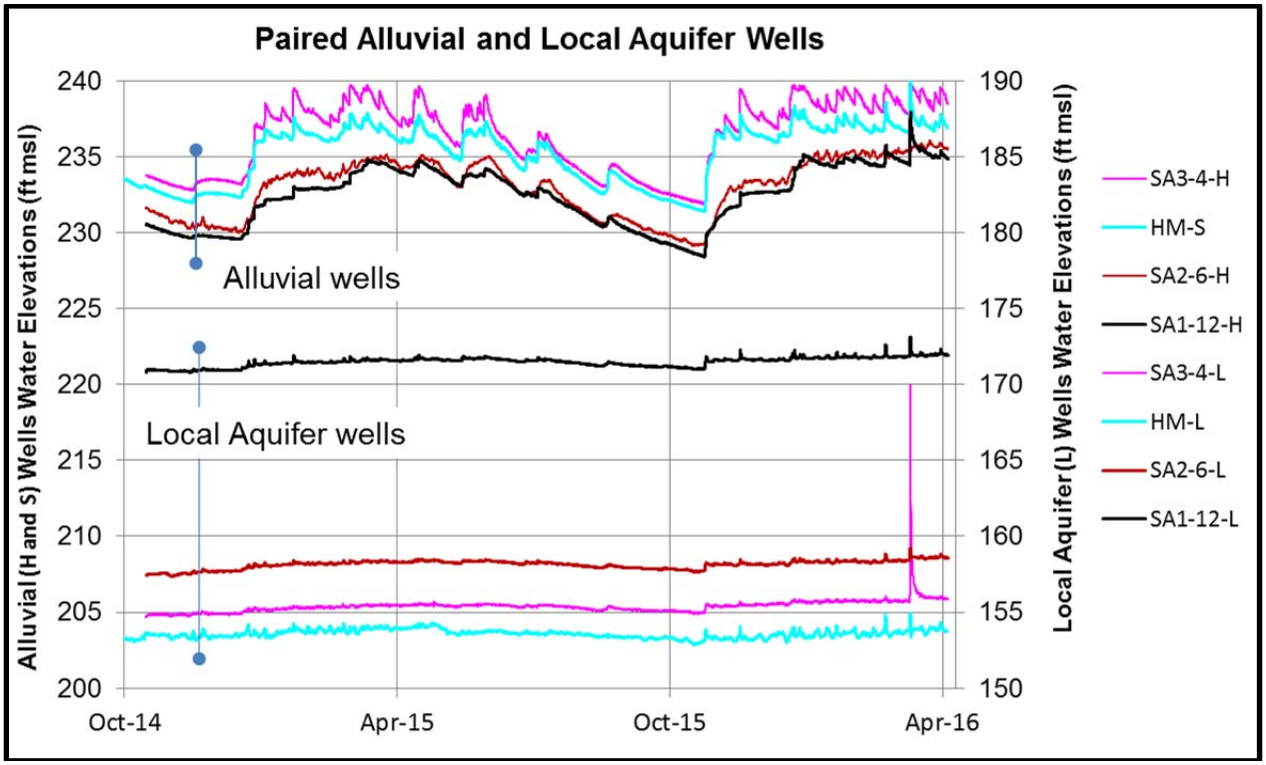


Figure 8. Water Elevations in Alluvial Aquifer (indicated by top blue bar and primary vertical axis) and Local Aquifer Wells (indicated by lower blue bar and secondary vertical axis) at the Same Location

The monitoring approach for the deeper sources is designed to monitor for upward radionuclide migration. The wells at SGZ monitor near the emplacement well and drill-back well for upward migration from the cavity to successively shallower aquifers. The deep wells 1.2 miles southwest of SGZ monitor Aquifer 4 for upward leakage of the radionuclide waste injected in underlying Aquifer 5.

Water levels were measured in all 32 site monitoring wells during the 2014 and 2016 sampling events. These data are supplemented by measurements conducted by the Mississippi Department of Health during quarterly sampling of selected wells. Pressure transducers that collect water levels every 2 hours are installed in 18 site monitoring wells to assess short-term and seasonal variations, interaction between aquifers, and the relative variability of each aquifer. The transducers are installed in the six SGZ wells that are screened in each of the aquifers above the dome, nine Local Aquifer wells, the four Alluvial Aquifer wells paired at locations with Local Aquifer wells, and well SA5-4-4 screened in Aquifer 4. The transducers will be discontinued as their batteries are depleted, but they are expected to continue for several years past 2016, thus providing several years of seasonal variations. The water elevation data are used to confirm horizontal gradients and flow directions within the shallow aquifers and vertical gradients between all site aquifers.

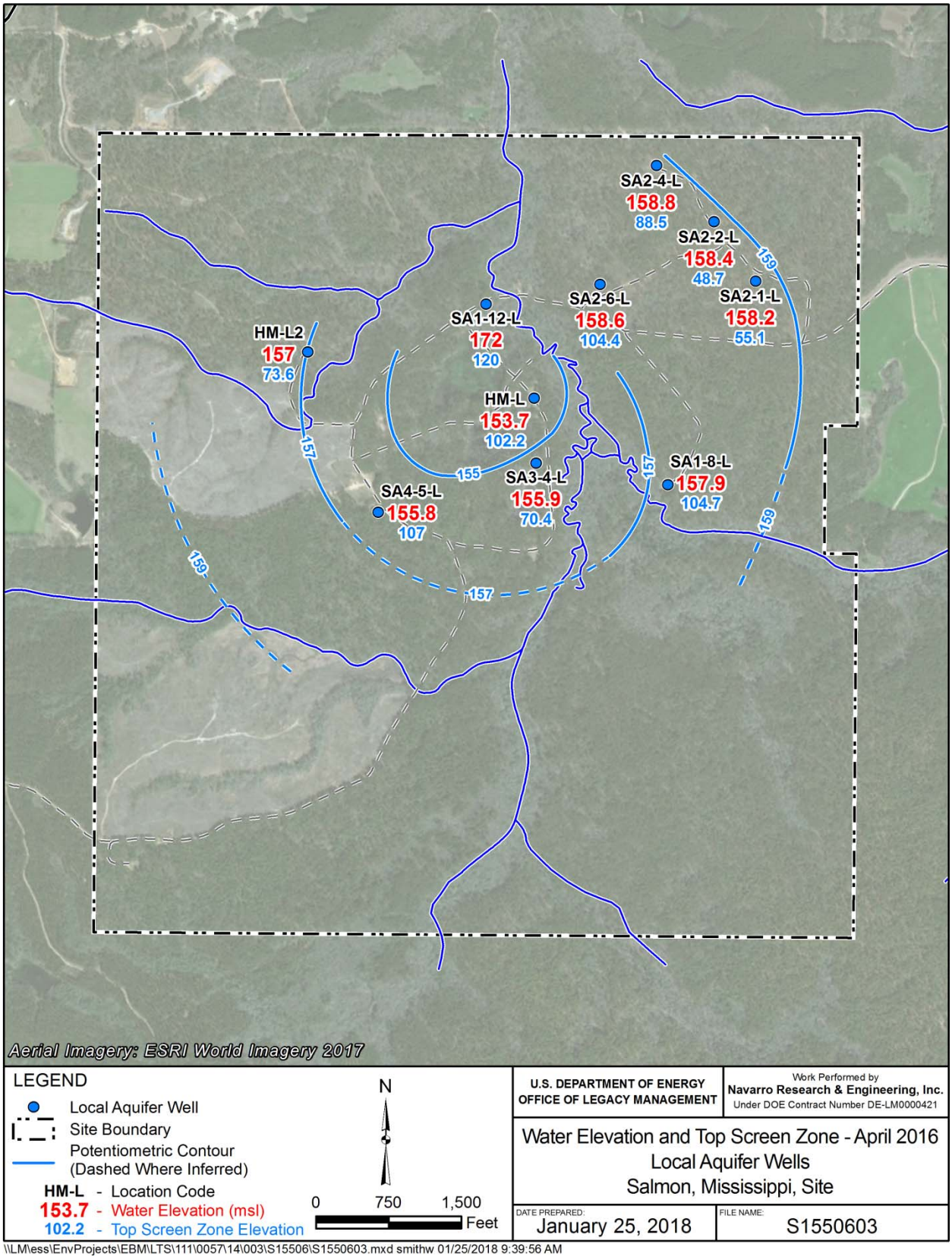


Figure 9. Local Aquifer Water Elevations — April 2016

Table 1. Water Samples Collected at the Salmon, Mississippi, Site 2014 and 2016

Source	Name	Aquifer	Total Depth (ft)	VOC	Metals[a]	Tritium[b]	Cl-36[c]	Water Level[d]
Shallow Sources (Operable Unit 1)	***Wells***							
	SA1-1-H	Alluvial	30	X	X	X		X
	SA1-2-H	Alluvial	30	X	X	X		X
	SA1-3-H	Alluvial	30	X	X	X		X
	SA1-4-H	Alluvial	30	X	X	X		X
	SA1-5-H	Alluvial	30	X	X	X		X
	SA1-6-H	Alluvial	23	X	X	X		X
	SA1-7-H	Alluvial	30	X	X	X		X
	SA1-8-L	Local	195		X	X		XT
	SA1-12-H	Alluvial	30	X	X	X		XT
	SA1-12-L	Local	172	X		X		XT
	SA2-1-L	Local	349		X	X		X
	SA2-2-L	Local	340		X	X		XT
	SA2-4-L	Local	250		X	X		XT
	SA2-6-H	Alluvial	47	X		X		XT
	SA2-6-L	Local	197	X		X		XT
	SA3-4-H	Alluvial	30	X	X	X		XT
	SA3-4-L	Local	197	X		X		XT
	HMH-5R	Alluvial	30	X	X	X		X
	HMH-16R	Alluvial	30	X	X	X		X
	HM-S[e]	Alluvial	30	X	X	X	X	XT
	HM-L[e]	Local	204	X	X	X	X	XT
	HM-L2	Local	200		X	X		XT
	SA4-5-L	Local	180		X	X		XT
	Surface Water Locations							
	HALFMOON CREEK	NA	NA		X	X		NA
	HALFMOONCR KOVERFLOW	NA	NA		X	X		NA
	Pond West of GZ	NA	NA		X	X		NA
	Half Moon Cr Exit	NA	NA		X	X		NA
	HMC-S	NA	NA			X		NA
	HickHCrTSD-East	NA	NA			X		NA
	GC-E (Grantham Cr East)	NA	NA		X	X		NA
Test Cavity (Operable Unit 2)	HM-1	1	415			X	X	XT
	HM-2A	2a	537			X	X	XT
	HM-2B	2b	700			X	X	XT
	HM-3	3a	875		X	X	X	XT
	E-7	Caprock	934			X	X	X

Table 1. Water-Samples Collected at the Salmon, Mississippi, Site 2014-2016 (continued)

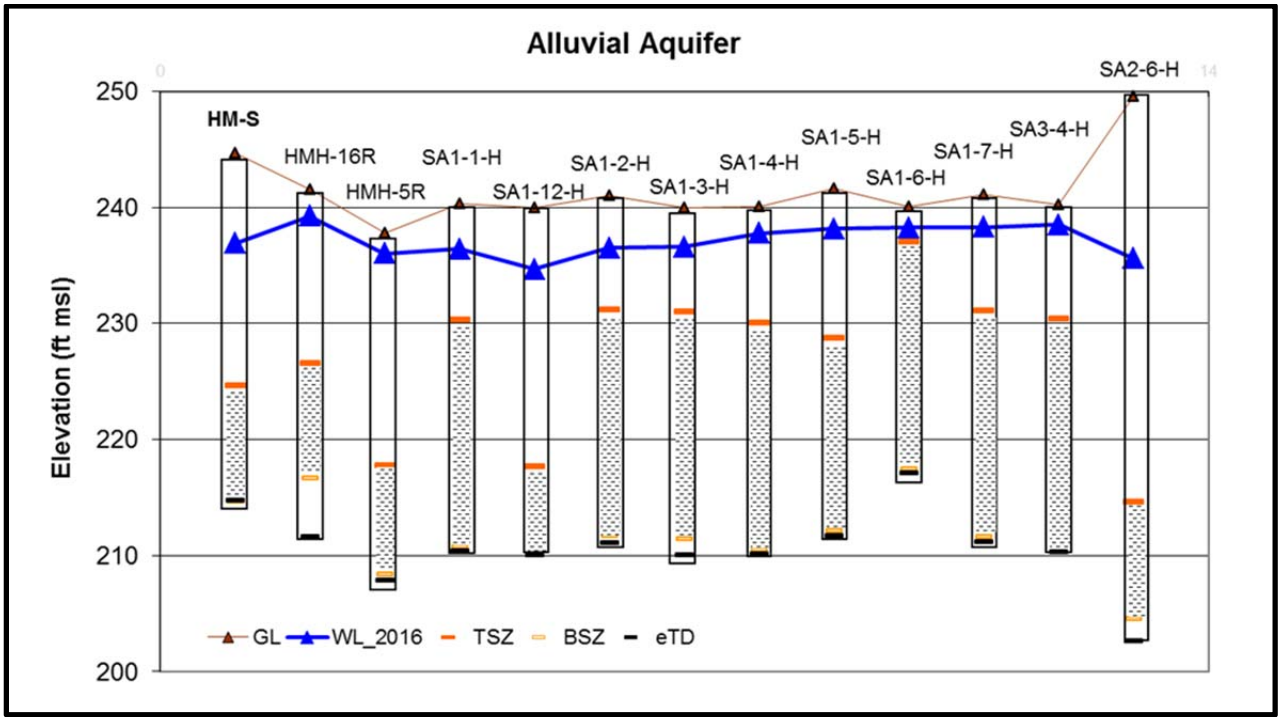
Source	Name	Aquifer	Total Depth (ft)	VOC	Metals[a]	Tritium[b]	Cl-36[c]	Water Level[d]
Aquifer 5 (Operable Unit 3)	SA5-4-4	4	2099			X	X	XT
	SA5-5-4	4	2081			X	X	X
Other	***Wells***							
	SA1-11-3	3a	924		X	X		X
	SA3-11-3	3a	861		X	X		X
	Bx. City WLL #370007-04[f]						X	
	Well North Lumberton[f]						X	
	Purvis Cty Supply WL[f]						X	
	Surface Water Locations							
	REECo Pit (A)	NA	NA		X	X		
	REECo Pit (B)	NA	NA		X	X		
	REECo Pit (C)	NA	NA		X	X		

Notes:
[a] Metals = arsenic, barium, chromium, lead.
[b] Analyze 25% of the tritium samples by the enriched tritium method.
[c] Cl-36 was only sampled in 2014.
[d] "XT" in this column indicates this well has a transducer; data collection will discontinue as transducer batteries are depleted.
[e] Wells HM-S and HM-L are part of the SGZ well cluster, but current contamination is from a shallow surface source.
[f] Construction details of these wells unknown; also sampled for major ions.

4.0 Monitoring Results of Shallow Source Areas

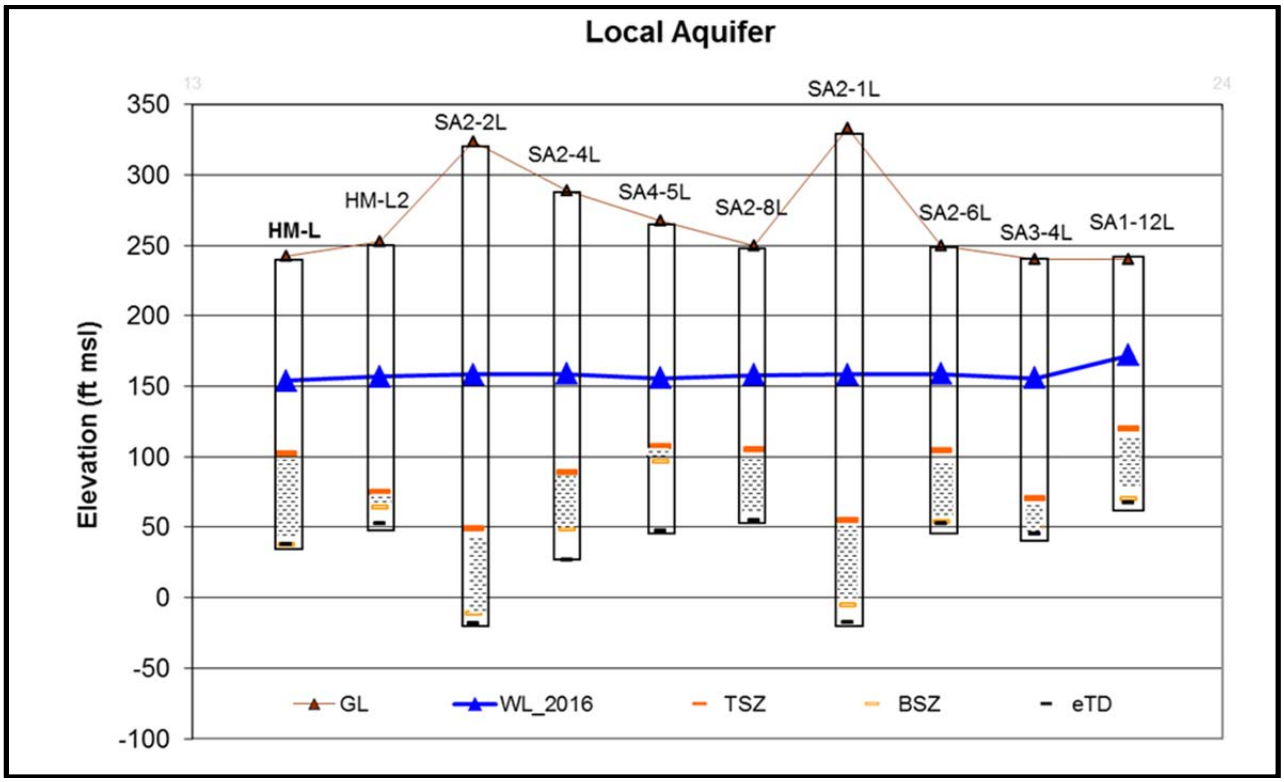
4.1 Groundwater Flow Affecting Shallow Source Areas

The head levels measured in the Alluvial and Local Aquifers in April 2016 (Figure 10 and Figure 11) are consistent with past observations (Figure 12 and Figure 13). Head levels in the Alluvial Aquifer are lowest downstream and near Half Moon Creek (flows to the north). The seasonal head variability for the Alluvial Aquifer can best be seen in the water levels of wells with transducers (Figure 8) rather than the discrete measurement hydrographs that are not monitored frequently enough to capture detailed seasonality. Water levels in all Alluvial Aquifer wells respond similarly to those near SGZ (Figure 12). The transducer data from one of the alluvial wells (HM-S) was included on Figure 12 to show the disparity between infrequent water level readings and the every-2-hour transducer data. Seasonal variability of Local Aquifer head levels (high in the spring and low in the fall) is less pronounced than those of wells screened in the alluvium. All Local Aquifer wells are equipped with transducers except SA2-1-L.



Note: TSZ (top of screen zone), BSZ (bottom of screen zone), eTD (elevation total depth)

Figure 10. Alluvial Aquifer Wells Relative Water Elevations — April 2016



Note: TSZ (top of screen zone), BSZ (bottom of screen zone), eTD (elevation total depth)

Figure 11. Local Aquifer Wells Water Elevations – April 2016

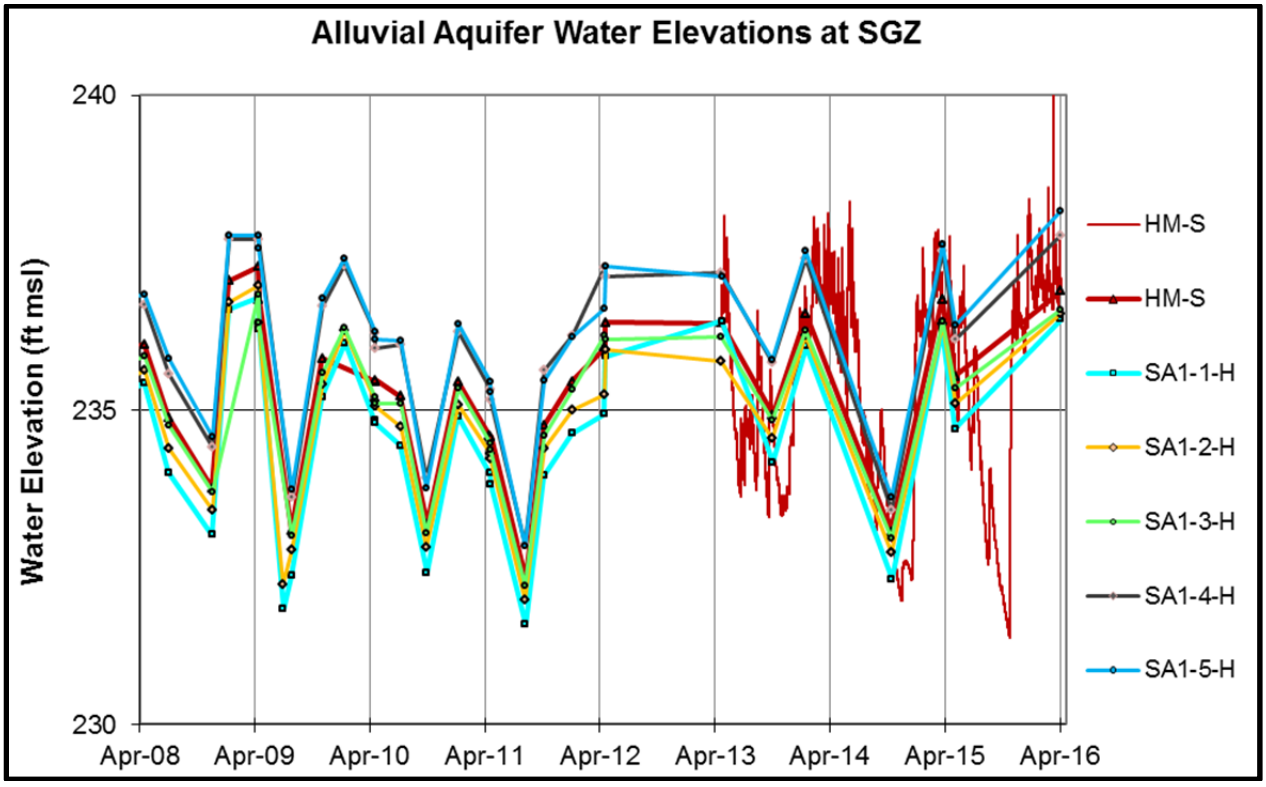


Figure 12. Surface Ground Zero Alluvial Aquifer Wells Water Elevations

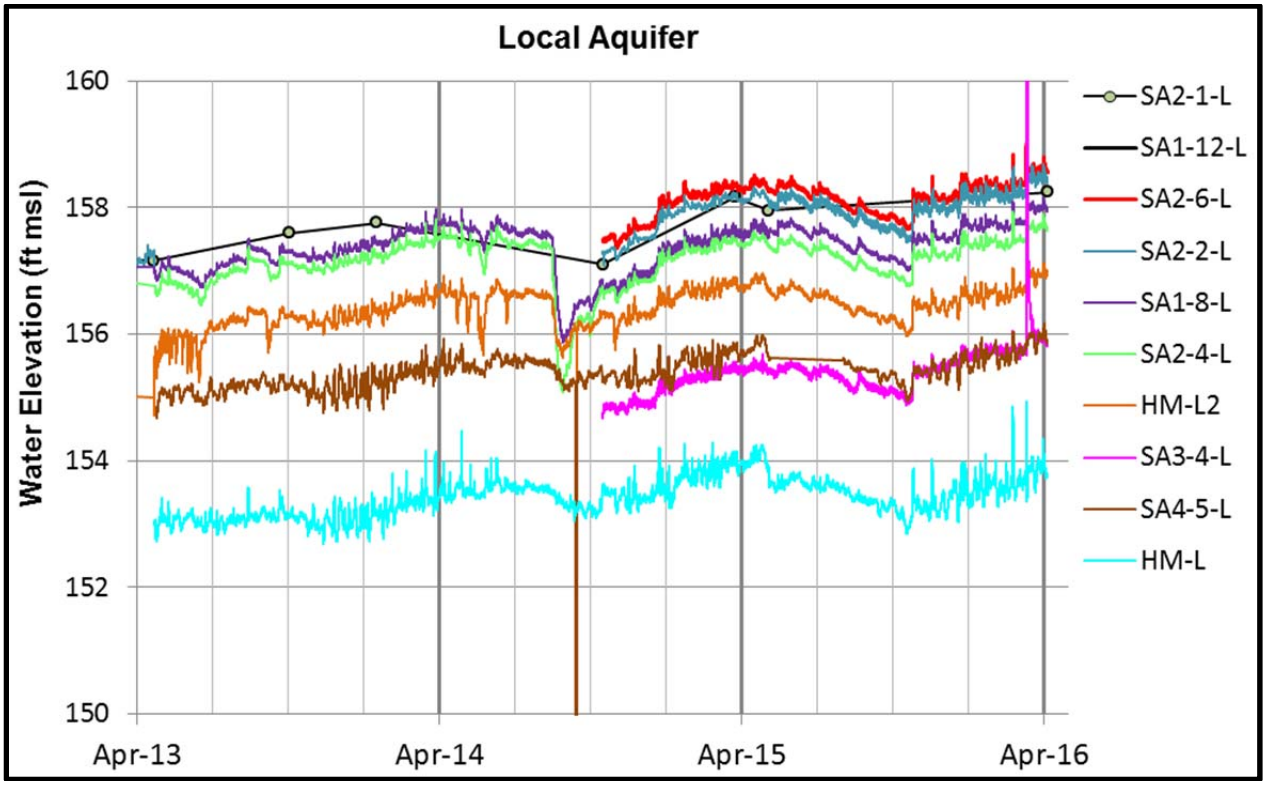


Figure 13. Local Aquifer Wells Water Elevations

Three additional Local Aquifer wells were installed in September 2014 (see Appendix C for details) to increase the data available for flow interpretations. It was suspected that the potential existed for Local Aquifer flow directions to be similar to those in the Alluvial Aquifer, toward Half Moon Creek from the high areas west and east of SGZ, then overall to the north. Results appear to support inward flow at the site toward SGZ. Well HM-L at SGZ continues to have the lowest Local Aquifer water elevation. The well that would have confirmed that there was or was not a horizontal gradient to the north (SA1-12-L) was screened over a shallower sand lens that was better developed at this location than in other Local Aquifer wells (see Appendix C for details). The water elevation at SA1-12-L is 15 to 20 ft higher than what would be expected for a well screened solely in the Local Aquifer (Figure 14). This was unfortunate from a flow perspective but beneficial in that it confirms the presence of additional sand lenses in the confining unit that separates the Alluvial and Local Aquifers, at least north of SGZ and almost directly below Half Moon Creek. It also provides a good analyte monitoring location in a relatively higher stratigraphic position than other Local Aquifer wells.

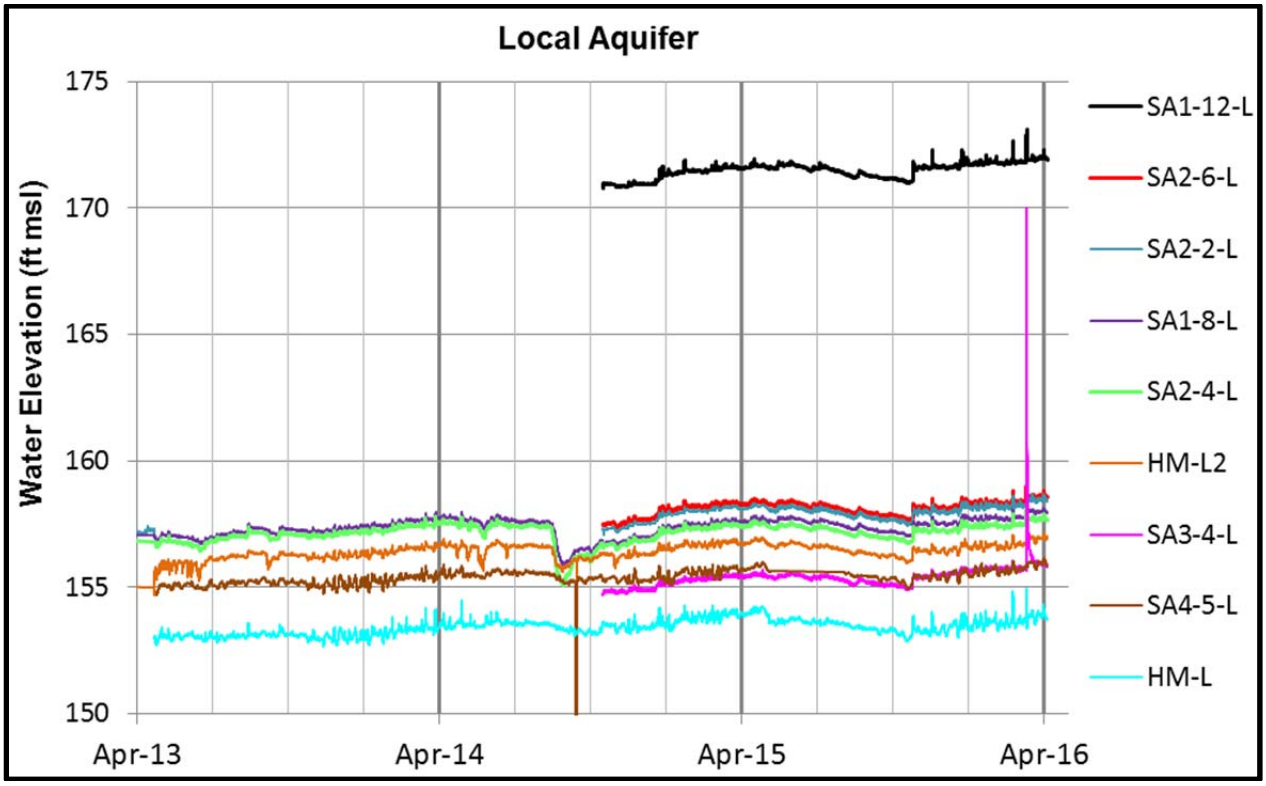


Figure 14. Local Aquifer Wells Water Elevations — Vertical Scale Expanded for SA1-12-L

In addition to recording seasonal variations, transducer data can capture short-term events that would never be detected by long-term water level measurements. It is believed that between 10 a.m. and noon on March 11, 2016, an unusually heavy rain event caused several wells to be overtopped. This can be seen on Figure 14 where the pink line of SA3-4-L spikes from an elevation of about 156 ft to 170 ft. This can better be seen at an expanded scale (Figure 15) that also includes paired alluvial well SA3-4-H. The response in SA3-4-L has the appearance of a slug test, an injection of water followed by a recovery period. The more muted response in SA3-4-H could be the result of the Alluvial Aquifer being more permeable and recovering more quickly. The analyte data do not show unusual changes in concentrations for SA3-4-H or SA3-4-L. There is no record of anyone visiting the site this day, though there is a record of a spike in flow (9000 to 47,000 cubic feet per second) at a Pearl River stream gage 14 miles west of the site.

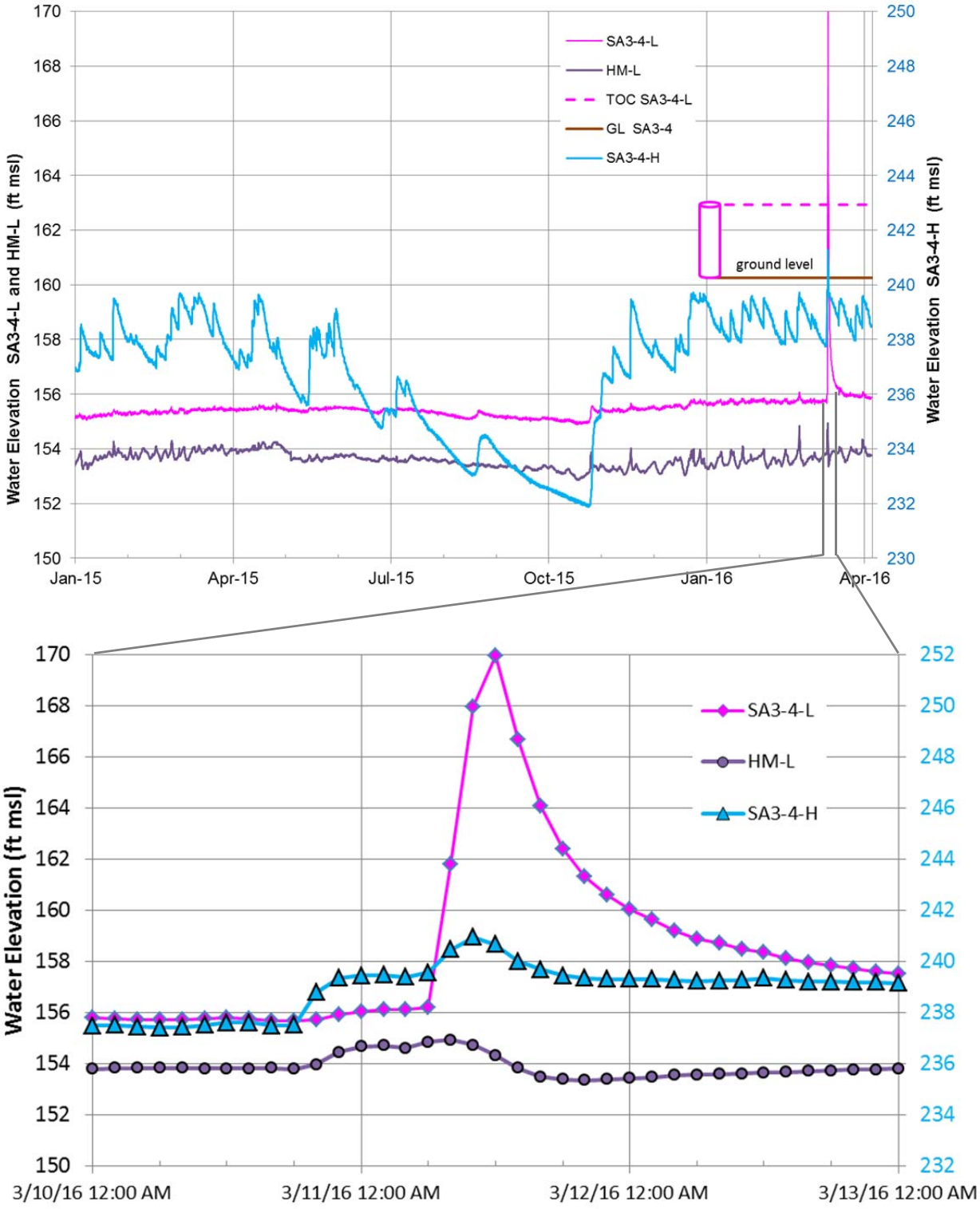
4.2 Analytical Results for the Shallow Source Areas

Tritium and trichloroethene (TCE), along with TCE degradation products *cis*-1,2- dichloroethene (DCE) and vinyl chloride, have been observed in shallow groundwater near SGZ. As described in Section 3.3, all tritium contamination near SGZ is attributed to wastes from drill-back operations and not upward migration from the test cavity. No significant concentrations of tritium or TCE have been detected in groundwater outside the SGZ area or above background levels in surface water with the exception of the Half Moon Creek overflow pond, which is located between the well cluster at SGZ and Half Moon Creek (Figure 2). The primary source is believed to be Mud Pit #2, located adjacent to the highest tritium concentration well SA1-1-H (Figure 17). Mud Pit #2 was used during drill-back operations into the test cavity.

The tritium concentration in precipitation that resulted from atmospheric testing through the early 1960s is plotted for reference on the following Alluvial Aquifer tritium concentration charts (Figure 16, Figure 18, Figure 19, Figure 25, and Figure 27). Data are available at http://www-naweb.iaea.org/napc/ih/IHS_resources_gnip.html, Global Network of Isotopes in Precipitation. Ottawa, Canada, has the longest record and is representative of the Northern Hemisphere. The Ottawa tritium data are presented on Figure 16 along with the results from the highest tritium concentration well at the site (SA1-1-H) and the Half Moon Creek surface water sampling location.

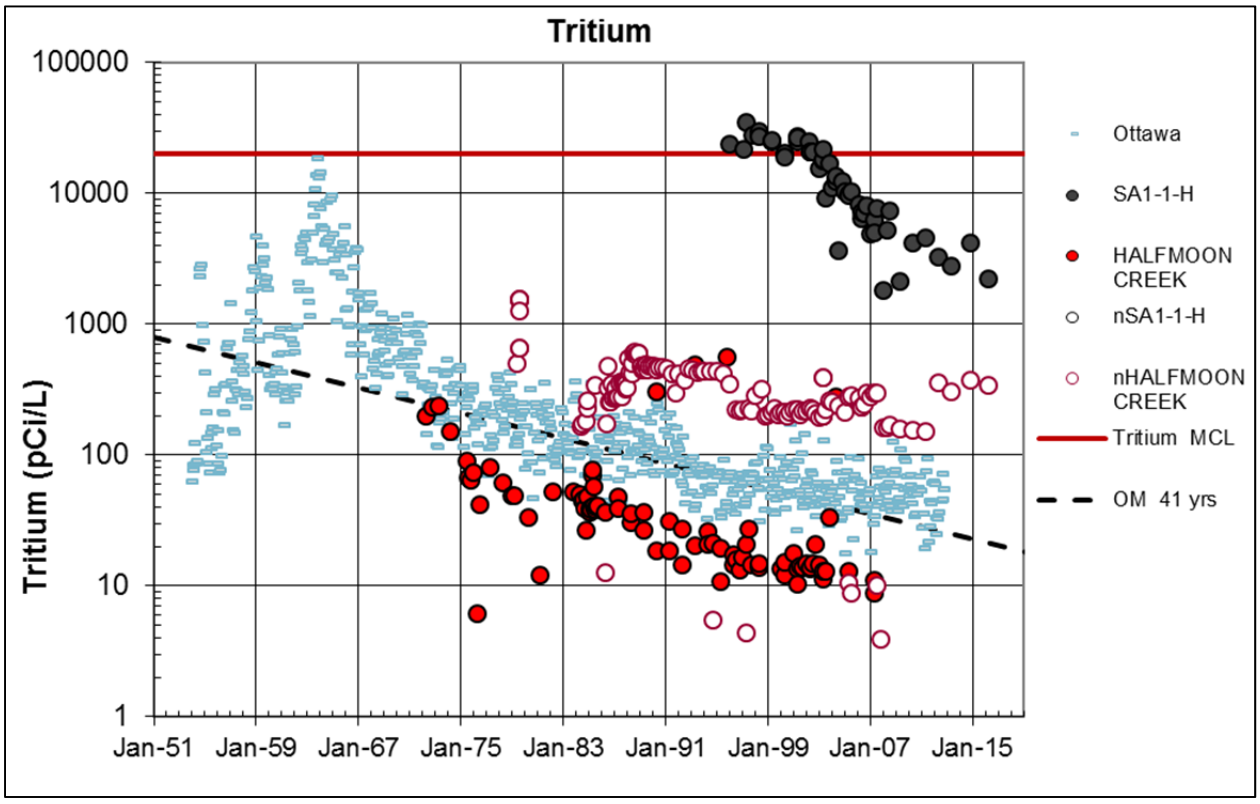
Tritium has been below its 20,000 picocuries per liter (pCi/L)[1] MCL at all site locations since 2004. Locations with elevated concentrations (Figure 18) in the Alluvial Aquifer are declining faster than the rate of decay[2] and are decreasing about an order of magnitude (OM) every 18 years. Tritium naturally decays an OM every 41 years. The accelerated rate of decline is due to dilution by infiltration and horizontally migrating uncontaminated groundwater. Tritium concentrations in the Half Moon Creek overflow pond are also decreasing an OM every 18 years and have been below the standard method detection limit (typically between 300 to 400 pCi/L) since 2007 (Figure 19). Site studies showed that shallow groundwater at SGZ discharged into the overflow pond (DOE 1978). The pond was also used for discharge of purge water from monitoring wells.

[1] Tritium activity will be referred to as tritium concentration throughout the document to be consistent with other analytes.
[2] The half-life of tritium is 12.3 years or a 41 year order-of-magnitude life.



Note:
Cylinder shows the approximate vertical location of SA3-4-L well casing that extends above ground level.

Figure 15. Flood Overtop of SA3-4-L



Note:
Open symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit when present.

Figure 16. Tritium Concentrations — Ottawa, Canada, Precipitation Plotted with Results from Highest Concentration Well at the Site and Half Moon Creek

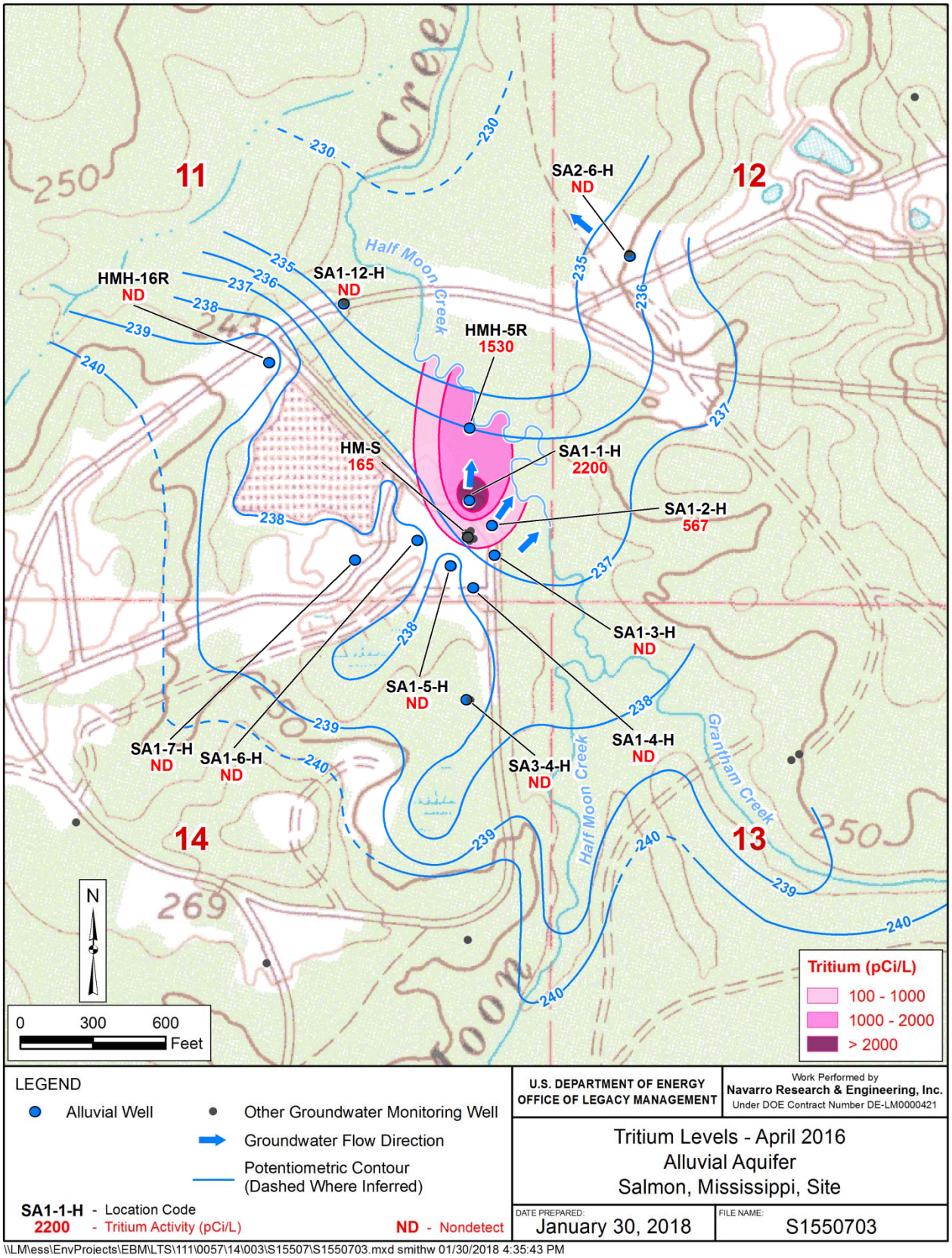
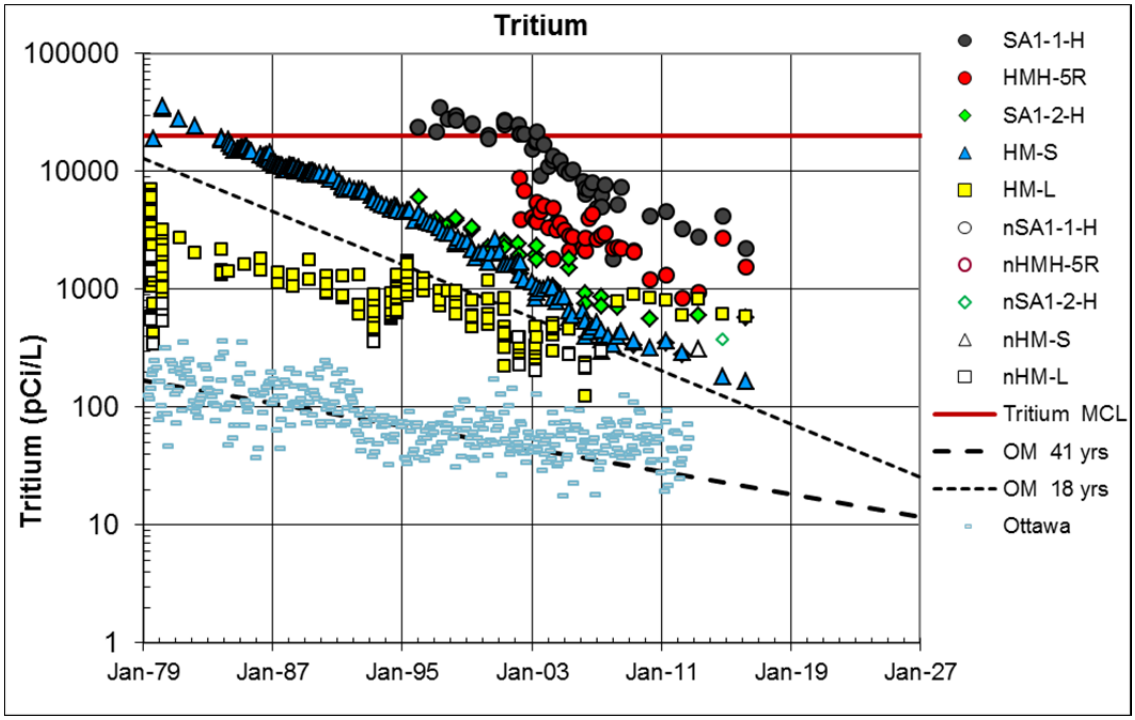
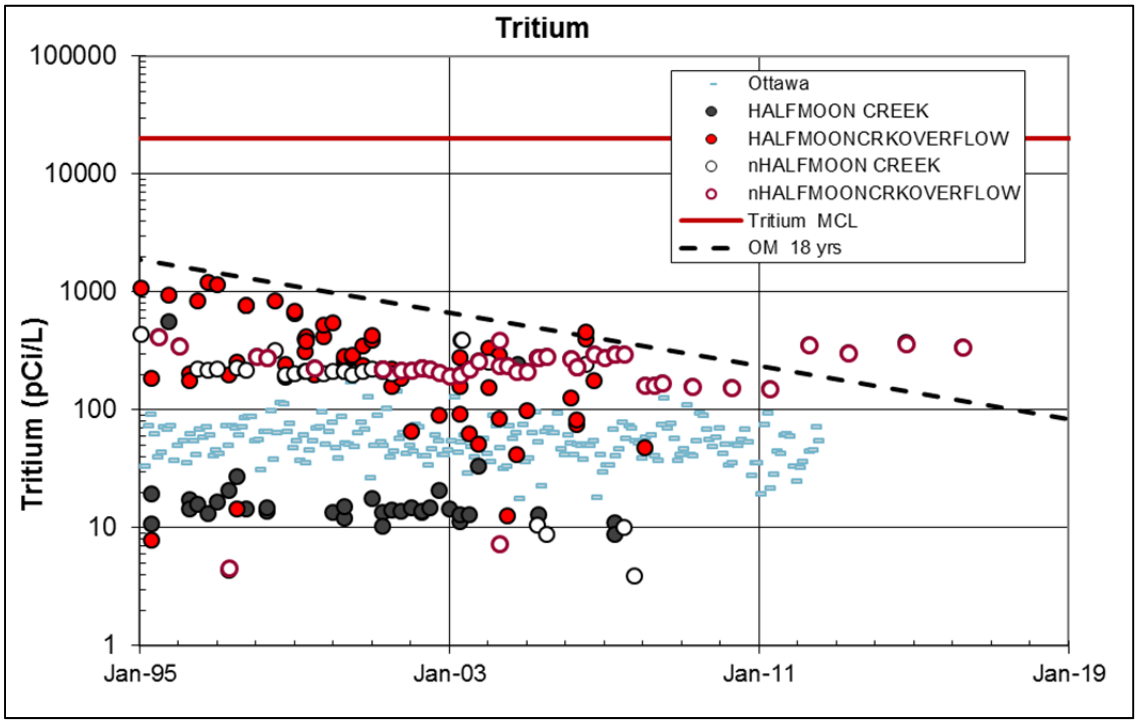


Figure 17. Tritium Concentrations — Alluvial Aquifer



Note:
Open symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit when present.

Figure 18. Wells with Elevated Tritium Concentrations



Note:
Open symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit when present.

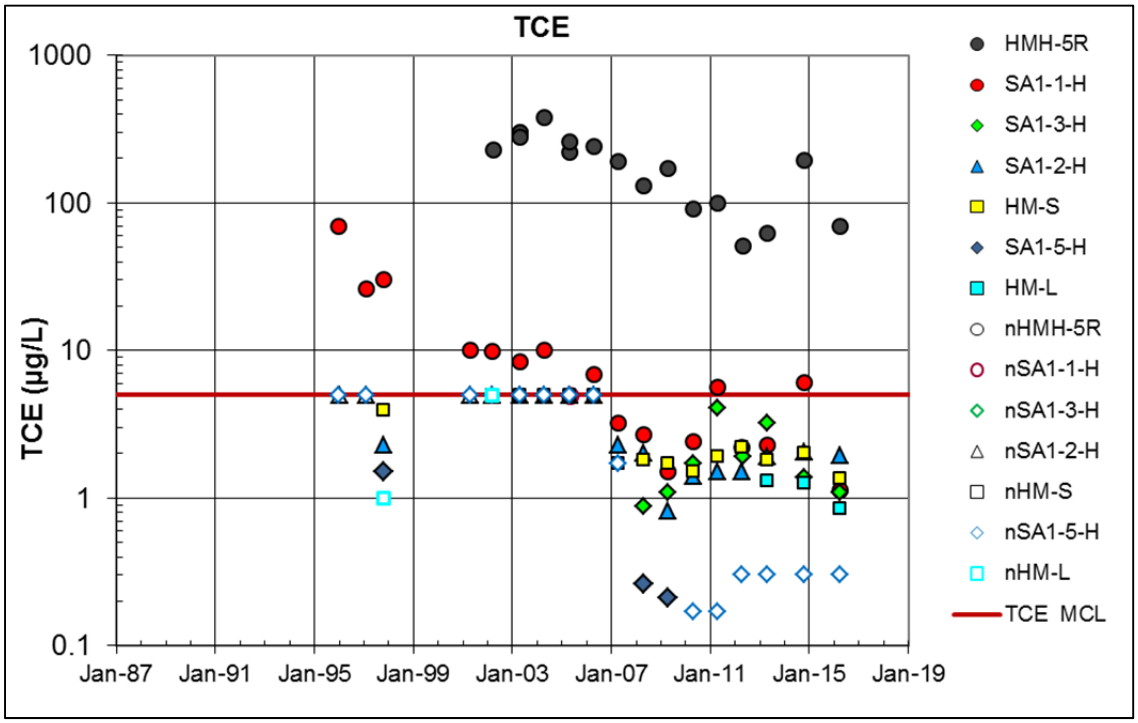
Figure 19. Half Moon Creek Overflow Tritium Concentrations

Tritium is also found in the Local Aquifer at SGZ in well HM-L and is attributed to downward movement from the surficial aquifer, likely due to downward migration during drilling and aquifer testing activities at SGZ. TCE has also been detected at low levels (below 5 micrograms per liter [µg/L] MCL) in Local Aquifer well HM-L at SGZ. The migration path for these contaminants is believed to be along one or several of the numerous boreholes at SGZ. It is also possible that there are unidentified sand lenses in the confining layer separating the Alluvial and Local Aquifers that provide a hydraulic connection between the two units. No tritium (or TCE) has been observed in the aquifers between the test cavity and the Local Aquifer. Appendix A contains analytical data collected in 2014 and 2016 for all the monitoring wells.

TCE is present above its 5 µg/L MCL, near SGZ, in well HMH-5R, at 194 µg/L in 2014 and at 69 µg/L in 2016, (Figure 20). It also appears that TCE concentrations may be seasonally affected (higher concentrations when water levels are lower in the late summer and fall) based on the October 2014 sampling results of HMH-5R and SA1-1-H (Figure 20). On the map of TCE concentrations above the MCL (Figure 21), the small plume surrounding HMH-5R would expand to include SA1-1-H based on the fall 2014 data (a size similar to the plume of elevated tritium concentrations [Figure 17]). TCE, like tritium, is decreasing over time due to degradation and dilution.

The presence of degradation product *cis*-1,2-DCE, which in turn degrades to vinyl chloride, confirms that TCE is degrading and is also being diluted. Concentrations of *cis*-1,2-DCE are occasionally at or above its 70 µg/L MCL in wells HMH-5R and SA1-3-H (Figure 22). Vinyl chloride has been detected in wells SA1-3-H and SA1-2-H (Figure 23).

The contamination in the Alluvial Aquifer is migrating with groundwater flow to Half Moon Creek as evidenced by the tritium and TCE plume maps shown in Figure 17 and Figure 21, respectively. This is effectively attenuating the source areas over time with no measurable impact to the environment. There is no indication that discharge of groundwater to surface water has had an impact on surface water quality. VOCs have not been detected in downstream Half Moon Creek sampling locations, and tritium levels have been consistently below those observed in precipitation (Figure 27). Analyte results from stream samples entering the site are similar to those of the Half Moon Creek location leaving the site; there are no site-related impacts to surface water leaving the site boundary. Analytical data for surface water locations are included in Appendix B.



Note:
Open symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit when present.

Figure 20. TCE Concentrations

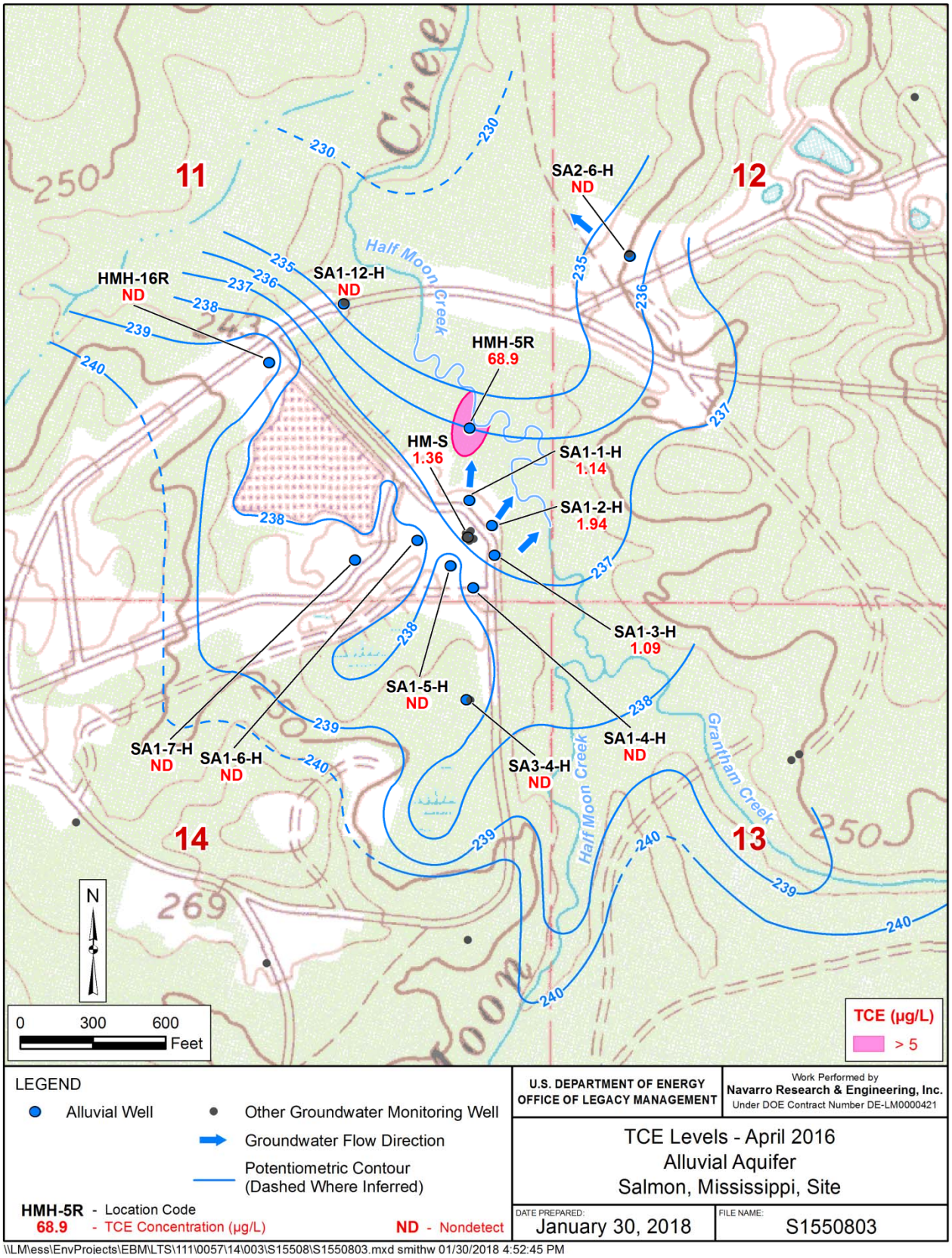
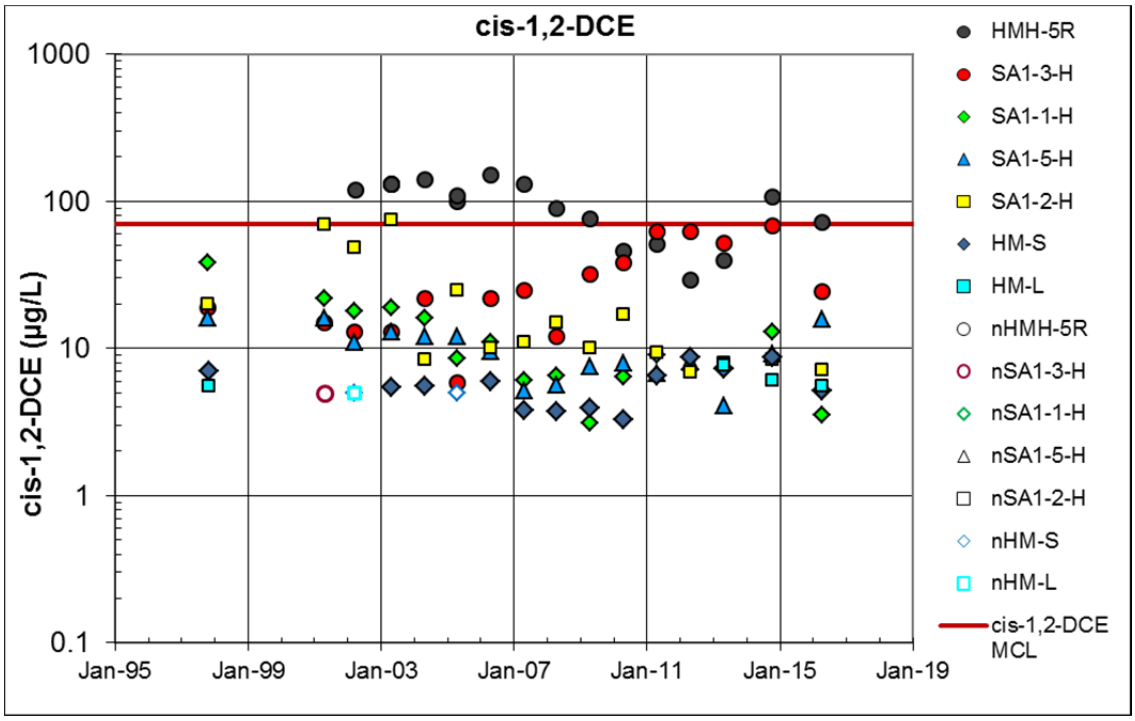
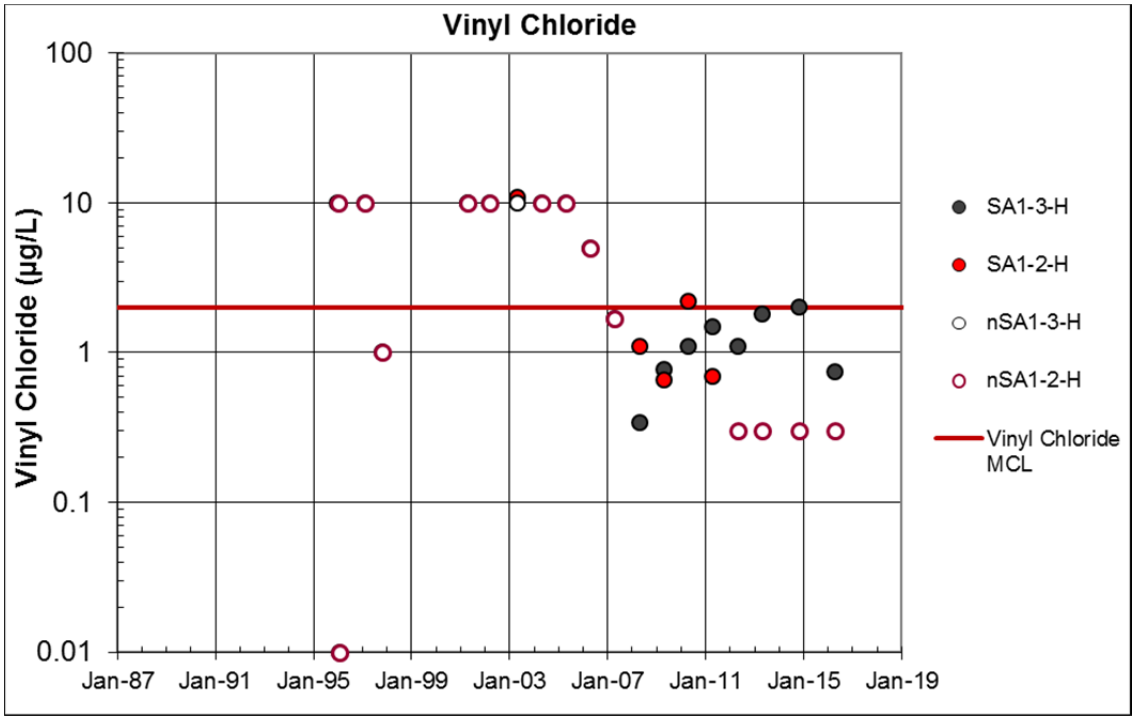


Figure 21. TCE Concentrations — Alluvial Aquifer



Note:
Open symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit when present.

Figure 22. Wells with Elevated cis-1,2-DCE Concentrations



Note:
Open symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit when present.

Figure 23. Wells with Vinyl Chloride Detections

5.0 Monitoring Results of the Test Cavity

5.1 Migration of Test Cavity Contamination

The remaining radionuclides in the test cavity are hydraulically isolated within the salt dome (Figure 4). The only feasible migration pathways are the emplacement and postshot reentry well boreholes (Figure 3). Previous studies have been conducted to evaluate the potential for migration of contaminants from the test cavity. A hydrologic study conducted at the site in the late 1970s investigated the potential interactions of the different aquifers (DOE 1980) overlying the cavity. This involved installing a cluster of six wells at SGZ to monitor each aquifer above the salt dome. As previously stated, results indicated no evidence of upward leakage from the test cavity, and all surficial tritium was attributed to drill-back operations. Subsequent monitoring continues to support this conclusion.

The salt comprising the dome is relatively plastic; over time, it is expected that it will fill the cavity and seal the boreholes, isolating the contamination. As this occurs, there is the potential for contamination to be pushed upward. If this happens, tritium is expected to be the first radionuclide detected because of its mobility and it was produced in significant quantities by the detonation. Samples are collected and analyzed for tritium on a regular basis from the SGZ well cluster (located near the emplacement and reentry boreholes), which has wells screened in Aquifers 1, 2A, 2B, and 3 (wells HM-1, HM-2A, HM-2B, HM-3). Caprock well E-7 is also monitored even though it is 2000 ft southwest of SGZ.

If contamination were to leak from the cavity, the downward vertical gradient would impede upward migration to shallower aquifers (Figure 24). The horizontal gradient in the lowest aquifer, Aquifer 3, is gentle and to the south, toward wells SA3-11-3 (about 1700 ft south of SGZ) and SA1-11-3 (about 1600 ft southeast of SGZ) (Figure 2).

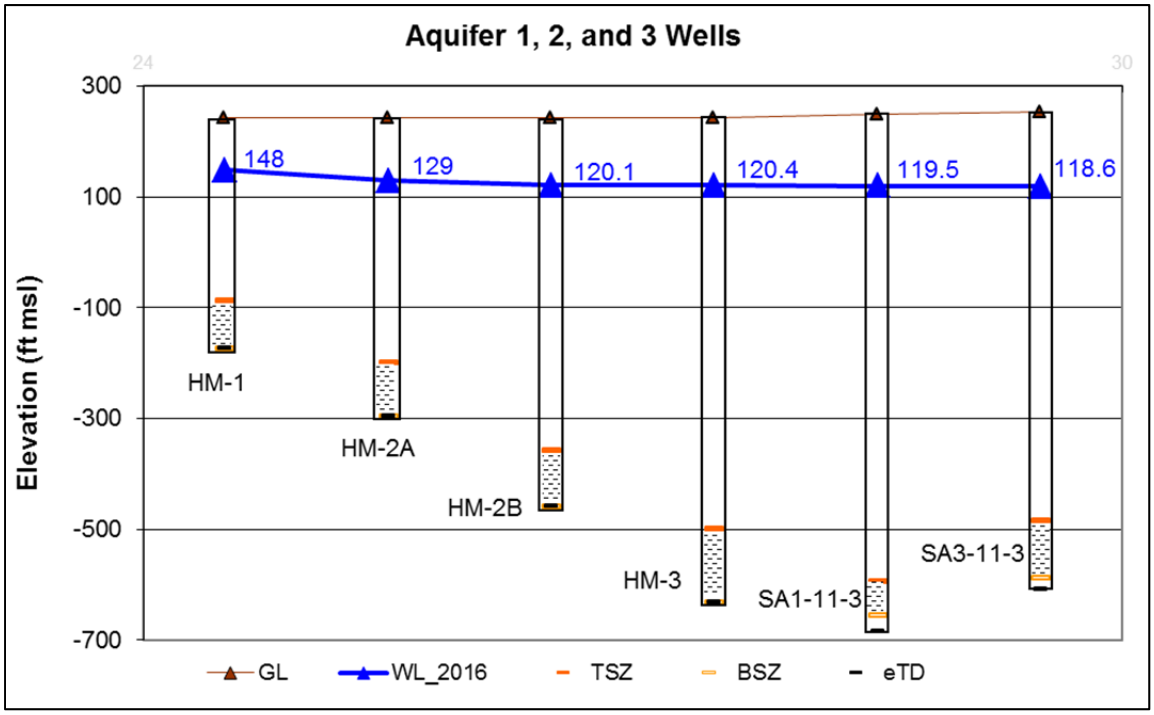


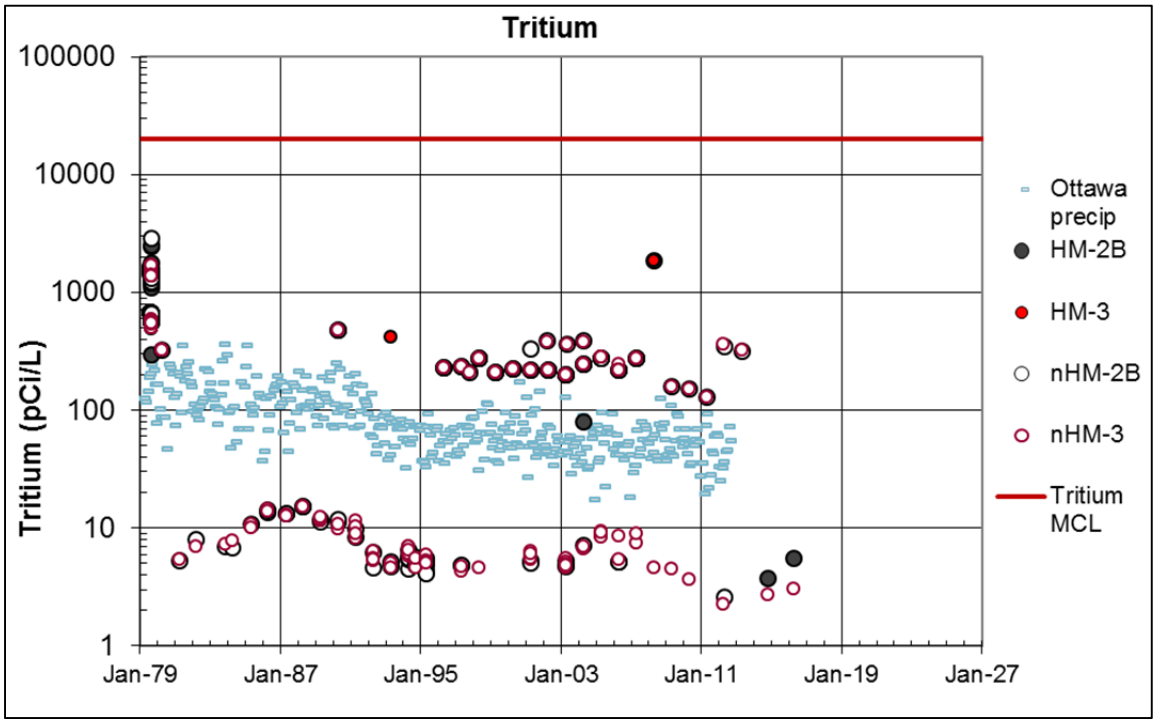
Figure 24. Water Elevations in Aquifer 1, 2, and 3 Wells – April 2016

5.2 Analytical Results for Test Cavity Monitoring

Tritium monitoring was conducted at five monitoring wells above the dome (HM-L, HM-1, HM-2A, HM-2B, HM-3) to detect leakage from the test cavity. Chlorine-36 analysis for select wells (identified in Table 1) was initiated in 2013 to determine if it could be useful as an early indicator of radionuclide migration from the test cavity after tritium produced by the detonation has decayed to low levels.

Tritium levels are typically below the detection limit, even using the enriched method (detection limit of 5 to 10 pCi/L), in all deeper aquifer well samples. Tritium is naturally occurring at less than 5 pCi/L (IAEA 2017). Water in the deeper aquifers predates atmospheric test–related tritium in precipitation. Tritium in those aquifers was introduced by drilling. Tritium was observed at elevated levels in samples collected in April 2008 from wells HM-2b (Aquifer 2b) and HM-3 (Aquifer 3b). The results are believed to be in error because analysis of duplicate samples collected by the Mississippi State Department of Health were all below the detection limit, which is consistent with historical sample results (Figure 25). The results for well HM-3 and HM-2b are presented on Figure 25 to illustrate the low levels of tritium in the deeper aquifers. Tritium results in horizontally downgradient Aquifer 3 wells (SA1-11-3 and SA3-11-3) have all been below detection (Figure 26).

Select samples at the Salmon site are being analyzed for Cl-36 (301,000 year half-life) as a possible long-term replacement for tritium (12.3 year half-life) as the indicator for contaminant migration from the test cavity. Results will be used to establish a baseline and will be evaluated as a potential substitute for tritium in the future.



Note:
Open symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit when present.

Figure 25. Deep Aquifer Wells with Tritium Detections

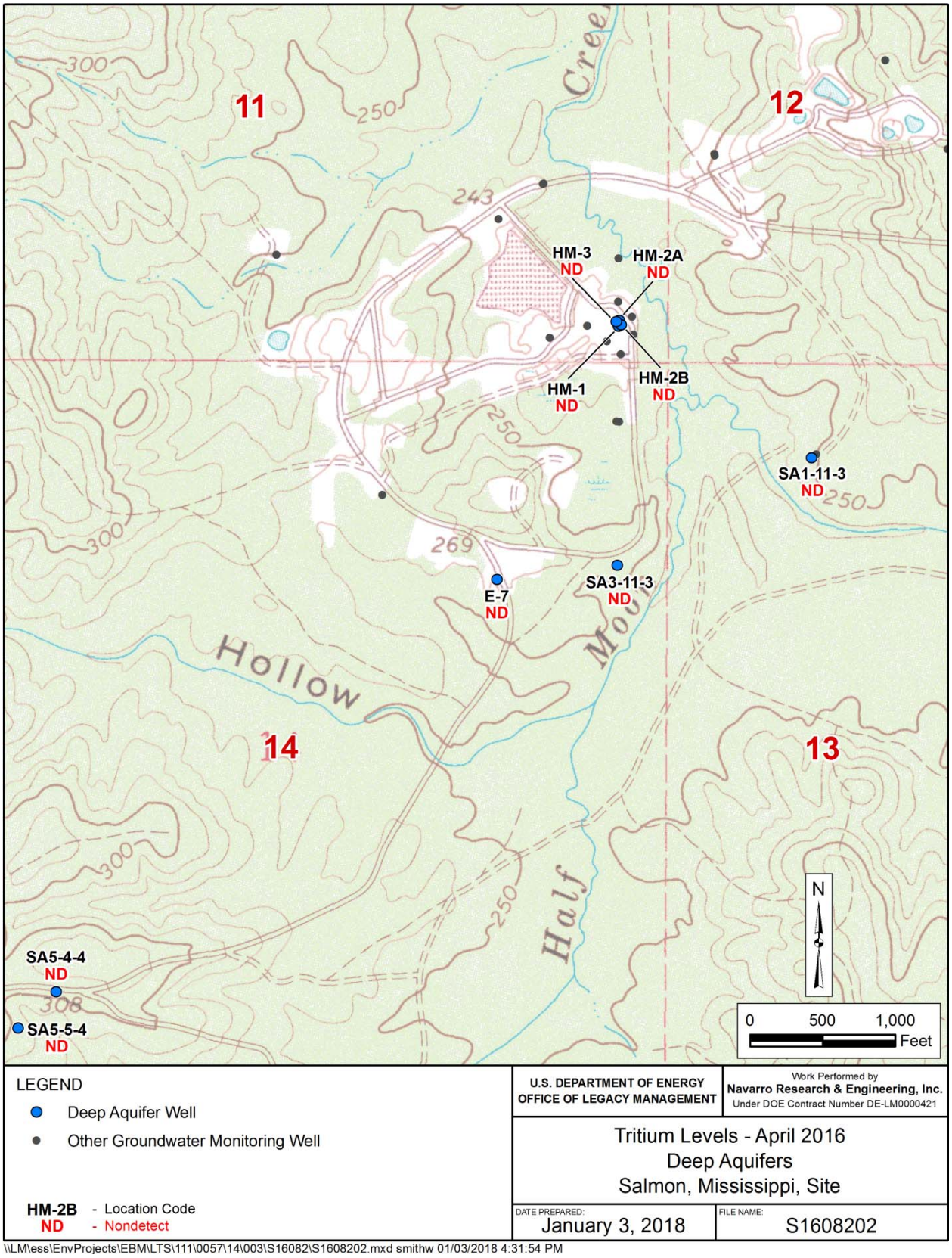


Figure 26. Tritium in Deep Wells

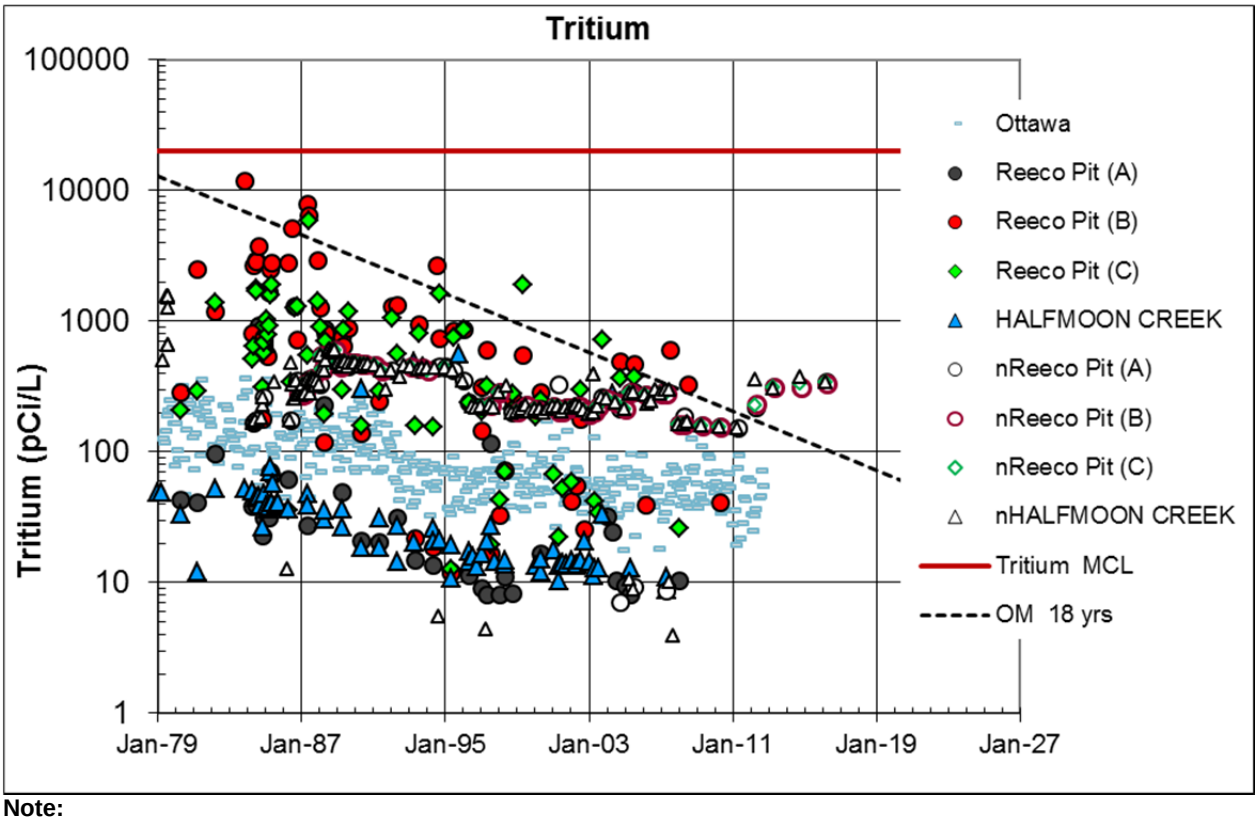
6.0 Monitoring Results of the Aquifer 5 Waste Injection

Waste materials injected into Aquifer 5 for disposal are of the same nature as the materials in the test cavity. The injection well was plugged in 1971, and there are no Aquifer 5 monitoring wells. Two wells in overlying Aquifer 4 are monitored for upward migration of tritium and chlorine-36, a monitoring approach similar to that of the test cavity. Similar to Cl-36 ratios discussed above, tritium data provide no evidence of upward contaminant movement from Aquifer 5 into overlying Aquifer 4. The relative position of Aquifer 5, Aquifer 4, and the dome can be seen on Figure 4.

7.0 Other Site Monitoring

7.1 REECo Pits

Elevated tritium concentrations have also been observed in seeps near the REECo pits area, on the ridge northeast of Half Moon Creek (Figure 2). This area is where former waste burial disposal pits used by Reynolds Electrical & Engineering Company, Inc. (REECo) during site remediation are located. The seeps occur near where the hillslope exposes the contact of the confining unit and the overlying saturated Citronelle Formation Aquifer (Figure 5). The tritium levels in the REECo pits seeps have been below the 20,000 pCi/L MCL since 1979 and have been declining at a rate of an order of magnitude every 18 years (Figure 27). Sample results have been below detection using the conventional method of analysis for the past 6 years.



Note:
Open symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit, when present.

Figure 27. Tritium Concentrations in the REECo Pits

Two of the wells installed for additional hydraulic control in 2014 (SA2-6-H and SA2-6-L) are downslope and downgradient from the REECo pits (Figure 2). The sample results (October 2014 and April 2016) from these wells have been below the enriched method detection limit except for one result (October 17, 2014) of 4.6 pCi/L (Appendix A).

7.2 Metals

Elevated metals concentrations were identified in both shallow soils and groundwater during the remedial investigation that occurred in the early 1990s (DOE 1999). Wells with one or more metals exceeding their respective MCLs since the site transitioned to LM in 2006 are summarized in Table 2.

Table 2. Summary of Wells Exceeding an MCL for Metals

Well	Aquifer	Constituent exceeding MCL	Year(s) exceeded
SA1-3-H	Alluvial	As	2008–2016
SA1-6-H	Alluvial	As, Pb[a]	2007
SA1-7-H	Alluvial	As	2010–2016
HM-3	Aquifer 3b	Cr	2007–2014
SA2-1-L	Local	As	2007, 2016
SA4-5-L	Local	Ba	2008–2013

[a] Benchmark for Pb is an action level, not an MCL.

Although arsenic was the most common metal with elevated concentrations, no site-related source was identified for arsenic. No records indicate that DOE used arsenic, or chemicals containing arsenic, in significant quantities at the site. Sulfur deposits in the caprock have been solution-mined in the past from several wells at the site. Major constituents of the caprock are anhydrite and gypsum (calcium sulfate and hydrated calcium sulfate). Arsenic is often associated with sulfides, as are several other metals observed at the site (e.g., Pb, zinc). It was concluded during the site remedial investigation that these constituents are likely naturally occurring (DOE 1999). Despite this conclusion, monitoring for these constituents has continued.

The distribution of arsenic detected in soil and water samples since the initial investigation conducted in the 1990s does not indicate there are distinct sources or plumes at the site. For instance, some of the elevated concentrations observed in Local Aquifer wells are on the ridge northeast of SGZ, on the opposite side of Half Moon Creek (Figure 28).

In 2014 and 2016, metals (As, Ba, Cr, Pb) were analyzed in samples collected from the Alluvial Aquifer wells, the Local Aquifer wells, surface locations, and Aquifer 3a. These metals were chosen because they had been detected more frequently or have exceeded their MCL in recent years. 2014 and 2016 monitoring results are discussed in this section.

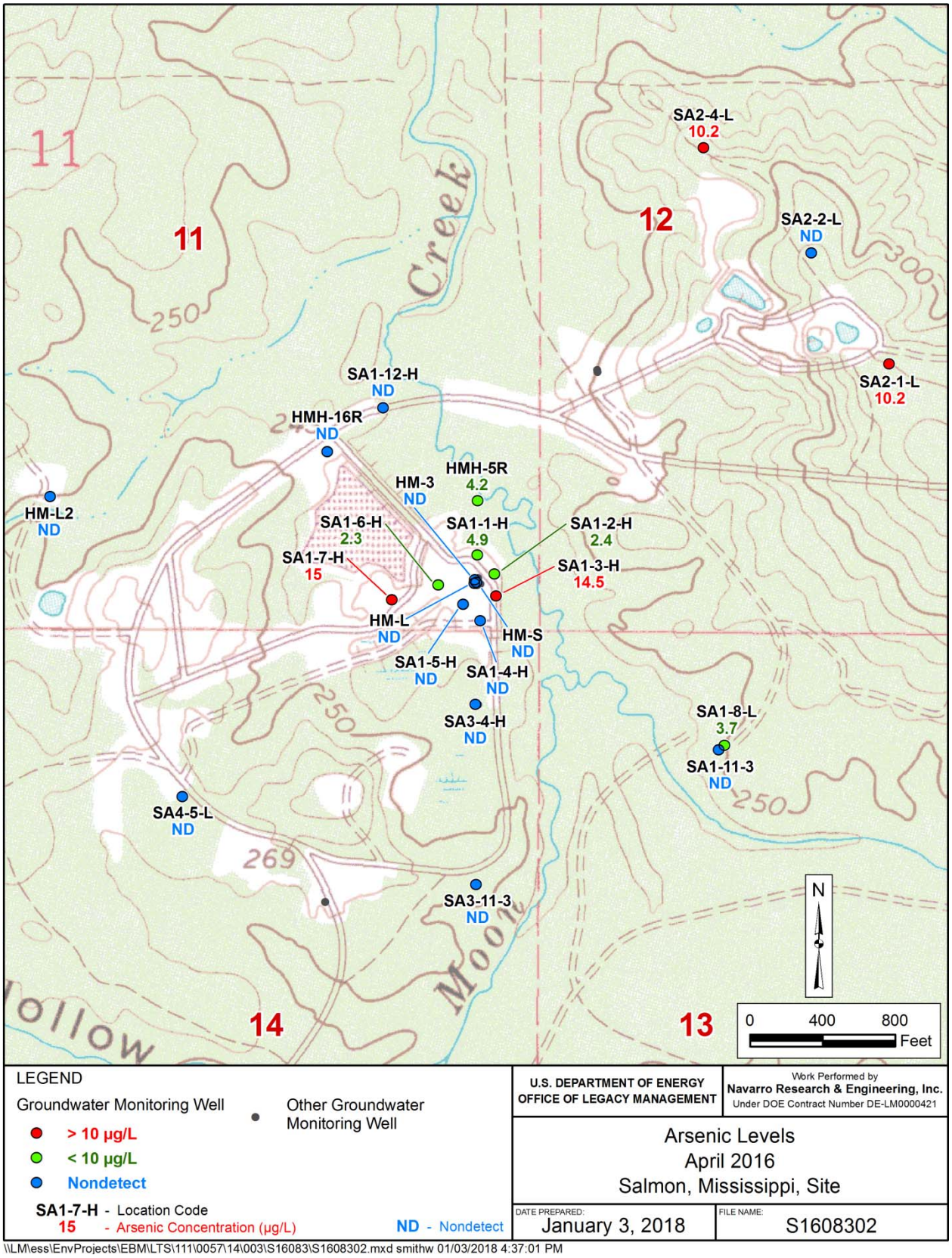
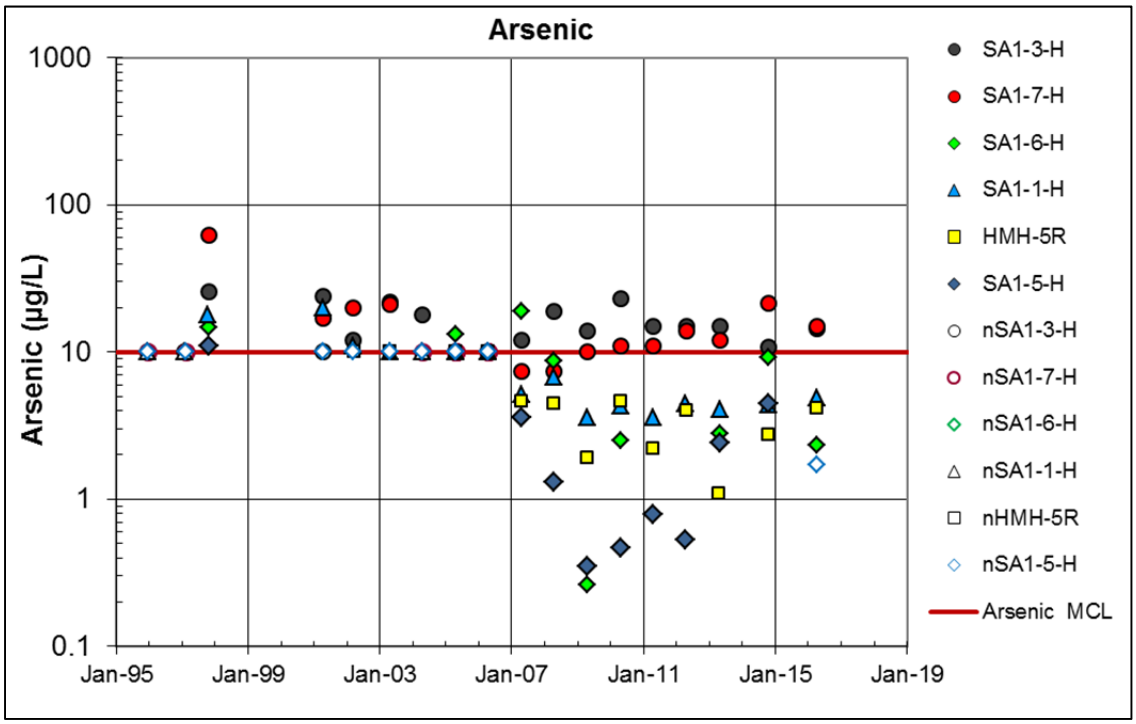


Figure 28. Arsenic Distribution in Groundwater

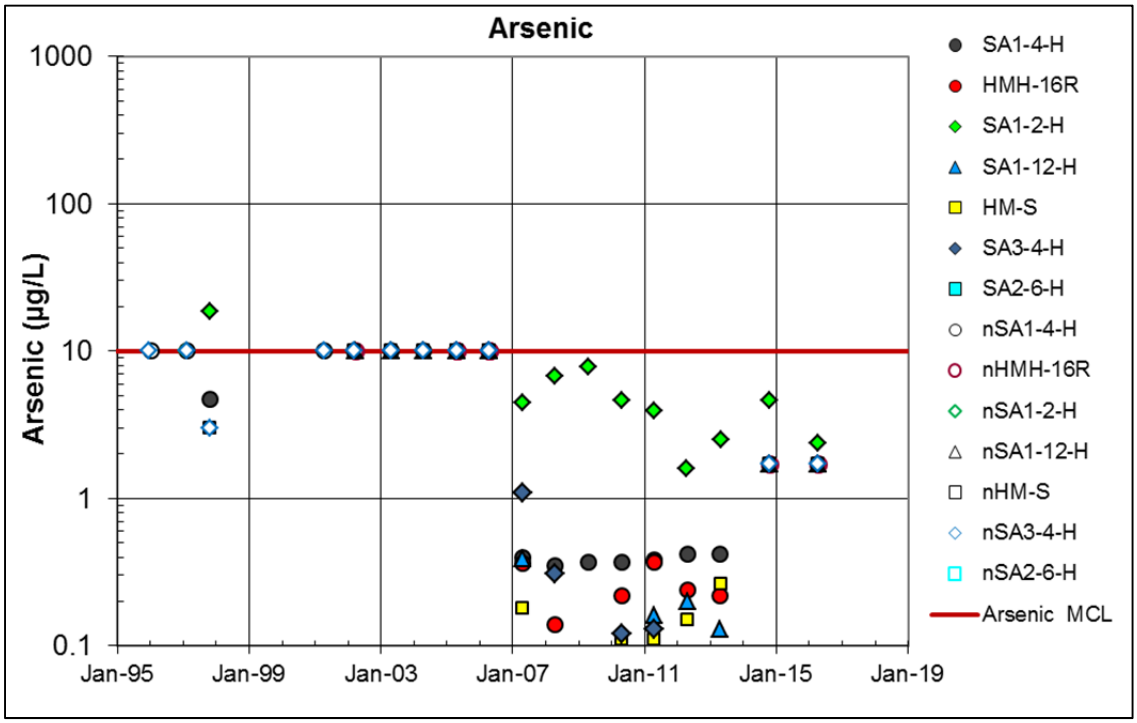
Several alluvial wells have arsenic concentrations that fluctuate at levels slightly above the MCL (e.g., SA1-3-H, SA1-7H, SA1-6-H) (Figure 29 and Figure 30). Arsenic concentrations from these wells do not display increasing or decreasing trends but appear to be relatively stable. LM took over the site in 2007 and continued collecting environmental samples previously collected by the U.S. Environmental Protection Agency. The apparent shifts in concentration for some constituents and wells are likely due to changes in sampling techniques and analytical laboratories. Although arsenic above the MCL was observed during the remedial investigation for some other alluvial wells, concentrations for most of these have remained below the MCL for the past decade. Arsenic concentrations in groundwater samples collected from monitor wells SA2-1-L and SA2-4-L completed in the Local Aquifer have consistently been around the MCL (Figure 31). Arsenic concentrations in ground water samples collected from the other Local Aquifer and deeper aquifer wells have generally been detected at levels well below the MCL (Figure 32). Surface water concentrations of arsenic are also very low (Figure 33).

Chromium has been consistently observed at concentrations around the MCL for one site well (HM-3) (Figure 34). Barium levels for a different well (SA4-5-L) (Figure 37) have also been observed around its MCL (SA4-5-L is near a storage area). Similar to arsenic, no increasing or decreasing trends or other discernible patterns are noted for Cr or Ba (Figure 34 through Figure 37). No specific sources have been identified for these constituents, and no elevated concentrations have been observed in any other wells. These metals are commonly associated with drilling wastes but also occur naturally. It is possible that the Cr associated with well HM-3 may be derived from the well casing, although Cr has also been attributed to chrome lignosulfonate which is a known additive to drilling muds. Barite is a common additive to drilling mud and has been identified as a possible source of the elevated Ba in well SA4-5-L.



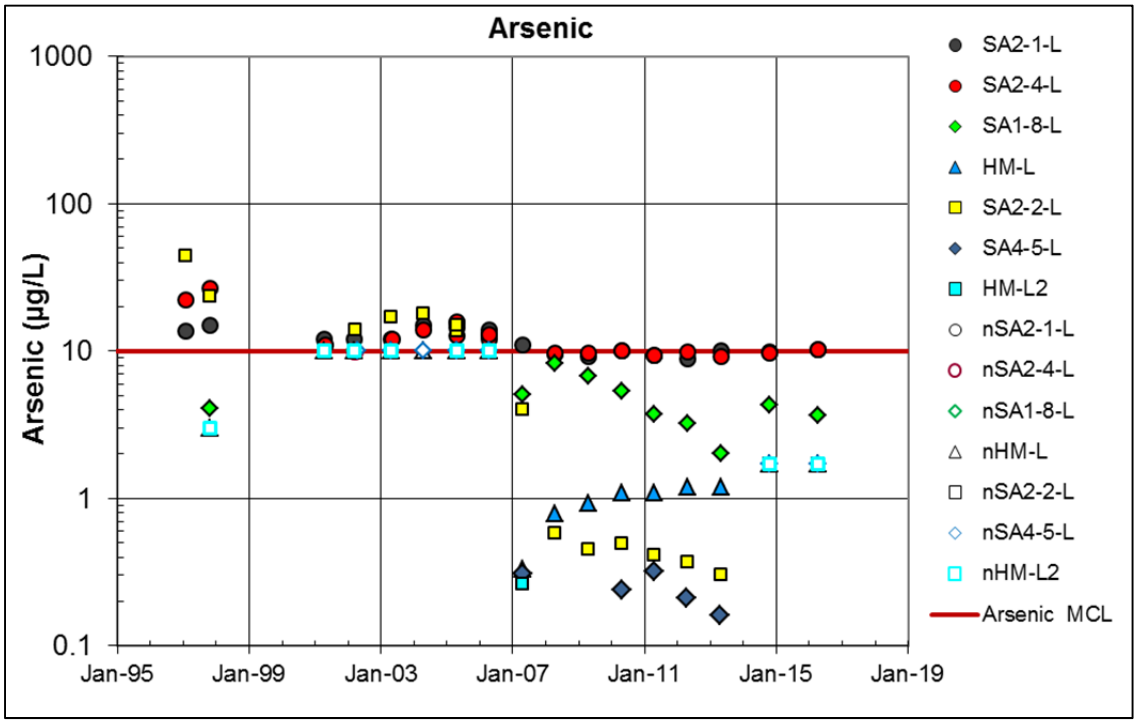
Note:
Symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit.

Figure 29. Alluvial Aquifer Wells Time-Concentration Plot of Wells with Higher Arsenic Concentrations



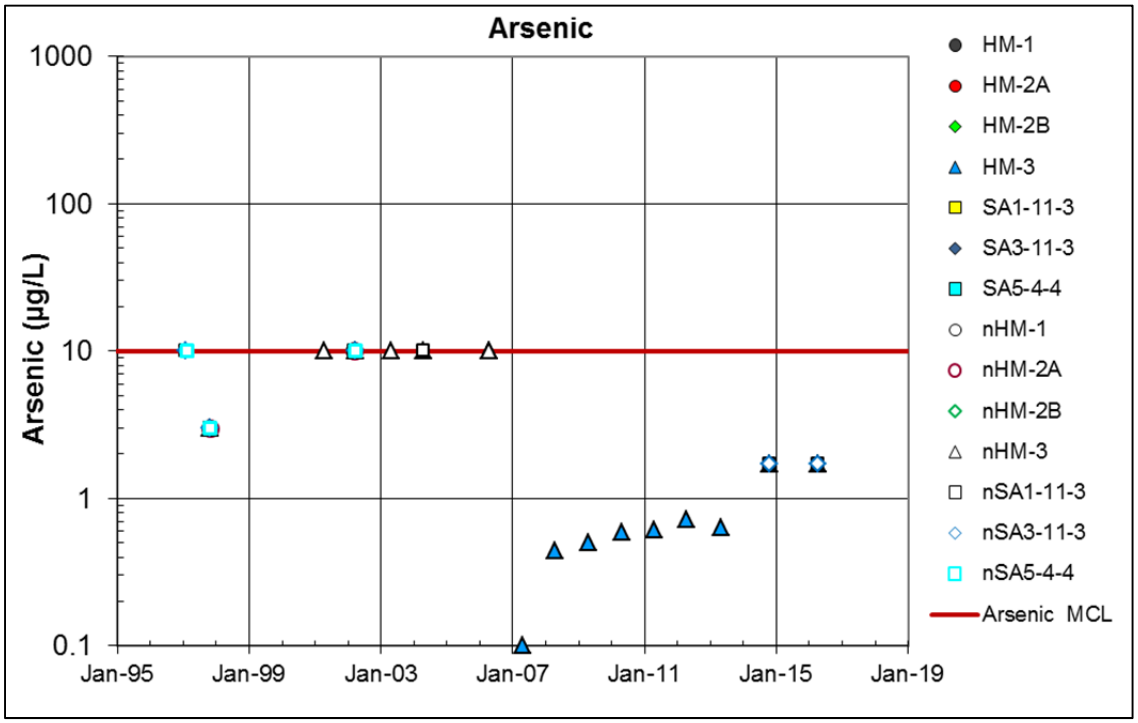
Note:
Open symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit when present.

Figure 30. Alluvial Aquifer Wells Time-Concentration Plot of Wells with Lower Arsenic Concentrations



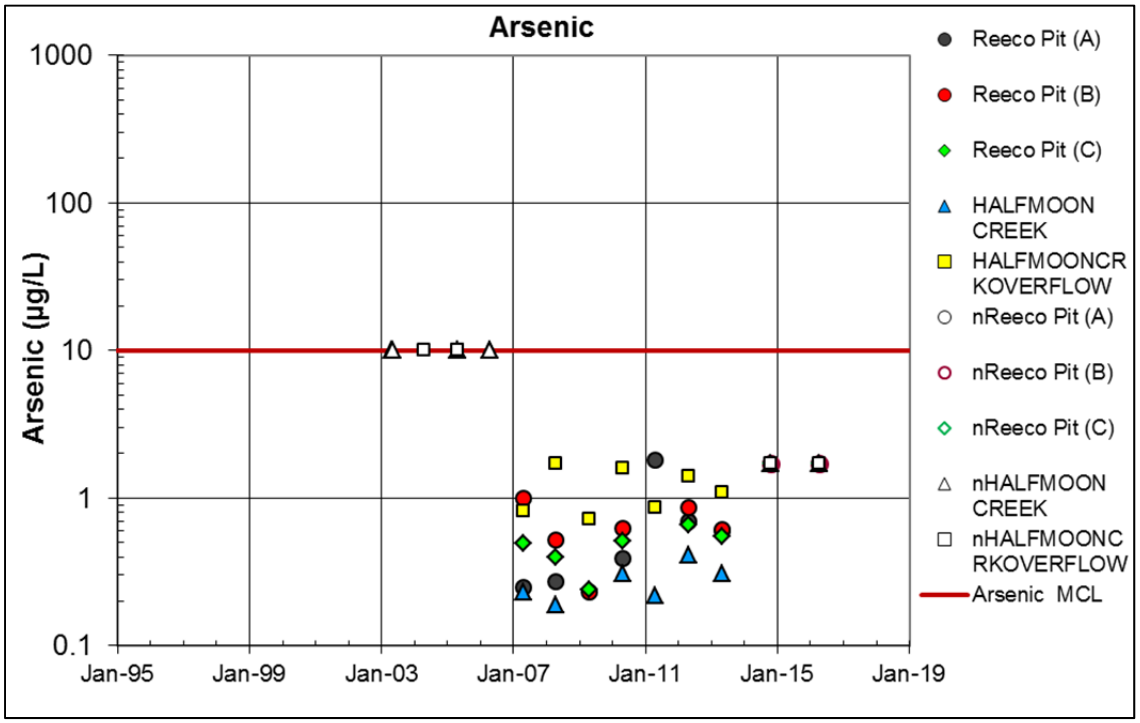
Note:
Open symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit when present.

Figure 31. Local Aquifer Wells Time-Concentration Plot of Arsenic



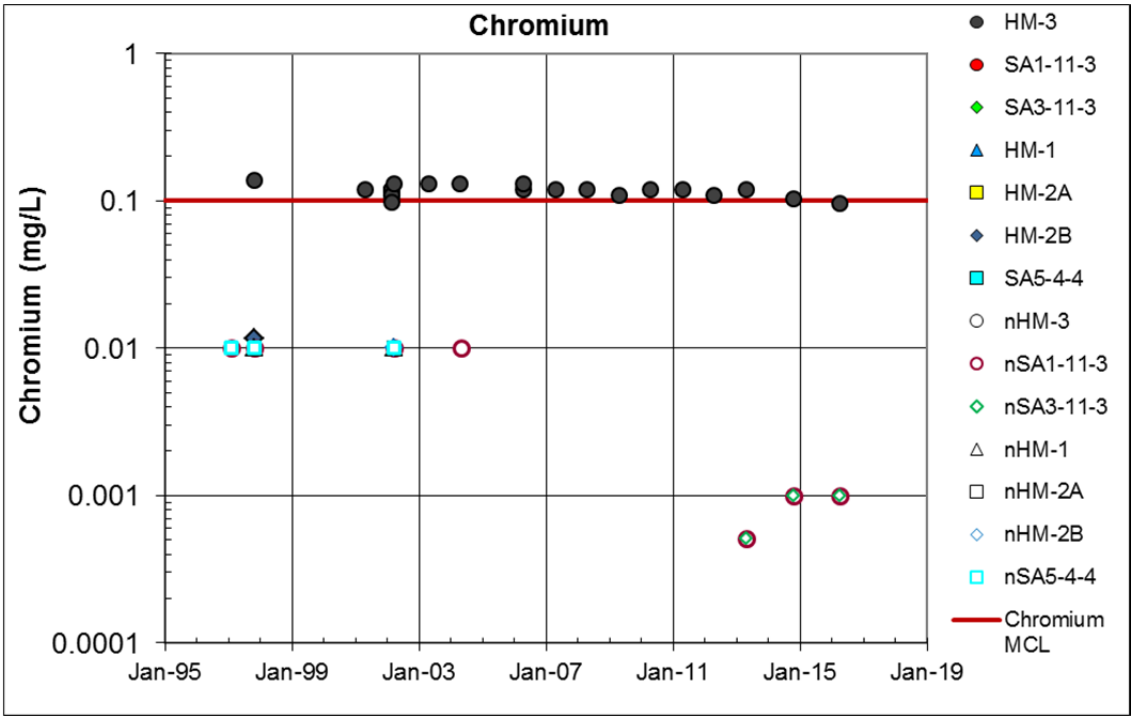
Note:
Open symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit when present.

Figure 32. Deeper Aquifer Wells Time-Concentration Plot of Arsenic



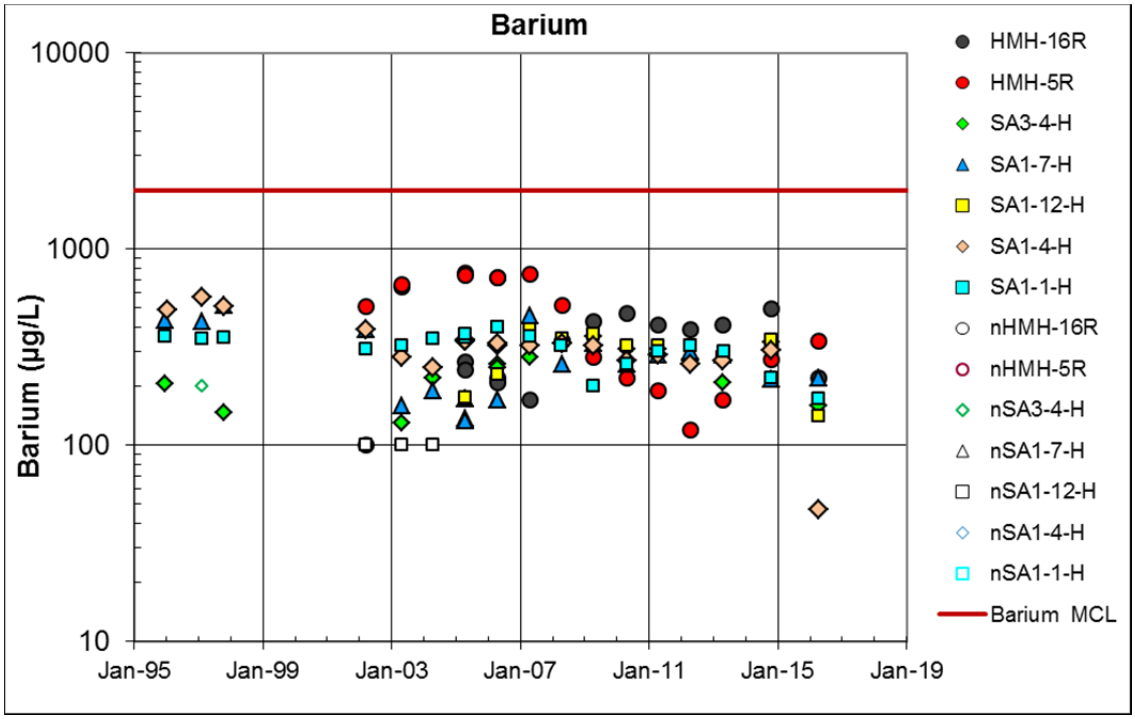
Note:
Open symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit when present.

Figure 33. Surface Water Time-Concentration Plot of Arsenic



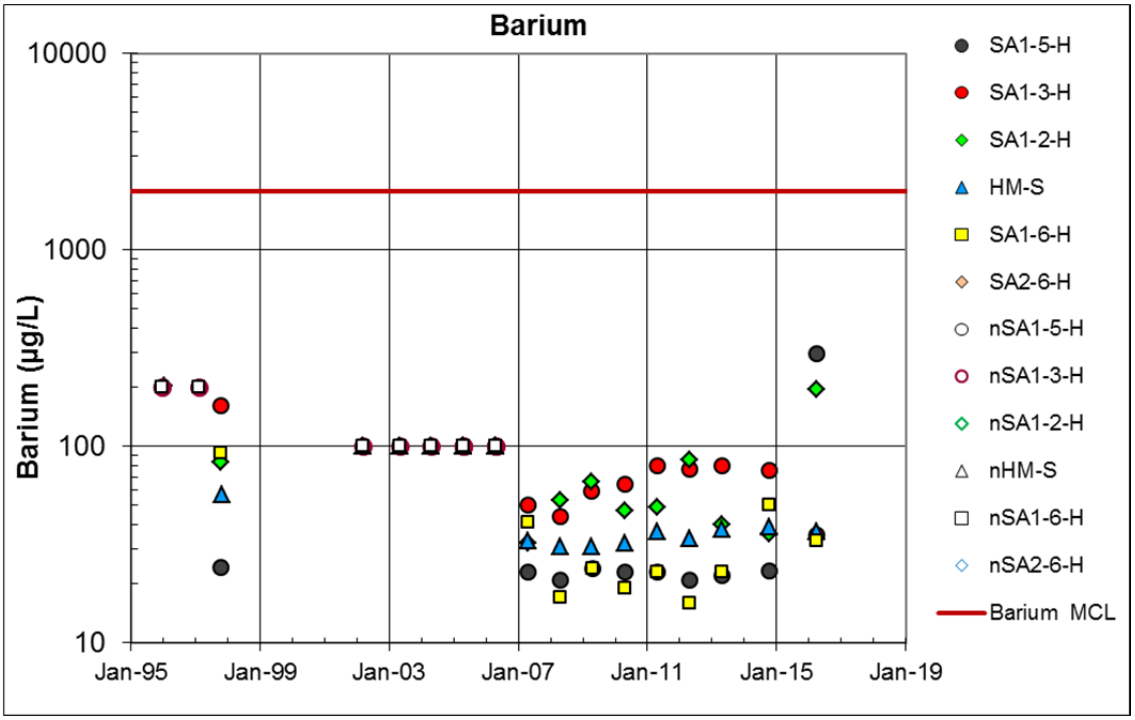
Note:
Open symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit when present.

Figure 34. Deeper Aquifer Wells Time-Concentration Plot of Chromium



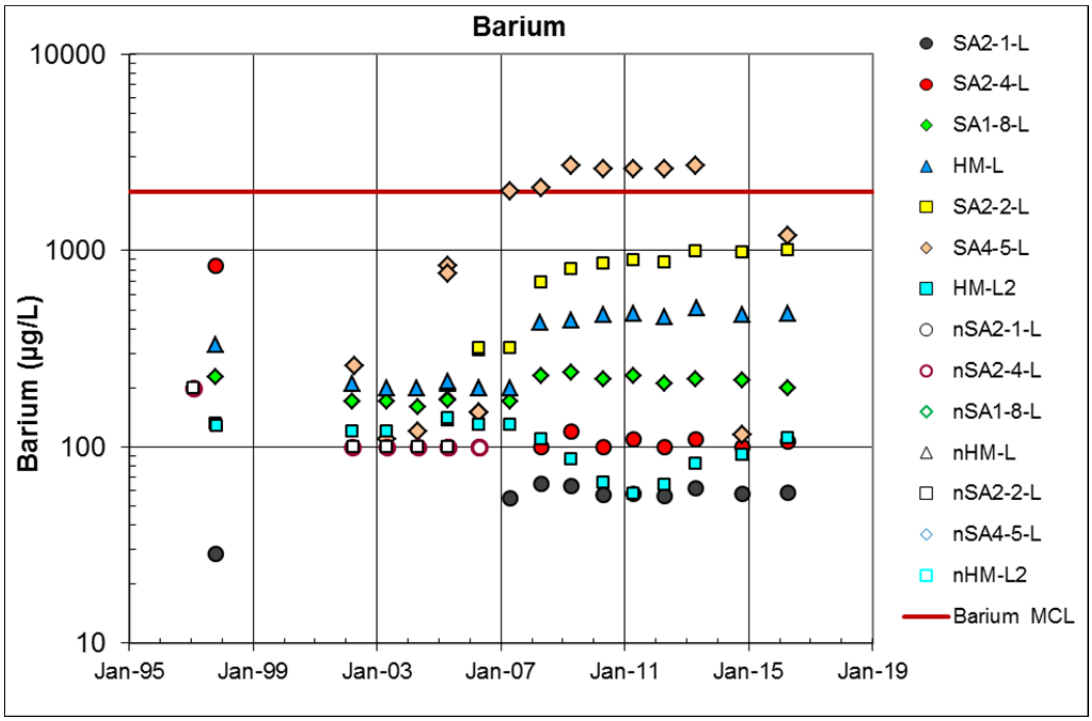
Note:
Open symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit when present.

Figure 35. Alluvial Aquifer Wells Time-Concentration Plot of Barium in Wells with Higher Concentrations



Note:
Open symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit when present.

Figure 36. Alluvial Aquifer Wells Time-Concentration Plots of Barium in Wells with Lower Concentrations



Note:
Open symbols preceded by an "n" in the legend are nondetect results plotted at the detection limit when present.

Figure 37. Local Aquifer Wells Time-Concentration Plot of Barium

8.0 Supplemental Site Activities

The following supplemental site activities were conducted during 2014 and 2016.

8.1 Inspection Activities

Inspectors conducted an assessment of the monitoring wells, survey markers, and the SGZ monument. This assessment verified the existence and condition of the 28 wells, the three survey markers, and the monument at SGZ. All wells and markers and the monument were in good condition.

8.2 Well Installation

Four new monitoring wells, three screened in the Local Aquifer and one screened in the Alluvial Aquifer, were installed during the 2014 drilling program to monitor interactions between the Alluvial and Local Aquifers. Contaminants (tritium and TCE) detected in Local Aquifer well HM-L, located at SGZ, are believed to be the result of downward migration from sources in the Alluvial Aquifer across the intervening confining layer. There are six wells at SGZ, and the migration pathway is likely along the wellbore–formation interface. The Alluvial Aquifer local to SGZ is restricted to the site, but the underlying Local Aquifer extends offsite and therefore warranted additional monitoring locations to establish Local Aquifer flow direction and extent of contamination.

Two of the Local Aquifer wells were installed at locations that already had Alluvial Aquifer wells (SA1-12-H and SA3-4-H), which are now paired with Local Aquifer wells SA1-12-L and SA3-4-L. An Alluvial Aquifer and Local Aquifer well pair was installed south of the REECo pits (SA2-6-H and SA2-6-L). Appendix C provides additional details of the well construction.

9.0 Summary and Recommendations

Sampling of groundwater and surface water at the site is conducted to monitor the shallow groundwater contamination left from site activities, contamination within the shot cavity, and contamination in the Aquifer 5 injection well. No contamination above MCLs was detected in surface water leaving the site. Concentrations of VOCs in affected wells continue to trend downward, and only one well has VOC concentrations that exceed MCLs. Tritium concentrations in all wells are below the MCL, and it continues to attenuate and to decline as a result of radioactive decay. By 2060, tritium at all shallow monitoring locations will have decayed to levels below the standard method detection limit (300 to 400 pCi/L). During the current reporting period arsenic and chromium were present in groundwater above the respective MCL at a few locations though concentrations are stable (with some temporal variability) with no well-defined trends. Only arsenic is present above its MCL at more than one location and its occurrence varies by location and unit with no well-defined pattern. The source of the metals is unclear. Some may be naturally occurring or related to the use of drilling muds. Monitoring of deeper aquifers shows no indication of leakage from either the test cavity or the injection well.

If metals results for October 2017 are consistent with previous sampling rounds metals analysis should be discontinued. VOC sampling at selected locations should be conducted until the TCE in well HMH-5R is below the MCL, which is predicted to be within the next decade or so (DOE 2014).

Once the surface tritium contamination has attenuated sufficiently, the only monitoring needed at the site is for potential radionuclide migration from the shot cavity and Aquifer 5. Tritium will still be an adequate indicator of potential cavity leakage for the next 50 to 100 years. In the meantime, continued sampling and analysis of Cl-36 is recommended to develop an adequate baseline for use in long-term monitoring of the test cavity and Aquifer 5. Preliminary results indicate considerable intrawell variability in Cl-36, so a larger baseline dataset is needed to make meaningful future comparisons.

10.0 References

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Appendix A

Surface Water Monitoring Results

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SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SAL01, Salmon Site
REPORT DATE: 5/3/2017 1:29 pm

PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT		UN-CERTAINTY
Alkalinity, Bicarbonate (As CaCO3)	mg/L	GC-E	10/16/2014	N001	3.51				#	0.725	-
	mg/L	GC-E	04/05/2016	N001	2.97				#	0.725	-
	mg/L	GC-E	04/05/2016	N002	2.48				#	0.725	-
	mg/L	Half Moon Ck Exit	10/15/2014	N001	1.51				#	0.725	-
	mg/L	Half Moon Ck Exit	04/05/2016	N001	0.992	J			#	0.725	-
	mg/L	HALFMOON CREEK	10/16/2014	N001	3.51				#	0.725	-
	mg/L	HALFMOON CREEK	04/05/2016	N001	1.49				#	0.725	-
	mg/L	HALFMOONCR KOVERFLOW	10/16/2014	N001	33.1				#	0.725	-
	mg/L	HALFMOONCR KOVERFLOW	04/05/2016	0001	3.97				#	0.725	-
	mg/L	HickHCrTSD-East	10/16/2014	N001	1.51				#	0.725	-
	mg/L	HickHCrTSD-East	04/05/2016	N001	0.725	U			#	0.725	-
	mg/L	HMC-S	10/16/2014	N001	2.01				#	0.725	-
	mg/L	HMC-S	04/05/2016	N001	0.725	U			#	0.725	-
	mg/L	Pond West of GZ	10/16/2014	N001	3.01				#	0.725	-
	mg/L	Pond West of GZ	04/05/2016	0001	1.98				#	0.725	-
	mg/L	Reeco Pit (A)	10/15/2014	N001	50.2				#	0.725	-
	mg/L	Reeco Pit (A)	04/05/2016	N001	3.97				#	0.725	-
	mg/L	Reeco Pit (B)	10/15/2014	N001	106				#	0.725	-
	mg/L	Reeco Pit (B)	04/05/2016	N001	8.92				#	0.725	-
	mg/L	Reeco Pit (C)	10/15/2014	N001	55.2				#	0.725	-
	mg/L	Reeco Pit (C)	04/05/2016	N001	7.93				#	0.725	-
Alkalinity, Carbonate (As CaCO3)	mg/L	GC-E	10/16/2014	N001	0.725	U			#	0.725	-
	mg/L	GC-E	04/05/2016	N001	0.725	U			#	0.725	-
	mg/L	GC-E	04/05/2016	N002	0.725	U			#	0.725	-
	mg/L	Half Moon Ck Exit	10/15/2014	N001	0.725	U			#	0.725	-
	mg/L	Half Moon Ck Exit	04/05/2016	N001	0.725	U			#	0.725	-
	mg/L	HALFMOON CREEK	10/16/2014	N001	0.725	U			#	0.725	-
	mg/L	HALFMOON CREEK	04/05/2016	N001	0.725	U			#	0.725	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SAL01, Salmon Site
REPORT DATE: 5/3/2017 1:29 pm

PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT		UN-CERTAINTY
Alkalinity, Carbonate (As CaCO3)	mg/L	HALFMOONCR KOVERFLOW	10/16/2014	N001	0.725	U			#	0.725	-
	mg/L	HALFMOONCR KOVERFLOW	04/05/2016	0001	0.725	U			#	0.725	-
	mg/L	HickHCrTSD-East	10/16/2014	N001	0.725	U			#	0.725	-
	mg/L	HickHCrTSD-East	04/05/2016	N001	0.725	U			#	0.725	-
	mg/L	HMC-S	10/16/2014	N001	0.725	U			#	0.725	-
	mg/L	HMC-S	04/05/2016	N001	0.725	U			#	0.725	-
	mg/L	Pond West of GZ	10/16/2014	N001	0.725	U			#	0.725	-
	mg/L	Pond West of GZ	04/05/2016	0001	0.725	U		J	#	0.725	-
	mg/L	Reeco Pit (A)	10/15/2014	N001	0.725	U			#	0.725	-
	mg/L	Reeco Pit (A)	04/05/2016	N001	0.725	U			#	0.725	-
	mg/L	Reeco Pit (B)	10/15/2014	N001	0.725	U			#	0.725	-
	mg/L	Reeco Pit (B)	04/05/2016	N001	0.725	U			#	0.725	-
	mg/L	Reeco Pit (C)	10/15/2014	N001	0.725	U			#	0.725	-
	mg/L	Reeco Pit (C)	04/05/2016	N001	0.725	U			#	0.725	-
Arsenic	mg/L	GC-E	10/16/2014	N001	0.0017	U			#	0.0017	-
	mg/L	GC-E	04/05/2016	N001	0.0017	U			#	0.0017	-
	mg/L	Half Moon Ck Exit	10/15/2014	N001	0.0017	U			#	0.0017	-
	mg/L	Half Moon Ck Exit	04/05/2016	N001	0.0017	U			#	0.0017	-
	mg/L	HALFMOON CREEK	10/16/2014	N001	0.0017	U			#	0.0017	-
	mg/L	HALFMOON CREEK	04/05/2016	N001	0.0017	U			#	0.0017	-
	mg/L	HALFMOONCR KOVERFLOW	10/16/2014	N001	0.0017	U			#	0.0017	-
	mg/L	HALFMOONCR KOVERFLOW	04/05/2016	0001	0.0017	U			#	0.0017	-
	mg/L	HickHCrTSD-East	10/16/2014	N001	0.0017	U			#	0.0017	-
	mg/L	HickHCrTSD-East	04/05/2016	N001	0.0017	U			#	0.0017	-
	mg/L	HMC-S	10/16/2014	N001	0.0017	U			#	0.0017	-
	mg/L	HMC-S	04/05/2016	N001	0.0017	U			#	0.0017	-
	mg/L	Pond West of GZ	10/16/2014	N001	0.0017	U			#	0.0017	-
	mg/L	Pond West of GZ	04/05/2016	0001	0.0017	U			#	0.0017	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SAL01, Salmon Site
REPORT DATE: 5/3/2017 1:29 pm

PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Arsenic	mg/L	Reeco Pit (A)	10/15/2014	N001	0.0017	U		#	0.0017	-
	mg/L	Reeco Pit (A)	04/05/2016	N001	0.0017	U		#	0.0017	-
	mg/L	Reeco Pit (B)	10/15/2014	N001	0.0017	U		#	0.0017	-
	mg/L	Reeco Pit (B)	04/05/2016	N001	0.0017	U		#	0.0017	-
	mg/L	Reeco Pit (C)	10/15/2014	N001	0.0017	U		#	0.0017	-
	mg/L	Reeco Pit (C)	04/05/2016	N001	0.0017	U		#	0.0017	-
Barium	mg/L	GC-E	10/16/2014	N001	0.0313			#	0.001	-
	mg/L	GC-E	04/05/2016	N001	0.0273			#	0.001	-
	mg/L	Half Moon Ck Exit	10/15/2014	N001	0.0281			#	0.001	-
	mg/L	Half Moon Ck Exit	04/05/2016	N001	0.0289			#	0.001	-
	mg/L	HALFMOON CREEK	10/16/2014	N001	0.0252			#	0.001	-
	mg/L	HALFMOON CREEK	04/05/2016	N001	0.0291			#	0.001	-
	mg/L	HALFMOONCR KOVERFLOW	10/16/2014	N001	0.0980			#	0.001	-
	mg/L	HALFMOONCR KOVERFLOW	04/05/2016	0001	0.0439			#	0.001	-
	mg/L	HickHCrTSD-East	10/16/2014	N001	0.0361			#	0.001	-
	mg/L	HickHCrTSD-East	04/05/2016	N001	0.0254			#	0.001	-
	mg/L	HMC-S	10/16/2014	N001	0.0240			#	0.001	-
	mg/L	HMC-S	04/05/2016	N001	0.0309			#	0.001	-
	mg/L	Pond West of GZ	10/16/2014	N001	0.0519			#	0.001	-
	mg/L	Pond West of GZ	04/05/2016	0001	0.0234			#	0.001	-
	mg/L	Reeco Pit (A)	10/15/2014	N001	0.0411			#	0.001	-
	mg/L	Reeco Pit (A)	04/05/2016	N001	0.0256			#	0.001	-
	mg/L	Reeco Pit (B)	10/15/2014	N001	0.0776			#	0.001	-
	mg/L	Reeco Pit (B)	04/05/2016	N001	0.0194			#	0.001	-
	mg/L	Reeco Pit (C)	10/15/2014	N001	0.0687			#	0.001	-
	mg/L	Reeco Pit (C)	04/05/2016	N001	0.0191			#	0.001	-
Calcium	mg/L	GC-E	10/16/2014	N001	0.780			#	0.05	-
	mg/L	GC-E	04/05/2016	N001	0.654			#	0.05	-
	mg/L	GC-E	04/05/2016	N002	0.667			#	0.05	-
	mg/L	Half Moon Ck Exit	10/15/2014	N001	0.671			#	0.05	-

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PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT		UN-CERTAINTY
Calcium	mg/L	Half Moon Ck Exit	04/05/2016	N001	0.695				#	0.05	-
	mg/L	HALFMOON CREEK	10/16/2014	N001	0.632				#	0.05	-
	mg/L	HALFMOON CREEK	04/05/2016	N001	0.666				#	0.05	-
	mg/L	HALFMOONCR KOVERFLOW	10/16/2014	N001	11.500				#	0.05	-
	mg/L	HALFMOONCR KOVERFLOW	04/05/2016	0001	6.040				#	0.05	-
	mg/L	HickHCrTSD-East	10/16/2014	N001	0.730				#	0.05	-
	mg/L	HickHCrTSD-East	04/05/2016	N001	0.481				#	0.05	-
	mg/L	HMC-S	10/16/2014	N001	0.601				#	0.05	-
	mg/L	HMC-S	04/05/2016	N001	0.586				#	0.05	-
	mg/L	Pond West of GZ	10/16/2014	N001	1.990				#	0.05	-
	mg/L	Pond West of GZ	04/05/2016	0001	1.460				#	0.05	-
	mg/L	Reeco Pit (A)	10/15/2014	N001	12.500				#	0.05	-
	mg/L	Reeco Pit (A)	04/05/2016	N001	1.490				#	0.05	-
	mg/L	Reeco Pit (B)	10/15/2014	N001	40.300				#	0.05	-
	mg/L	Reeco Pit (B)	04/05/2016	N001	4.000				#	0.05	-
	mg/L	Reeco Pit (C)	10/15/2014	N001	24.400				#	0.05	-
	mg/L	Reeco Pit (C)	04/05/2016	N001	4.110				#	0.05	-
Chloride	mg/L	GC-E	10/16/2014	N001	3.36				#	0.067	-
	mg/L	GC-E	04/05/2016	N001	2.91				#	0.067	-
	mg/L	GC-E	04/05/2016	N002	2.90				#	0.067	-
	mg/L	Half Moon Ck Exit	10/15/2014	N001	3.27				#	0.067	-
	mg/L	Half Moon Ck Exit	04/05/2016	N001	2.96				#	0.067	-
	mg/L	HALFMOON CREEK	10/16/2014	N001	3.14				#	0.067	-
	mg/L	HALFMOON CREEK	04/05/2016	N001	2.93				#	0.067	-
	mg/L	HALFMOONCR KOVERFLOW	10/16/2014	N001	30.6				#	1.34	-
	mg/L	HALFMOONCR KOVERFLOW	04/05/2016	0001	8.39				#	0.067	-
	mg/L	HickHCrTSD-East	10/16/2014	N001	2.71				#	0.067	-

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Chloride	mg/L	HickHCrTSD-East	04/05/2016	N001	2.36				#	0.067	-
	mg/L	HMC-S	10/16/2014	N001	3.30				#	0.067	-
	mg/L	HMC-S	04/05/2016	N001	2.84				#	0.067	-
	mg/L	Pond West of GZ	10/16/2014	N001	2.28				#	0.067	-
	mg/L	Pond West of GZ	04/05/2016	0001	1.56				#	0.067	-
	mg/L	Reeco Pit (A)	10/15/2014	N001	4.14				#	0.067	-
	mg/L	Reeco Pit (A)	04/05/2016	N001	2.34				#	0.067	-
	mg/L	Reeco Pit (B)	10/15/2014	N001	93.1				#	1.34	-
	mg/L	Reeco Pit (B)	04/05/2016	N001	4.62				#	0.067	-
	mg/L	Reeco Pit (C)	10/15/2014	N001	96.8				#	1.34	-
	mg/L	Reeco Pit (C)	04/05/2016	N001	6.11				#	0.067	-
Chlorine-36/35 Mass Ratio	Unitless	GC-E	10/16/2014	N003	0.0000				#	-	-
	Unitless	Half Moon Ck Exit	10/15/2014	N003	0.0000				#	-	-
	Unitless	HickHCrTSD-East	10/16/2014	N003	0.0000				#	-	-
	Unitless	HMC-S	10/16/2014	N003	0.0000				#	-	-
Chromium	mg/L	GC-E	10/16/2014	N001	0.0010	U			#	0.001	-
	mg/L	GC-E	04/05/2016	N001	0.0010	U			#	0.001	-
	mg/L	Half Moon Ck Exit	10/15/2014	N001	0.0010	U			#	0.001	-
	mg/L	Half Moon Ck Exit	04/05/2016	N001	0.0010	U			#	0.001	-
	mg/L	HALFMOON CREEK	10/16/2014	N001	0.0010	U			#	0.001	-
	mg/L	HALFMOON CREEK	04/05/2016	N001	0.0010	U			#	0.001	-
	mg/L	HALFMOONCRKOVERFLOW	10/16/2014	N001	0.0028	B			#	0.001	-
	mg/L	HALFMOONCRKOVERFLOW	04/05/2016	0001	0.0043	B			#	0.001	-
	mg/L	HickHCrTSD-East	10/16/2014	N001	0.0010	U			#	0.001	-
	mg/L	HickHCrTSD-East	04/05/2016	N001	0.0010	U			#	0.001	-
	mg/L	HMC-S	10/16/2014	N001	0.0010	U			#	0.001	-
	mg/L	HMC-S	04/05/2016	N001	0.0010	U			#	0.001	-
	mg/L	Pond West of GZ	10/16/2014	N001	0.0010	U			#	0.001	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SAL01, Salmon Site
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PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT		UN-CERTAINTY
Chromium	mg/L	Pond West of GZ	04/05/2016	0001	0.0010	U		#	0.001		-
	mg/L	Reeco Pit (A)	10/15/2014	N001	0.0010	U		#	0.001		-
	mg/L	Reeco Pit (A)	04/05/2016	N001	0.0012	B		#	0.001		-
	mg/L	Reeco Pit (B)	10/15/2014	N001	0.0010	U		#	0.001		-
	mg/L	Reeco Pit (B)	04/05/2016	N001	0.0018	B		#	0.001		-
	mg/L	Reeco Pit (C)	10/15/2014	N001	0.0010	U		#	0.001		-
	mg/L	Reeco Pit (C)	04/05/2016	N001	0.0019	B		#	0.001		-
Dissolved Oxygen	mg/L	Pond West of GZ	04/05/2016	N001				#	-		-
Enriched Tritium	pCi/L	GC-E	10/16/2014	N001	6.57		J	#	2.89	±	2.15
	pCi/L	GC-E	04/05/2016	N001	4.21		U	#	3.44	±	2.81
	pCi/L	Half Moon Ck Exit	10/15/2014	N001	8.50			#	2.83	±	2.25
	pCi/L	Half Moon Ck Exit	04/05/2016	N001	7.48		J	#	3.39	±	3.94
	pCi/L	HickHCrTSD-East	10/16/2014	N001	7.46		J	#	2.86	±	2.11
	pCi/L	HickHCrTSD-East	04/05/2016	N001	5.21		J	#	3.37	±	3.08
	pCi/L	HMC-S	10/16/2014	N001	9.83			#	2.77	±	2.29
	pCi/L	HMC-S	04/05/2016	N001	4.14		J	#	3.1	±	2.65
Lead	mg/L	GC-E	10/16/2014	N001	0.0005	U		#	0.0005		-
	mg/L	GC-E	04/05/2016	N001	0.0005	U		#	0.0005		-
	mg/L	Half Moon Ck Exit	10/15/2014	N001	0.0005	U		#	0.0005		-
	mg/L	Half Moon Ck Exit	04/05/2016	N001	0.0005	U		#	0.0005		-
	mg/L	HALFMOON CREEK	10/16/2014	N001	0.0005	U		#	0.0005		-
	mg/L	HALFMOON CREEK	04/05/2016	N001	0.0005	U		#	0.0005		-
	mg/L	HALFMOONCRKOVERFLOW	10/16/2014	N001	0.0005	U		#	0.0005		-
	mg/L	HALFMOONCRKOVERFLOW	04/05/2016	0001	0.0006	B		#	0.0005		-
	mg/L	HickHCrTSD-East	10/16/2014	N001	0.0005	U		#	0.0005		-
	mg/L	HickHCrTSD-East	04/05/2016	N001	0.0005	U		#	0.0005		-
	mg/L	HMC-S	10/16/2014	N001	0.0005	U		#	0.0005		-
	mg/L	HMC-S	04/05/2016	N001	0.0005	U		#	0.0005		-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SAL01, Salmon Site
REPORT DATE: 5/3/2017 1:29 pm

PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Lead	mg/L	Pond West of GZ	10/16/2014	N001	0.0011	B		#	0.0005	-
	mg/L	Pond West of GZ	04/05/2016	0001	0.0005	U		#	0.0005	-
	mg/L	Reeco Pit (A)	10/15/2014	N001	0.0005	U		#	0.0005	-
	mg/L	Reeco Pit (A)	04/05/2016	N001	0.0005	U		#	0.0005	-
	mg/L	Reeco Pit (B)	10/15/2014	N001	0.0005	U		#	0.0005	-
	mg/L	Reeco Pit (B)	04/05/2016	N001	0.0005	U		#	0.0005	-
	mg/L	Reeco Pit (C)	10/15/2014	N001	0.0005	U		#	0.0005	-
	mg/L	Reeco Pit (C)	04/05/2016	N001	0.0005	U		#	0.0005	-
Magnesium	mg/L	GC-E	10/16/2014	N001	0.683			#	0.11	-
	mg/L	GC-E	04/05/2016	N001	0.493			#	0.11	-
	mg/L	GC-E	04/05/2016	N002	0.494			#	0.11	-
	mg/L	Half Moon Ck Exit	10/15/2014	N001	0.673			#	0.11	-
	mg/L	Half Moon Ck Exit	04/05/2016	N001	0.509			#	0.11	-
	mg/L	HALFMOON CREEK	10/16/2014	N001	0.656			#	0.11	-
	mg/L	HALFMOON CREEK	04/05/2016	N001	0.500			#	0.11	-
	mg/L	HALFMOONCR KOVERFLOW	10/16/2014	N001	1.740			#	0.11	-
	mg/L	HALFMOONCR KOVERFLOW	04/05/2016	0001	0.706			#	0.11	-
	mg/L	HickHCrTSD-East	10/16/2014	N001	0.458			#	0.11	-
	mg/L	HickHCrTSD-East	04/05/2016	N001	0.295	B		#	0.11	-
	mg/L	HMC-S	10/16/2014	N001	0.580			#	0.11	-
	mg/L	HMC-S	04/05/2016	N001	0.413			#	0.11	-
	mg/L	Pond West of GZ	10/16/2014	N001	0.562			#	0.11	-
	mg/L	Pond West of GZ	04/05/2016	0001	0.386			#	0.11	-
	mg/L	Reeco Pit (A)	10/15/2014	N001	3.430			#	0.11	-
	mg/L	Reeco Pit (A)	04/05/2016	N001	0.378			#	0.11	-
	mg/L	Reeco Pit (B)	10/15/2014	N001	3.910			#	0.11	-
	mg/L	Reeco Pit (B)	04/05/2016	N001	0.591			#	0.11	-
	mg/L	Reeco Pit (C)	10/15/2014	N001	4.240			#	0.11	-
	mg/L	Reeco Pit (C)	04/05/2016	N001	0.666			#	0.11	-
pH	s.u.	GC-E	10/16/2014	N001	6.16			#	-	-

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pH	s.u.	GC-E	04/05/2016	N001	6.14				#	-	-
	s.u.	Half Moon Ck Exit	10/15/2014	N001	6.35				#	-	-
	s.u.	Half Moon Ck Exit	04/05/2016	N001	7.19				#	-	-
	s.u.	HALFMOON CREEK	10/16/2014	N001	6.47				#	-	-
	s.u.	HALFMOON CREEK	04/05/2016	N001	6.62				#	-	-
	s.u.	HALFMOONCR KOVERFLOW	10/16/2014	N001	6.24				#	-	-
	s.u.	HALFMOONCR KOVERFLOW	04/05/2016	N001	6.56				#	-	-
	s.u.	HickHCrTSD-East	10/16/2014	N001	5.77				#	-	-
	s.u.	HickHCrTSD-East	04/05/2016	N001	6.09				#	-	-
	s.u.	HMC-S	10/16/2014	N001	6.18				#	-	-
	s.u.	HMC-S	04/05/2016	N001	6.17				#	-	-
	s.u.	Pond West of GZ	10/16/2014	N001	6.05				#	-	-
	s.u.	Pond West of GZ	04/05/2016	N001	6.51				#	-	-
	s.u.	Reeco Pit (A)	10/15/2014	N001	6.03				#	-	-
	s.u.	Reeco Pit (A)	04/05/2016	N001	6.42				#	-	-
	s.u.	Reeco Pit (B)	10/15/2014	N001	6.63				#	-	-
	s.u.	Reeco Pit (B)	04/05/2016	N001	6.29				#	-	-
	s.u.	Reeco Pit (C)	10/15/2014	N001	6.56				#	-	-
	s.u.	Reeco Pit (C)	04/05/2016	N001	6.41				#	-	-
Potassium	mg/L	GC-E	10/16/2014	N001	0.803				#	0.05	-
	mg/L	GC-E	04/05/2016	N001	0.581				#	0.05	-
	mg/L	GC-E	04/05/2016	N002	0.605				#	0.05	-
	mg/L	Half Moon Ck Exit	10/15/2014	N001	0.655				#	0.05	-
	mg/L	Half Moon Ck Exit	04/05/2016	N001	0.567				#	0.05	-
	mg/L	HALFMOON CREEK	10/16/2014	N001	0.611				#	0.05	-
	mg/L	HALFMOON CREEK	04/05/2016	N001	0.521				#	0.05	-
	mg/L	HALFMOONCR KOVERFLOW	10/16/2014	N001	1.560				#	0.05	-
	mg/L	HALFMOONCR KOVERFLOW	04/05/2016	0001	0.475				#	0.05	-

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Potassium	mg/L	HickHCrTSD-East	10/16/2014	N001	0.162				#	0.05	-
	mg/L	HickHCrTSD-East	04/05/2016	N001	0.215				#	0.05	-
	mg/L	HMC-S	10/16/2014	N001	0.558				#	0.05	-
	mg/L	HMC-S	04/05/2016	N001	0.484				#	0.05	-
	mg/L	Pond West of GZ	10/16/2014	N001	0.224				#	0.05	-
	mg/L	Pond West of GZ	04/05/2016	0001	0.123	B			#	0.05	-
	mg/L	Reeco Pit (A)	10/15/2014	N001	1.070				#	0.05	-
	mg/L	Reeco Pit (A)	04/05/2016	N001	0.388				#	0.05	-
	mg/L	Reeco Pit (B)	10/15/2014	N001	1.210				#	0.05	-
	mg/L	Reeco Pit (B)	04/05/2016	N001	0.470				#	0.05	-
	mg/L	Reeco Pit (C)	10/15/2014	N001	1.370				#	0.05	-
	mg/L	Reeco Pit (C)	04/05/2016	N001	0.465				#	0.05	-
Sodium	mg/L	GC-E	10/16/2014	N001	2.140				#	0.1	-
	mg/L	GC-E	04/05/2016	N001	1.870				#	0.1	-
	mg/L	GC-E	04/05/2016	N002	2.020				#	0.1	-
	mg/L	Half Moon Ck Exit	10/15/2014	N001	2.000				#	0.1	-
	mg/L	Half Moon Ck Exit	04/05/2016	N001	1.850				#	0.1	-
	mg/L	HALFMOON CREEK	10/16/2014	N001	1.990				#	0.1	-
	mg/L	HALFMOON CREEK	04/05/2016	N001	1.920				#	0.1	-
	mg/L	HALFMOONCRKOVERFLOW	10/16/2014	N001	24.200				#	0.1	-
	mg/L	HALFMOONCRKOVERFLOW	04/05/2016	0001	5.800				#	0.1	-
	mg/L	HickHCrTSD-East	10/16/2014	N001	1.770				#	0.1	-
	mg/L	HickHCrTSD-East	04/05/2016	N001	1.610				#	0.1	-
	mg/L	HMC-S	10/16/2014	N001	1.990				#	0.1	-
	mg/L	HMC-S	04/05/2016	N001	1.750				#	0.1	-
	mg/L	Pond West of GZ	10/16/2014	N001	1.610				#	0.1	-
	mg/L	Pond West of GZ	04/05/2016	0001	0.895				#	0.1	-
	mg/L	Reeco Pit (A)	10/15/2014	N001	6.730				#	0.1	-
	mg/L	Reeco Pit (A)	04/05/2016	N001	1.980				#	0.1	-

PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT		UN-CERTAINTY
Sodium	mg/L	Reeco Pit (B)	10/15/2014	N001	73.000				#	0.1	-
	mg/L	Reeco Pit (B)	04/05/2016	N001	4.750				#	0.1	-
	mg/L	Reeco Pit (C)	10/15/2014	N001	60.700				#	0.1	-
	mg/L	Reeco Pit (C)	04/05/2016	N001	5.850				#	0.1	-
Specific Conductance	umhos/cm	GC-E	10/16/2014	N001	26				#	-	-
	umhos/cm	GC-E	04/05/2016	N001	42				#	-	-
	umhos/cm	Half Moon Ck Exit	10/15/2014	N001	22				#	-	-
	umhos/cm	Half Moon Ck Exit	04/05/2016	N001	36				#	-	-
	umhos/cm	HALFMOON CREEK	10/16/2014	N001	22				#	-	-
	umhos/cm	HALFMOON CREEK	04/05/2016	N001	36				#	-	-
	umhos/cm	HALFMOONCR KOVERFLOW	10/16/2014	N001	210				#	-	-
	umhos/cm	HALFMOONCR KOVERFLOW	04/05/2016	N001	99				#	-	-
	umhos/cm	HickHCrTSD-East	10/16/2014	N001	28				#	-	-
	umhos/cm	HickHCrTSD-East	04/05/2016	N001	32				#	-	-
	umhos/cm	HMC-S	10/16/2014	N001	22				#	-	-
	umhos/cm	HMC-S	04/05/2016	N001	35				#	-	-
	umhos/cm	Pond West of GZ	10/16/2014	N001	42				#	-	-
	umhos/cm	Pond West of GZ	04/05/2016	N001	35				#	-	-
	umhos/cm	Reeco Pit (A)	10/15/2014	N001	111				#	-	-
	umhos/cm	Reeco Pit (A)	04/05/2016	N001	40				#	-	-
	umhos/cm	Reeco Pit (B)	10/15/2014	N001	563				#	-	-
	umhos/cm	Reeco Pit (B)	04/05/2016	N001	65				#	-	-
	umhos/cm	Reeco Pit (C)	10/15/2014	N001	471				#	-	-
	umhos/cm	Reeco Pit (C)	04/05/2016	N001	71				#	-	-
Sulfate	mg/L	GC-E	10/16/2014	N001	0.299	J			#	0.133	-
	mg/L	GC-E	04/05/2016	N001	0.389	J			#	0.133	-
	mg/L	GC-E	04/05/2016	N002	0.378	J			#	0.133	-
	mg/L	Half Moon Ck Exit	10/15/2014	N001	0.424				#	0.133	-
	mg/L	Half Moon Ck Exit	04/05/2016	N001	0.638				#	0.133	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SAL01, Salmon Site
REPORT DATE: 5/3/2017 1:29 pm

PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT		UN-CERTAINTY
Sulfate	mg/L	HALFMOON CREEK	10/16/2014	N001	0.367	J			#	0.133	-
	mg/L	HALFMOON CREEK	04/05/2016	N001	0.593				#	0.133	-
	mg/L	HALFMOONCR KOVERFLOW	10/16/2014	N001	6.97				#	0.133	-
	mg/L	HALFMOONCR KOVERFLOW	04/05/2016	0001	10.3				#	0.133	-
	mg/L	HickHCrTSD-East	10/16/2014	N001	0.279	J			#	0.133	-
	mg/L	HickHCrTSD-East	04/05/2016	N001	0.577				#	0.133	-
	mg/L	HMC-S	10/16/2014	N001	0.329	J			#	0.133	-
	mg/L	HMC-S	04/05/2016	N001	0.625				#	0.133	-
	mg/L	Pond West of GZ	10/16/2014	N001	0.816				#	0.133	-
	mg/L	Pond West of GZ	04/05/2016	0001	1.18				#	0.133	-
	mg/L	Reeco Pit (A)	10/15/2014	N001	9.81				#	0.133	-
	mg/L	Reeco Pit (A)	04/05/2016	N001	1.82				#	0.133	-
	mg/L	Reeco Pit (B)	10/15/2014	N001	24.7				#	2.66	-
	mg/L	Reeco Pit (B)	04/05/2016	N001	2.17				#	0.133	-
	mg/L	Reeco Pit (C)	10/15/2014	N001	14.3				#	2.66	-
	mg/L	Reeco Pit (C)	04/05/2016	N001	2.36				#	0.133	-
Temperature	C	GC-E	10/16/2014	N001	17.82				#	-	-
	C	GC-E	04/05/2016	N001	18.23				#	-	-
	C	Half Moon Ck Exit	10/15/2014	N001	17.21				#	-	-
	C	Half Moon Ck Exit	04/05/2016	N001	16.05				#	-	-
	C	HALFMOON CREEK	10/16/2014	N001	16.53				#	-	-
	C	HALFMOON CREEK	04/05/2016	N001	15.97				#	-	-
	C	HALFMOONCR KOVERFLOW	10/16/2014	N001	19.44				#	-	-
	C	HALFMOONCR KOVERFLOW	04/05/2016	N001	15.36				#	-	-
	C	HickHCrTSD-East	10/16/2014	N001	17.01				#	-	-
	C	HickHCrTSD-East	04/05/2016	N001	16.53				#	-	-
	C	HMC-S	10/16/2014	N001	15.46				#	-	-
	C	HMC-S	04/05/2016	N001	16.93				#	-	-

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PARAMETER	UNITS	LOCATION CODE	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT		UN-CERTAINTY
Temperature	C	Pond West of GZ	10/16/2014	N001	26.28				#	-	-
	C	Pond West of GZ	04/05/2016	N001	16.00				#	-	-
	C	Reeco Pit (A)	10/15/2014	N001	17.57				#	-	-
	C	Reeco Pit (A)	04/05/2016	N001	15.62				#	-	-
	C	Reeco Pit (B)	10/15/2014	N001	16.85				#	-	-
	C	Reeco Pit (B)	04/05/2016	N001	14.74				#	-	-
	C	Reeco Pit (C)	10/15/2014	N001	17.59				#	-	-
	C	Reeco Pit (C)	04/05/2016	N001	14.81				#	-	-
Tritium	pCi/L	HALFMOON CREEK	10/16/2014	N001	-11.3	U			#	370	± 208.
	pCi/L	HALFMOON CREEK	04/05/2016	N001	110	U			#	339	± 199.
	pCi/L	HALFMOONCR KOVERFLOW	10/16/2014	N001	199	U			#	368	± 223.
	pCi/L	HALFMOONCR KOVERFLOW	04/05/2016	N001	49.6	U			#	342	± 197.
	pCi/L	Pond West of GZ	10/16/2014	N001	-5.26	U			#	312	± 174.
	pCi/L	Pond West of GZ	04/05/2016	N001	-17.6	U			#	336	± 189.
	pCi/L	Reeco Pit (A)	10/15/2014	N001	94.3	U			#	311	± 181.
	pCi/L	Reeco Pit (A)	04/05/2016	N001	234	U			#	337	± 208.
	pCi/L	Reeco Pit (B)	10/15/2014	N001	-79.9	U			#	313	± 169.
	pCi/L	Reeco Pit (B)	04/05/2016	N001	-6.11	U			#	335	± 190.
	pCi/L	Reeco Pit (C)	10/15/2014	N001	53.1	U			#	332	± 189.
	pCi/L	Reeco Pit (C)	04/05/2016	N001	-116	U			#	342	± 188.
Turbidity	NTU	GC-E	10/16/2014	N001	1.06				#	-	-
	NTU	GC-E	04/05/2016	N001	2.91				#	-	-
	NTU	Half Moon Ck Exit	04/05/2016	N001	4.78				#	-	-
	NTU	HALFMOON CREEK	04/05/2016	N001	4.89				#	-	-
	NTU	HALFMOONCR KOVERFLOW	04/05/2016	N001	10.3				#	-	-
	NTU	HickHCrTSD-East	10/16/2014	N001	9.8				#	-	-
	NTU	HickHCrTSD-East	04/05/2016	N001	6.67				#	-	-
	NTU	HMC-S	10/16/2014	N001	3.00				#	-	-
	NTU	HMC-S	04/05/2016	N001	5.39				#	-	-

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Turbidity	NTU	Pond West of GZ	04/05/2016	N001	17.6				#	-	-
	NTU	Reeco Pit (A)	04/05/2016	N001	5.13				#	-	-
	NTU	Reeco Pit (B)	04/05/2016	N001	6.96				#	-	-
	NTU	Reeco Pit (C)	04/05/2016	N001	7.71				#	-	-

RECORDS: SELECTED FROM USEE800 WHERE site_code='SAL01' AND (data_validation_qualifiers IS NULL OR data_validation_qualifiers NOT LIKE '%R%' AND data_validation_qualifiers NOT LIKE '%X%') AND DATE_SAMPLED >= #1/1/2014#

SAMPLE ID CODES: 000X = Filtered sample. N00X = Unfiltered sample. X = replicate number.

LAB QUALIFIERS:

*	Replicate analysis not within control limits.
+	Correlation coefficient for MSA < 0.995.
>	Result above upper detection limit.
A	TIC is a suspected aldol-condensation product.
B	Inorganic: Result is between the IDL and CRDL. Organic & Radiochemistry: Analyte also found in method blank.
C	Pesticide result confirmed by GC-MS.
D	Analyte determined in diluted sample.
E	Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
H	Holding time expired, value suspect.
I	Increased detection limit due to required dilution.
J	Estimated
M	GFAA duplicate injection precision not met.
N	Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compund (TIC).
P	> 25% difference in detected pesticide or Aroclor concentrations between 2 columns.
S	Result determined by method of standard addition (MSA).
U	Analytical result below detection limit.
W	Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
X	Laboratory defined qualifier, see case narrative.
Y	Laboratory defined qualifier, see case narrative.
Z	Laboratory defined qualifier, see case narrative.

DATA QUALIFIERS:

F	Low flow sampling method used.
J	Estimated value.
N	Presumptive evidence that analyte is present. The analyte is "tentatively identified".
R	Unusable result.
X	Location is undefined.
G	Possible grout contamination, pH > 9.
L	Less than 3 bore volumes purged prior to sampling.
Q	Qualitative result due to sampling technique
U	Parameter analyzed for but was not detected.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

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Appendix B

Groundwater Monitoring Results

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CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE SAL01, Salmon Site
REPORT DATE: 11/29/2017 9:56 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Chloride	mg/L	Bx.Cty WL #370007-04	WL	10/16/2014	N001			3.00			#	0.067	-
	mg/L	Bx.Cty WL #370007-04	WL	10/16/2014	N002			3.00			#	0.067	-
	mg/L	Bx.Cty WL #370007-04	WL	04/06/2016	N001			2.92			#	0.067	-
	mg/L	E-7	WL	10/16/2014	0001	CK		307		F	#	3.35	-
	mg/L	E-7	WL	04/05/2016	0001	CK		376		F	#	3.35	-
	mg/L	HM-1	WL	10/14/2014	N001	A1		15.7		F	#	1.34	-
	mg/L	HM-1	WL	04/04/2016	N001	A1		15.2		F	#	1.34	-
	mg/L	HM-2A	WL	10/14/2014	N001	2A		6.01		F	#	0.067	-
	mg/L	HM-2A	WL	04/05/2016	N001	2A		6.12		F	#	0.067	-
	mg/L	HM-2B	WL	10/14/2014	N001	2B		13.5		F	#	1.34	-
	mg/L	HM-2B	WL	04/04/2016	N001	2B		14.0		F	#	1.34	-
	mg/L	HM-3	WL	10/15/2014	N001	3A		172		F	#	1.34	-
	mg/L	HM-3	WL	04/04/2016	N001	3A		152		F	#	3.35	-
	mg/L	HMH-16R	WL	10/15/2014	0001	AL		149		FQ	#	1.34	-
	mg/L	HMH-16R	WL	04/06/2016	N001	AL		152		FQ	#	1.34	-
	mg/L	HMH-5R	WL	10/16/2014	0001	AL		93.3		F	#	1.34	-
	mg/L	HMH-5R	WL	04/06/2016	N001	AL		130		F	#	1.34	-
	mg/L	HM-L	WL	10/14/2014	N001	LA		142		F	#	1.34	-
	mg/L	HM-L	WL	04/05/2016	N001	LA		138		F	#	1.34	-
	mg/L	HM-L2	WL	10/15/2014	N001	LA		9.61		F	#	1.34	-
	mg/L	HM-L2	WL	04/06/2016	N001	LA		9.82		F	#	1.34	-
	mg/L	HM-S	WL	10/14/2014	N001	AL		157		F	#	1.34	-
	mg/L	HM-S	WL	04/05/2016	0001	AL		140		F	#	1.34	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE SAL01, Salmon Site
REPORT DATE: 11/29/2017 9:56 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Chloride	mg/L	Purvis Cty Supply WL	WL	10/16/2014	N001			3.29			#	0.067	-
	mg/L	Purvis Cty Supply WL	WL	04/06/2016	N001			3.19			#	0.067	-
	mg/L	SA1-11-3	WL	10/17/2014	N001	3A		80.0		F	#	1.34	-
	mg/L	SA1-11-3	WL	04/05/2016	N001	3A		77.0		F	#	1.34	-
	mg/L	SA1-12-H	WL	10/16/2014	N001	AL		35.9		FQ	#	1.34	-
	mg/L	SA1-12-H	WL	04/06/2016	N001	AL		28.1		F	#	0.335	-
	mg/L	SA1-12-L	WL	10/16/2014	N001	LA		51.8		FQ	#	1.34	-
	mg/L	SA1-12-L	WL	04/06/2016	N001	LA		4.39		FQ	#	0.067	-
	mg/L	SA1-1-H	WL	10/15/2014	N001	AL		101		F	#	1.34	-
	mg/L	SA1-1-H	WL	04/04/2016	N001	AL		56.4		F	#	0.67	-
	mg/L	SA1-2-H	WL	10/15/2014	N001	AL		255		F	#	3.35	-
	mg/L	SA1-2-H	WL	10/15/2014	N002	AL		247		F	#	3.35	-
	mg/L	SA1-2-H	WL	04/04/2016	0001	AL		254		F	#	3.35	-
	mg/L	SA1-3-H	WL	10/15/2014	0001	AL		141		F	#	1.34	-
	mg/L	SA1-3-H	WL	04/04/2016	0001	AL		268		F	#	3.35	-
	mg/L	SA1-4-H	WL	10/16/2014	N001	AL		45.3		F	#	1.34	-
	mg/L	SA1-4-H	WL	04/04/2016	N001	AL		50.1		F	#	0.67	-
	mg/L	SA1-5-H	WL	10/15/2014	N001	AL		94.2		F	#	1.34	-
	mg/L	SA1-5-H	WL	04/04/2016	N001	AL		97.0		F	#	3.35	-
	mg/L	SA1-6-H	WL	10/16/2014	0001	AL		5.62		F	#	0.067	-
	mg/L	SA1-6-H	WL	04/05/2016	0001	AL		2.97		F	#	0.067	-
	mg/L	SA1-6-H	WL	04/05/2016	0002	AL		2.88		F	#	0.067	-
	mg/L	SA1-7-H	WL	10/16/2014	N001	AL		52.2		F	#	1.34	-
	mg/L	SA1-7-H	WL	04/05/2016	0001	AL		35.7		F	#	1.34	-
	mg/L	SA1-7-H	WL	04/05/2016	0002	AL		34.7		F	#	1.34	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE SAL01, Salmon Site
REPORT DATE: 11/29/2017 9:56 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Chloride	mg/L	SA1-8-L	WL	10/17/2014	N001	LA		3.38		F	#	0.067	-
	mg/L	SA1-8-L	WL	04/05/2016	N001	LA		3.38		F	#	0.067	-
	mg/L	SA2-1-L	WL	10/17/2014	N001	LA		4.54		F	#	1.34	-
	mg/L	SA2-1-L	WL	04/06/2016	N001	LA		3.60		F	#	0.067	-
	mg/L	SA2-2-L	WL	10/17/2014	N001	LA		0.693		FQ	#	0.067	-
	mg/L	SA2-2-L	WL	04/06/2016	N001	LA		0.679		FQ	#	0.067	-
	mg/L	SA2-4-L	WL	10/17/2014	N001	LA		5.36		F	#	1.34	-
	mg/L	SA2-4-L	WL	04/05/2016	N001	LA		4.52		F	#	0.067	-
	mg/L	SA2-6-H	WL	10/17/2014	0001	AL		2.20		F	#	0.067	-
	mg/L	SA2-6-H	WL	04/05/2016	N001	AL		2.24		F	#	0.067	-
	mg/L	SA2-6-L	WL	10/17/2014	N001	LA		11.2		F	#	1.34	-
	mg/L	SA2-6-L	WL	04/06/2016	N001	LA		28.8		F	#	1.34	-
	mg/L	SA3-11-3	WL	10/16/2014	N001	3A		925		F	#	13.4	-
	mg/L	SA3-11-3	WL	04/05/2016	N001	3A		885		F	#	13.4	-
	mg/L	SA3-4-H	WL	10/15/2014	N001	AL		22.3		F	#	1.34	-
	mg/L	SA3-4-H	WL	04/05/2016	N001	AL		14.8		F	#	1.34	-
	mg/L	SA3-4-L	WL	10/15/2014	N001	LA		8.10		F	#	0.067	-
	mg/L	SA3-4-L	WL	04/05/2016	N001	LA		12.9		FQ	#	1.34	-
	mg/L	SA4-5-L	WL	10/15/2014	N001	LA		9.56		FQ	#	1.34	-
	mg/L	SA4-5-L	WL	10/15/2014	N002	LA		9.52		FQ	#	0.067	-
	mg/L	SA4-5-L	WL	04/06/2016	N001	LA		23.8		FQ	#	1.34	-
	mg/L	SA5-4-4	WL	10/14/2014	N001	A4		1420			#	13.4	-
	mg/L	SA5-4-4	WL	04/04/2016	N001	A4		1270			#	13.4	-
	mg/L	SA5-5-4	WL	10/15/2014	N001	A4		831			#	13.4	-
	mg/L	SA5-5-4	WL	04/04/2016	N001	A4		820			#	13.4	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE SAL01, Salmon Site
REPORT DATE: 11/29/2017 9:56 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Chloride	mg/L	Well North Lumberton	WL	10/16/2014	N001			2.45			#	0.067	-
	mg/L	Well North Lumberton	WL	04/06/2016	N001			2.35			#	0.067	-
Chlorine-36/35 Mass Ratio	Unitless	Bx.Cty WL #370007-04	WL	10/16/2014	N003			0.00000			#	-	-
	Unitless	E-7	WL	10/16/2014	N003	CK		0.00000			#	-	-
	Unitless	HM-1	WL	10/14/2014	N003	A1		0.00000			#	-	-
	Unitless	HM-2A	WL	10/14/2014	N003	2A		0.00000			#	-	-
	Unitless	HM-2B	WL	10/14/2014	N003	2B		0.00000			#	-	-
	Unitless	HM-3	WL	10/15/2014	N003	3A		0.00000			#	-	-
	Unitless	HM-L	WL	10/14/2014	N003	LA		0.00000			#	-	-
	Unitless	HM-S	WL	10/14/2014	N003	AL		0.00000			#	-	-
	Unitless	Purvis Cty Supply WL	WL	10/16/2014	N003			0.00000			#	-	-
	Unitless	SA5-4-4	WL	10/14/2014	N003	A4		0.00000			#	-	-
	Unitless	SA5-5-4	WL	10/15/2014	N003	A4		0.00000			#	-	-
	Unitless	Well North Lumberton	WL	10/16/2014	N003			0.00000			#	-	-
Chromium	mg/L	HM-3	WL	10/15/2014	N001	3A		0.103		F	#	0.001	-
	mg/L	HM-3	WL	04/04/2016	N001	3A		0.0966		F	#	0.001	-
	mg/L	HMH-16R	WL	10/15/2014	0001	AL		0.00100	U	FQ	#	0.001	-
	mg/L	HMH-16R	WL	04/06/2016	N001	AL		0.00100	U	FQ	#	0.001	-
	mg/L	HMH-5R	WL	10/16/2014	0001	AL		0.00100	U	F	#	0.001	-
	mg/L	HMH-5R	WL	04/06/2016	N001	AL		0.00100	U	F	#	0.001	-
	mg/L	HM-L	WL	10/14/2014	N001	LA		0.00100	U	F	#	0.001	-
	mg/L	HM-L	WL	04/05/2016	N001	LA		0.00257	B	F	#	0.001	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE SAL01, Salmon Site
REPORT DATE: 11/29/2017 9:56 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Chromium	mg/L	HM-L2	WL	10/15/2014	N001	LA		0.00100	U	F	#	0.001	-
	mg/L	HM-L2	WL	04/06/2016	N001	LA		0.00100	U	F	#	0.001	-
	mg/L	HM-S	WL	10/14/2014	N001	AL		0.00100	U	F	#	0.001	-
	mg/L	HM-S	WL	04/05/2016	0001	AL		0.00100	U	F	#	0.001	-
	mg/L	SA1-11-3	WL	10/17/2014	N001	3A		0.00100	U	F	#	0.001	-
	mg/L	SA1-11-3	WL	04/05/2016	N001	3A		0.00100	U	F	#	0.001	-
	mg/L	SA1-12-H	WL	10/16/2014	N001	AL		0.00100	U	FQ	#	0.001	-
	mg/L	SA1-12-H	WL	04/06/2016	N001	AL		0.00100	U	F	#	0.001	-
	mg/L	SA1-1-H	WL	10/15/2014	N001	AL		0.00100	U	F	#	0.001	-
	mg/L	SA1-1-H	WL	04/04/2016	N001	AL		0.00100	U	F	#	0.001	-
	mg/L	SA1-2-H	WL	10/15/2014	N001	AL		0.00100	U	F	#	0.001	-
	mg/L	SA1-2-H	WL	10/15/2014	N002	AL		0.00100	U	F	#	0.001	-
	mg/L	SA1-2-H	WL	04/04/2016	0001	AL		0.00100	U	F	#	0.001	-
	mg/L	SA1-3-H	WL	10/15/2014	0001	AL		0.00413	B	F	#	0.001	-
	mg/L	SA1-3-H	WL	04/04/2016	0001	AL		0.00100	U	F	#	0.001	-
	mg/L	SA1-4-H	WL	10/16/2014	N001	AL		0.00100	U	F	#	0.001	-
	mg/L	SA1-4-H	WL	04/04/2016	N001	AL		0.00308	B	F	#	0.001	-
	mg/L	SA1-5-H	WL	10/15/2014	N001	AL		0.00100	U	F	#	0.001	-
	mg/L	SA1-5-H	WL	04/04/2016	N001	AL		0.00100	U	F	#	0.001	-
	mg/L	SA1-6-H	WL	10/16/2014	0001	AL		0.00100	U	F	#	0.001	-
	mg/L	SA1-6-H	WL	04/05/2016	0001	AL		0.00100	U	F	#	0.001	-
	mg/L	SA1-6-H	WL	04/05/2016	0002	AL		0.00100	U	F	#	0.001	-
	mg/L	SA1-7-H	WL	10/16/2014	N001	AL		0.00100	U	F	#	0.001	-
	mg/L	SA1-7-H	WL	04/05/2016	0001	AL		0.00100	U	F	#	0.001	-
	mg/L	SA1-7-H	WL	04/05/2016	0002	AL		0.001	B	F	#	0.001	-
	mg/L	SA1-8-L	WL	10/17/2014	N001	LA		0.00100	U	F	#	0.001	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE SAL01, Salmon Site
REPORT DATE: 11/29/2017 9:56 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Chromium	mg/L	SA1-8-L	WL	04/05/2016	N001	LA		0.00100	U	F	#	0.001	-
	mg/L	SA2-1-L	WL	10/17/2014	N001	LA		0.00100	U	F	#	0.001	-
	mg/L	SA2-1-L	WL	04/06/2016	N001	LA		0.00100	U	F	#	0.001	-
	mg/L	SA2-2-L	WL	10/17/2014	N001	LA		0.0137		FQ	#	0.001	-
	mg/L	SA2-2-L	WL	04/06/2016	N001	LA		0.0166		FQ	#	0.001	-
	mg/L	SA2-4-L	WL	10/17/2014	N001	LA		0.00100	U	F	#	0.001	-
	mg/L	SA2-4-L	WL	04/05/2016	N001	LA		0.00100	U	F	#	0.001	-
	mg/L	SA3-11-3	WL	10/16/2014	N001	3A		0.00100	U	F	#	0.001	-
	mg/L	SA3-11-3	WL	04/05/2016	N001	3A		0.00100	U	F	#	0.001	-
	mg/L	SA3-4-H	WL	10/15/2014	N001	AL		0.00100	U	F	#	0.001	-
	mg/L	SA3-4-H	WL	04/05/2016	N001	AL		0.00100	U	F	#	0.001	-
	mg/L	SA4-5-L	WL	10/15/2014	N001	LA		0.00237	B	FQ	#	0.001	-
	mg/L	SA4-5-L	WL	10/15/2014	N002	LA		0.00229	B	FQ	#	0.001	-
	mg/L	SA4-5-L	WL	04/06/2016	N001	LA		0.0317		FQ	#	0.001	-
cis-1,2-Dichloroethene	ug/L	HMH-16R	WL	10/15/2014	N001	AL		0.300	U	FQ	#	0.3	-
	ug/L	HMH-16R	WL	04/06/2016	N001	AL		0.300	U	FQ	#	0.3	-
	ug/L	HMH-5R	WL	10/16/2014	N001	AL		108	E	JF	#	0.3	-
	ug/L	HMH-5R	WL	04/06/2016	N001	AL		72.3		F	#	0.3	-
	ug/L	HM-L	WL	10/14/2014	N001	LA		6.08		F	#	0.3	-
	ug/L	HM-L	WL	04/05/2016	N001	LA		5.59		F	#	0.3	-
	ug/L	HM-S	WL	10/14/2014	N001	AL		8.72		F	#	0.3	-
	ug/L	HM-S	WL	04/05/2016	N001	AL		5.13		F	#	0.3	-
	ug/L	SA1-12-H	WL	10/16/2014	N001	AL		0.300	U	FQ	#	0.3	-
	ug/L	SA1-12-H	WL	04/06/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-12-L	WL	10/16/2014	N001	LA		0.300	U	FQ	#	0.3	-
	ug/L	SA1-12-L	WL	04/06/2016	N001	LA		0.300	U	FQ	#	0.3	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
cis-1,2-Dichloroethene	ug/L	SA1-1-H	WL	10/15/2014	N001	AL		12.9		F	#	0.3	-
	ug/L	SA1-1-H	WL	04/04/2016	N001	AL		3.56		F	#	0.3	-
	ug/L	SA1-2-H	WL	10/15/2014	N001	AL		8.32		F	#	0.3	-
	ug/L	SA1-2-H	WL	10/15/2014	N002	AL		8.95		F	#	0.3	-
	ug/L	SA1-2-H	WL	04/04/2016	N001	AL		7.08		F	#	0.3	-
	ug/L	SA1-3-H	WL	10/15/2014	N001	AL		68.1		JF	#	0.3	-
	ug/L	SA1-3-H	WL	04/04/2016	N001	AL		24.4		F	#	0.3	-
	ug/L	SA1-4-H	WL	10/16/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-4-H	WL	04/04/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-5-H	WL	10/15/2014	N001	AL		9.16		F	#	0.3	-
	ug/L	SA1-5-H	WL	04/04/2016	N001	AL		15.8		F	#	0.3	-
	ug/L	SA1-6-H	WL	10/16/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-6-H	WL	04/05/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-7-H	WL	10/16/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-7-H	WL	04/05/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-7-H	WL	04/05/2016	N002	AL		0.300	U	F	#	0.3	-
	ug/L	SA2-6-H	WL	10/17/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA2-6-H	WL	04/05/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA2-6-L	WL	10/17/2014	N001	LA		0.300	U	F	#	0.3	-
	ug/L	SA2-6-L	WL	04/06/2016	N001	LA		0.300	U	F	#	0.3	-
	ug/L	SA3-4-H	WL	10/15/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA3-4-H	WL	04/05/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA3-4-L	WL	10/15/2014	N001	LA		0.300	U	F	#	0.3	-
	ug/L	SA3-4-L	WL	04/05/2016	N001	LA		0.300	U	FQ	#	0.3	-
Dissolved Oxygen	mg/L	Bx.Cty WL #370007-04	WL	10/16/2014	N001			7.99			#	-	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE SAL01, Salmon Site
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PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Dissolved Oxygen	mg/L	Bx.Cty WL #370007-04	WL	04/06/2016	N001			8.90			#	-	-
	mg/L	E-7	WL	10/16/2014	N001	CK		0.92		F	#	-	-
	mg/L	HM-1	WL	10/14/2014	N001	A1		0.23		F	#	-	-
	mg/L	HM-2A	WL	10/14/2014	N001	2A		0.15		F	#	-	-
	mg/L	HM-2B	WL	10/14/2014	N001	2B		0.24		F	#	-	-
	mg/L	HM-3	WL	10/15/2014	N001	3A		0.26		F	#	-	-
	mg/L	HMH-16R	WL	10/15/2014	N001	AL		1.37		FQ	#	-	-
	mg/L	HMH-16R	WL	04/06/2016	N001	AL		3.53		FQ	#	-	-
	mg/L	HMH-5R	WL	10/16/2014	N001	AL		1.34		F	#	-	-
	mg/L	HMH-5R	WL	04/06/2016	N001	AL		0.68		F	#	-	-
	mg/L	HM-L	WL	10/14/2014	N001	LA		2.31		F	#	-	-
	mg/L	HM-L2	WL	10/15/2014	N001	LA		1.12		F	#	-	-
	mg/L	HM-L2	WL	04/06/2016	N001	LA		2.98		F	#	-	-
	mg/L	HM-S	WL	10/14/2014	N001	AL		0.39		F	#	-	-
	mg/L	Purvis Cty Supply WL	WL	04/06/2016	N001			3.37			#	-	-
	mg/L	SA1-11-3	WL	10/17/2014	N001	3A		0.68		F	#	-	-
	mg/L	SA1-12-H	WL	10/16/2014	N001	AL		0.92		FQ	#	-	-
	mg/L	SA1-12-L	WL	10/16/2014	N001	LA		0.70		FQ	#	-	-
	mg/L	SA1-1-H	WL	10/15/2014	N001	AL		0.33		F	#	-	-
	mg/L	SA1-2-H	WL	10/15/2014	N001	AL		0.55		F	#	-	-
	mg/L	SA1-3-H	WL	10/15/2014	N001	AL		0.85		F	#	-	-
	mg/L	SA1-4-H	WL	10/16/2014	N001	AL		0.35		F	#	-	-
	mg/L	SA1-5-H	WL	10/15/2014	N001	AL		0.55		F	#	-	-
	mg/L	SA1-6-H	WL	10/16/2014	N001	AL		0.51		F	#	-	-
	mg/L	SA1-6-H	WL	04/05/2016	N001	AL		0.44		F	#	-	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE SAL01, Salmon Site
REPORT DATE: 11/29/2017 9:56 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Dissolved Oxygen	mg/L	SA1-7-H	WL	10/16/2014	N001	AL		0.71		F	#	-	-
	mg/L	SA1-7-H	WL	04/05/2016	N001	AL		0.58		F	#	-	-
	mg/L	SA1-8-L	WL	10/17/2014	N001	LA		0.58		F	#	-	-
	mg/L	SA2-1-L	WL	10/17/2014	N001	LA		2.32		JF	#	-	-
	mg/L	SA2-1-L	WL	04/06/2016	N001	LA		3.70		F	#	-	-
	mg/L	SA2-2-L	WL	10/17/2014	N001	LA		7.14		JFQ	#	-	-
	mg/L	SA2-4-L	WL	10/17/2014	N001	LA		0.81		JF	#	-	-
	mg/L	SA2-4-L	WL	04/05/2016	N001	LA		0.28		F	#	-	-
	mg/L	SA2-6-H	WL	10/17/2014	N001	AL		1.02		JF	#	-	-
	mg/L	SA2-6-H	WL	04/05/2016	N001	AL		4.78		F	#	-	-
	mg/L	SA2-6-L	WL	10/17/2014	N001	LA		0.80		F	#	-	-
	mg/L	SA2-6-L	WL	04/06/2016	N001	LA		0.24		F	#	-	-
	mg/L	SA3-11-3	WL	10/16/2014	N001	3A		0.36		F	#	-	-
	mg/L	SA3-4-H	WL	10/15/2014	N001	AL		0.76		F	#	-	-
	mg/L	SA3-4-L	WL	10/15/2014	N001	LA		0.46		F	#	-	-
	mg/L	Well North Lumberton	WL	04/06/2016	N001			3.98			#	-	-
Enriched Tritium	pCi/L	E-7	WL	10/16/2014	N001	CK		2.55	U	F	#	2.73	± 1.72
	pCi/L	E-7	WL	04/05/2016	N001	CK		1.08	U	F	#	2.85	± 1.74
	pCi/L	HM-1	WL	10/14/2014	N001	A1		4.01		JF	#	2.91	± 1.94
	pCi/L	HM-1	WL	04/04/2016	N001	A1		3.62		UF	#	3.4	± 2.62
	pCi/L	HM-2A	WL	10/14/2014	N001	2A		4.00		JF	#	2.8	± 1.87
	pCi/L	HM-2A	WL	04/05/2016	N001	2A		0.615	U	F	#	3.07	± 1.81
	pCi/L	HM-2B	WL	10/14/2014	N001	2B		3.72		JF	#	3.18	± 2.01
	pCi/L	HM-2B	WL	04/04/2016	N001	2B		5.48		FJ	#	3.43	± 3.22
	pCi/L	HM-3	WL	10/15/2014	N001	3A		1.91	U	F	#	2.73	± 1.67

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE SAL01, Salmon Site
REPORT DATE: 11/29/2017 9:56 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Enriched Tritium	pCi/L	HM-3	WL	04/04/2016	N001	3A		0.576	U	F	#	3.04	± 1.80
	pCi/L	HM-S	WL	10/14/2014	N001	AL		183		F	#	2.8	± 39.3
	pCi/L	HM-S	WL	04/05/2016	N001	AL		165		F	#	3.52	± 70.6
	pCi/L	SA1-12-L	WL	10/16/2014	N001	LA		0.163	U	FQ	#	2.9	± 1.65
	pCi/L	SA1-12-L	WL	04/06/2016	N001	LA		1.53	U	FQ	#	2.82	± 1.80
	pCi/L	SA2-6-H	WL	10/17/2014	N001	AL		1.09	U	F	#	2.7	± 1.60
	pCi/L	SA2-6-H	WL	04/05/2016	N001	AL		-0.218	U	F	#	3.32	± 1.87
	pCi/L	SA2-6-L	WL	10/17/2014	N001	LA		4.62		JF	#	2.63	± 1.93
	pCi/L	SA2-6-L	WL	04/06/2016	N001	LA		2.35	U	F	#	2.69	± 1.73
	pCi/L	SA3-4-L	WL	10/15/2014	N001	LA		-0.31	U	F	#	2.85	± 1.58
	pCi/L	SA3-4-L	WL	04/05/2016	N001	LA		1.34	U	FQ	#	2.94	± 1.77
	pCi/L	SA5-4-4	WL	10/14/2014	N001	A4		13.4			#	2.85	± 3.59
	pCi/L	SA5-4-4	WL	04/04/2016	N001	A4		2.29	U		#	2.62	± 1.69
	pCi/L	SA5-5-4	WL	10/15/2014	N001	A4		1.40	U		#	2.79	± 1.68
	pCi/L	SA5-5-4	WL	04/04/2016	N001	A4		2.14	U		#	2.84	± 1.78
Lead	mg/L	HM-3	WL	10/15/2014	N001	3A		0.00054	B	F	#	0.0005	-
	mg/L	HM-3	WL	04/04/2016	N001	3A		0.00106	B	F	#	0.0005	-
	mg/L	HMH-16R	WL	10/15/2014	0001	AL		0.00050	U	FQ	#	0.0005	-
	mg/L	HMH-16R	WL	04/06/2016	N001	AL		0.00050	U	FQ	#	0.0005	-
	mg/L	HMH-5R	WL	10/16/2014	0001	AL		0.00061	B	F	#	0.0005	-
	mg/L	HMH-5R	WL	04/06/2016	N001	AL		0.00050	U	F	#	0.0005	-
	mg/L	HM-L	WL	10/14/2014	N001	LA		0.00050	U	F	#	0.0005	-
	mg/L	HM-L	WL	04/05/2016	N001	LA		0.00050	U	F	#	0.0005	-
	mg/L	HM-L2	WL	10/15/2014	N001	LA		0.00103	B	F	#	0.0005	-
	mg/L	HM-L2	WL	04/06/2016	N001	LA		0.00127	B	F	#	0.0005	-
	mg/L	HM-S	WL	10/14/2014	N001	AL		0.00050	U	F	#	0.0005	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Lead	mg/L	HM-S	WL	04/05/2016	0001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-11-3	WL	10/17/2014	N001	3A		0.00050	U	F	#	0.0005	-
	mg/L	SA1-11-3	WL	04/05/2016	N001	3A		0.00050	U	F	#	0.0005	-
	mg/L	SA1-12-H	WL	10/16/2014	N001	AL		0.00050	U	FQ	#	0.0005	-
	mg/L	SA1-12-H	WL	04/06/2016	N001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-1-H	WL	10/15/2014	N001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-1-H	WL	04/04/2016	N001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-2-H	WL	10/15/2014	N001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-2-H	WL	10/15/2014	N002	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-2-H	WL	04/04/2016	0001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-3-H	WL	10/15/2014	0001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-3-H	WL	04/04/2016	0001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-4-H	WL	10/16/2014	N001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-4-H	WL	04/04/2016	N001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-5-H	WL	10/15/2014	N001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-5-H	WL	04/04/2016	N001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-6-H	WL	10/16/2014	0001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-6-H	WL	04/05/2016	0001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-6-H	WL	04/05/2016	0002	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-7-H	WL	10/16/2014	N001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-7-H	WL	04/05/2016	0001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-7-H	WL	04/05/2016	0002	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA1-8-L	WL	10/17/2014	N001	LA		0.00050	U	F	#	0.0005	-
	mg/L	SA1-8-L	WL	04/05/2016	N001	LA		0.00050	U	F	#	0.0005	-
	mg/L	SA2-1-L	WL	10/17/2014	N001	LA		0.00050	U	F	#	0.0005	-
	mg/L	SA2-1-L	WL	04/06/2016	N001	LA		0.00050	U	F	#	0.0005	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Lead	mg/L	SA2-2-L	WL	10/17/2014	N001	LA		0.00489		FQ	#	0.0005	-
	mg/L	SA2-2-L	WL	04/06/2016	N001	LA		0.00375		FQ	#	0.0005	-
	mg/L	SA2-4-L	WL	10/17/2014	N001	LA		0.00050	U	F	#	0.0005	-
	mg/L	SA2-4-L	WL	04/05/2016	N001	LA		0.00050	U	F	#	0.0005	-
	mg/L	SA3-11-3	WL	10/16/2014	N001	3A		0.00050	U	F	#	0.0005	-
	mg/L	SA3-11-3	WL	04/05/2016	N001	3A		0.00050	U	F	#	0.0005	-
	mg/L	SA3-4-H	WL	10/15/2014	N001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA3-4-H	WL	04/05/2016	N001	AL		0.00050	U	F	#	0.0005	-
	mg/L	SA4-5-L	WL	10/15/2014	N001	LA		0.00069	B	FQ	#	0.0005	-
	mg/L	SA4-5-L	WL	10/15/2014	N002	LA		0.00068	B	FQ	#	0.0005	-
	mg/L	SA4-5-L	WL	04/06/2016	N001	LA		0.00085	B	FQ	#	0.0005	-
Magnesium	mg/L	Bx.Cty WL #370007-04	WL	10/16/2014	N001			0.537			#	0.11	-
	mg/L	Bx.Cty WL #370007-04	WL	10/16/2014	N002			0.553			#	0.11	-
	mg/L	Bx.Cty WL #370007-04	WL	04/06/2016	N001			0.491			#	0.11	-
	mg/L	E-7	WL	10/16/2014	0001	CK		1.200		F	#	0.11	-
	mg/L	E-7	WL	04/05/2016	0001	CK		0.830		F	#	0.11	-
	mg/L	HM-1	WL	10/14/2014	N001	A1		0.398		F	#	0.11	-
	mg/L	HM-1	WL	04/04/2016	N001	A1		0.422		F	#	0.11	-
	mg/L	HM-2A	WL	10/14/2014	N001	2A		1.440		F	#	0.11	-
	mg/L	HM-2A	WL	04/05/2016	N001	2A		1.290		F	#	0.11	-
	mg/L	HM-2B	WL	10/14/2014	N001	2B		0.312		F	#	0.11	-
	mg/L	HM-2B	WL	04/04/2016	N001	2B		0.266	B	F	#	0.11	-
	mg/L	HM-3	WL	10/15/2014	N001	3A		0.538		F	#	0.11	-
	mg/L	HM-3	WL	04/04/2016	N001	3A		0.310		F	#	0.11	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Magnesium	mg/L	HMH-16R	WL	10/15/2014	0001	AL		23.200		FQ	#	0.11	-
	mg/L	HMH-16R	WL	04/06/2016	N001	AL		13.200		FQ	#	0.11	-
	mg/L	HMH-5R	WL	10/16/2014	0001	AL		5.310		F	#	0.11	-
	mg/L	HMH-5R	WL	04/06/2016	N001	AL		4.830		F	#	0.11	-
	mg/L	HM-L	WL	10/14/2014	N001	LA		1.320		F	#	0.11	-
	mg/L	HM-L	WL	04/05/2016	N001	LA		1.210		F	#	0.11	-
	mg/L	HM-L2	WL	10/15/2014	N001	LA		6.100		F	#	0.11	-
	mg/L	HM-L2	WL	04/06/2016	N001	LA		5.740		F	#	0.11	-
	mg/L	HM-S	WL	10/14/2014	N001	AL		9.320		F	#	0.11	-
	mg/L	HM-S	WL	04/05/2016	0001	AL		7.690		F	#	0.11	-
	mg/L	Purvis Cty Supply WL	WL	10/16/2014	N001			0.357			#	0.11	-
	mg/L	Purvis Cty Supply WL	WL	04/06/2016	N001			0.336			#	0.11	-
	mg/L	SA1-11-3	WL	10/17/2014	N001	3A		2.720		F	#	0.11	-
	mg/L	SA1-11-3	WL	04/05/2016	N001	3A		2.690		F	#	0.11	-
	mg/L	SA1-12-H	WL	10/16/2014	N001	AL		9.360		FQ	#	0.11	-
	mg/L	SA1-12-H	WL	04/06/2016	N001	AL		2.720		F	#	0.11	-
	mg/L	SA1-12-L	WL	10/16/2014	N001	LA		8.290		FQ	#	0.11	-
	mg/L	SA1-12-L	WL	04/06/2016	N001	LA		7.020		FQ	#	0.11	-
	mg/L	SA1-1-H	WL	10/15/2014	N001	AL		6.350		F	#	0.11	-
	mg/L	SA1-1-H	WL	04/04/2016	N001	AL		4.110		F	#	0.11	-
	mg/L	SA1-2-H	WL	10/15/2014	N001	AL		10.800		F	#	0.11	-
	mg/L	SA1-2-H	WL	10/15/2014	N002	AL		10.400		F	#	0.11	-
	mg/L	SA1-2-H	WL	04/04/2016	0001	AL		6.640		F	#	0.11	-
	mg/L	SA1-3-H	WL	10/15/2014	0001	AL		8.690		F	#	0.11	-
	mg/L	SA1-3-H	WL	04/04/2016	0001	AL		11.200		F	#	0.11	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Magnesium	mg/L	SA1-4-H	WL	10/16/2014	N001	AL		3.950		F	#	0.11	-
	mg/L	SA1-4-H	WL	04/04/2016	N001	AL		8.300		F	#	0.11	-
	mg/L	SA1-5-H	WL	10/15/2014	N001	AL		6.940		F	#	0.11	-
	mg/L	SA1-5-H	WL	04/04/2016	N001	AL		3.510		F	#	0.11	-
	mg/L	SA1-6-H	WL	10/16/2014	0001	AL		1.140		F	#	0.11	-
	mg/L	SA1-6-H	WL	04/05/2016	0001	AL		0.628		F	#	0.11	-
	mg/L	SA1-6-H	WL	04/05/2016	0002	AL		0.600		F	#	0.11	-
	mg/L	SA1-7-H	WL	10/16/2014	N001	AL		3.810		F	#	0.11	-
	mg/L	SA1-7-H	WL	04/05/2016	0001	AL		4.240		F	#	0.11	-
	mg/L	SA1-7-H	WL	04/05/2016	0002	AL		4.020		F	#	0.11	-
	mg/L	SA1-8-L	WL	10/17/2014	N001	LA		4.270		F	#	0.11	-
	mg/L	SA1-8-L	WL	04/05/2016	N001	LA		4.080		F	#	0.11	-
	mg/L	SA2-1-L	WL	10/17/2014	N001	LA		1.400		F	#	0.11	-
	mg/L	SA2-1-L	WL	04/06/2016	N001	LA		1.330		F	#	0.11	-
	mg/L	SA2-2-L	WL	10/17/2014	N001	LA		0.110	U	FQ	#	0.11	-
	mg/L	SA2-2-L	WL	04/06/2016	N001	LA		0.110	U	FQ	#	0.11	-
	mg/L	SA2-4-L	WL	10/17/2014	N001	LA		1.920		F	#	0.11	-
	mg/L	SA2-4-L	WL	04/05/2016	N001	LA		2.110		F	#	0.11	-
	mg/L	SA2-6-H	WL	10/17/2014	0001	AL		0.779		F	#	0.11	-
	mg/L	SA2-6-H	WL	04/05/2016	N001	AL		1.220		F	#	0.11	-
	mg/L	SA2-6-L	WL	10/17/2014	N001	LA		2.200		F	#	0.11	-
	mg/L	SA2-6-L	WL	04/06/2016	N001	LA		4.170		F	#	0.11	-
	mg/L	SA3-11-3	WL	10/16/2014	N001	3A		2.510		F	#	0.11	-
	mg/L	SA3-11-3	WL	04/05/2016	N001	3A		2.130		F	#	0.11	-
	mg/L	SA3-4-H	WL	10/15/2014	N001	AL		11.100		F	#	0.11	-
	mg/L	SA3-4-H	WL	04/05/2016	N001	AL		4.530		F	#	0.11	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Magnesium	mg/L	SA3-4-L	WL	10/15/2014	N001	LA		1.570		F	#	0.11	-
	mg/L	SA3-4-L	WL	04/05/2016	N001	LA		2.040		FQ	#	0.11	-
	mg/L	SA4-5-L	WL	10/15/2014	N001	LA		2.010		FQ	#	0.11	-
	mg/L	SA4-5-L	WL	10/15/2014	N002	LA		2.080		FQ	#	0.11	-
	mg/L	SA4-5-L	WL	04/06/2016	N001	LA		0.110	U	FQ	#	0.11	-
	mg/L	SA5-4-4	WL	10/14/2014	N001	A4		0.892			#	0.11	-
	mg/L	SA5-4-4	WL	04/04/2016	N001	A4		0.930			#	0.11	-
	mg/L	SA5-5-4	WL	10/15/2014	N001	A4		1.110			#	0.11	-
	mg/L	SA5-5-4	WL	04/04/2016	N001	A4		1.120			#	0.11	-
	mg/L	Well North Lumberton	WL	10/16/2014	N001			0.758			#	0.11	-
	mg/L	Well North Lumberton	WL	04/06/2016	N001			0.748			#	0.11	-
Oxidation Reduction Potential	mV	Bx.Cty WL #370007-04	WL	10/16/2014	N001			207.2			#	-	-
	mV	Bx.Cty WL #370007-04	WL	04/06/2016	N001			231.0			#	-	-
	mV	E-7	WL	10/16/2014	N001	CK		-355.9		F	#	-	-
	mV	E-7	WL	04/05/2016	N001	CK		-300		F	#	-	-
	mV	HM-1	WL	10/14/2014	N001	A1		-164.8		F	#	-	-
	mV	HM-1	WL	04/04/2016	N001	A1		-195		F	#	-	-
	mV	HM-2A	WL	10/14/2014	N001	2A		-148.6		F	#	-	-
	mV	HM-2A	WL	04/05/2016	N001	2A		-165		F	#	-	-
	mV	HM-2B	WL	10/14/2014	N001	2B		-224.0		F	#	-	-
	mV	HM-2B	WL	04/04/2016	N001	2B		-257		F	#	-	-
	mV	HM-3	WL	10/15/2014	N001	3A		-276.3		F	#	-	-
	mV	HM-3	WL	04/04/2016	N001	3A		-263		F	#	-	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Oxidation Reduction Potential	mV	HMH-16R	WL	10/15/2014	N001	AL		-90.0		FQ	#	-	-
	mV	HMH-16R	WL	04/06/2016	N001	AL		149.3		FQ	#	-	-
	mV	HMH-5R	WL	10/16/2014	N001	AL		35.8		F	#	-	-
	mV	HMH-5R	WL	04/06/2016	N001	AL		50.7		F	#	-	-
	mV	HM-L	WL	10/14/2014	N001	LA		-26.4		F	#	-	-
	mV	HM-L	WL	04/05/2016	N001	LA		-142.6		F	#	-	-
	mV	HM-L2	WL	10/15/2014	N001	LA		48.3		F	#	-	-
	mV	HM-L2	WL	04/06/2016	N001	LA		112		F	#	-	-
	mV	HM-S	WL	10/14/2014	N001	AL		-16.3		F	#	-	-
	mV	HM-S	WL	04/05/2016	N001	AL		0		F	#	-	-
	mV	Purvis Cty Supply WL	WL	04/06/2016	N001			35.5			#	-	-
	mV	SA1-11-3	WL	10/17/2014	N001	3A		-286.6		F	#	-	-
	mV	SA1-11-3	WL	04/05/2016	N001	3A		-305		F	#	-	-
	mV	SA1-12-H	WL	10/16/2014	N001	AL		-113.4		FQ	#	-	-
	mV	SA1-12-H	WL	04/06/2016	N001	AL		50		F	#	-	-
	mV	SA1-12-L	WL	10/16/2014	N001	LA		-152.6		FQ	#	-	-
	mV	SA1-12-L	WL	04/06/2016	N001	LA		-190		FQ	#	-	-
	mV	SA1-1-H	WL	10/15/2014	N001	AL		-32.3		F	#	-	-
	mV	SA1-1-H	WL	04/04/2016	N001	AL		25.5		F	#	-	-
	mV	SA1-2-H	WL	10/15/2014	N001	AL		-21.6		F	#	-	-
	mV	SA1-2-H	WL	04/04/2016	N001	AL		0.9		F	#	-	-
	mV	SA1-3-H	WL	10/15/2014	N001	AL		-74.6		F	#	-	-
	mV	SA1-3-H	WL	04/04/2016	N001	AL		-79.4		F	#	-	-
	mV	SA1-4-H	WL	10/16/2014	N001	AL		1.8		F	#	-	-
	mV	SA1-4-H	WL	04/04/2016	N001	AL		46.3		F	#	-	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Oxidation Reduction Potential	mV	SA1-5-H	WL	10/15/2014	N001	AL		-34.2		F	#	-	-
	mV	SA1-5-H	WL	04/04/2016	N001	AL		76.4		F	#	-	-
	mV	SA1-6-H	WL	10/16/2014	N001	AL		-29.5		F	#	-	-
	mV	SA1-6-H	WL	04/05/2016	N001	AL		7.9		F	#	-	-
	mV	SA1-7-H	WL	10/16/2014	N001	AL		-46.9		F	#	-	-
	mV	SA1-7-H	WL	04/05/2016	N001	AL		-27.5		F	#	-	-
	mV	SA1-8-L	WL	10/17/2014	N001	LA		-66.3		F	#	-	-
	mV	SA1-8-L	WL	04/05/2016	N001	LA		-50		F	#	-	-
	mV	SA2-1-L	WL	10/17/2014	N001	LA		-77.2		F	#	-	-
	mV	SA2-1-L	WL	04/06/2016	N001	LA		52		F	#	-	-
	mV	SA2-2-L	WL	10/17/2014	N001	LA		-122.9		FQ	#	-	-
	mV	SA2-2-L	WL	04/06/2016	N001	LA		-110		FQ	#	-	-
	mV	SA2-4-L	WL	10/17/2014	N001	LA		77.1		F	#	-	-
	mV	SA2-4-L	WL	04/05/2016	N001	LA		-47.7		F	#	-	-
	mV	SA2-6-H	WL	10/17/2014	N001	AL		-14.5		F	#	-	-
	mV	SA2-6-H	WL	04/05/2016	N001	AL		199.6		F	#	-	-
	mV	SA2-6-L	WL	10/17/2014	N001	LA		-204.8		F	#	-	-
	mV	SA2-6-L	WL	04/06/2016	N001	LA		-73.5		F	#	-	-
	mV	SA3-11-3	WL	10/16/2014	N001	3A		-256.2		F	#	-	-
	mV	SA3-11-3	WL	04/05/2016	N001	3A		-245		F	#	-	-
	mV	SA3-4-H	WL	10/15/2014	N001	AL		90.9		F	#	-	-
	mV	SA3-4-H	WL	04/05/2016	N001	AL		90		F	#	-	-
	mV	SA3-4-L	WL	10/15/2014	N001	LA		-188.1		F	#	-	-
	mV	SA3-4-L	WL	04/05/2016	N001	LA		-160		FQ	#	-	-
	mV	SA4-5-L	WL	04/06/2016	N001	LA		-110		FQ	#	-	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Oxidation Reduction Potential	mV	SA5-4-4	WL	10/14/2014	N001	A4		-244.5			#	-	-
	mV	SA5-4-4	WL	04/04/2016	N001	A4		-265			#	-	-
	mV	SA5-5-4	WL	04/04/2016	N001	A4		-257			#	-	-
	mV	Well North Lumberton	WL	04/06/2016	N001			41.6			#	-	-
pH	s.u.	Bx.Cty WL #370007-04	WL	10/16/2014	N001			5.45			#	-	-
	s.u.	Bx.Cty WL #370007-04	WL	04/06/2016	N001			6.37			#	-	-
	s.u.	E-7	WL	10/16/2014	N001	CK		7.27		F	#	-	-
	s.u.	E-7	WL	04/05/2016	N001	CK		7.61		F	#	-	-
	s.u.	HM-1	WL	10/14/2014	N001	A1		8.92		F	#	-	-
	s.u.	HM-1	WL	04/04/2016	N001	A1		8.94		F	#	-	-
	s.u.	HM-2A	WL	10/14/2014	N001	2A		7.14		F	#	-	-
	s.u.	HM-2A	WL	04/05/2016	N001	2A		7.34		F	#	-	-
	s.u.	HM-2B	WL	10/14/2014	N001	2B		9.59		F	#	-	-
	s.u.	HM-2B	WL	04/04/2016	N001	2B		9.82		F	#	-	-
	s.u.	HM-3	WL	10/15/2014	N001	3A		9.08		F	#	-	-
	s.u.	HM-3	WL	04/04/2016	N001	3A		9.57		F	#	-	-
	s.u.	HMH-16R	WL	10/15/2014	N001	AL		6.95		FQ	#	-	-
	s.u.	HMH-16R	WL	04/06/2016	N001	AL		6.53		FQ	#	-	-
	s.u.	HMH-5R	WL	10/16/2014	N001	AL		5.66		F	#	-	-
	s.u.	HMH-5R	WL	04/06/2016	N001	AL		5.49		F	#	-	-
	s.u.	HM-L	WL	10/14/2014	N001	LA		8.60		F	#	-	-
	s.u.	HM-L	WL	04/05/2016	N001	LA		8.74		F	#	-	-
	s.u.	HM-L2	WL	10/15/2014	N001	LA		7.56		F	#	-	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
pH	s.u.	HM-L2	WL	04/06/2016	N001	LA		7.68		F	#	-	-
	s.u.	HM-S	WL	10/14/2014	N001	AL		5.78		F	#	-	-
	s.u.	HM-S	WL	04/05/2016	N001	AL		5.97		F	#	-	-
	s.u.	Purvis Cty Supply WL	WL	10/16/2014	N001			6.68			#	-	-
	s.u.	Purvis Cty Supply WL	WL	04/06/2016	N001			6.76			#	-	-
	s.u.	SA1-11-3	WL	10/17/2014	N001	3A		8.21		F	#	-	-
	s.u.	SA1-11-3	WL	04/05/2016	N001	3A		8.33		F	#	-	-
	s.u.	SA1-12-H	WL	10/16/2014	N001	AL		7.04		FQ	#	-	-
	s.u.	SA1-12-H	WL	04/06/2016	N001	AL		7.21		F	#	-	-
	s.u.	SA1-12-L	WL	10/16/2014	N001	LA		7.71		FQ	#	-	-
	s.u.	SA1-12-L	WL	04/06/2016	N001	LA		8.35		FQ	#	-	-
	s.u.	SA1-1-H	WL	10/15/2014	N001	AL		6.00		F	#	-	-
	s.u.	SA1-1-H	WL	04/04/2016	N001	AL		5.80		F	#	-	-
	s.u.	SA1-2-H	WL	10/15/2014	N001	AL		5.90		F	#	-	-
	s.u.	SA1-2-H	WL	04/04/2016	N001	AL		5.91		F	#	-	-
	s.u.	SA1-3-H	WL	10/15/2014	N001	AL		6.59		F	#	-	-
	s.u.	SA1-3-H	WL	04/04/2016	N001	AL		6.47		F	#	-	-
	s.u.	SA1-4-H	WL	10/16/2014	N001	AL		5.75		F	#	-	-
	s.u.	SA1-4-H	WL	04/04/2016	N001	AL		5.57		F	#	-	-
	s.u.	SA1-5-H	WL	10/15/2014	N001	AL		6.03		F	#	-	-
	s.u.	SA1-5-H	WL	04/04/2016	N001	AL		5.98		F	#	-	-
	s.u.	SA1-6-H	WL	10/16/2014	N001	AL		5.86		F	#	-	-
	s.u.	SA1-6-H	WL	04/05/2016	N001	AL		5.89		F	#	-	-
	s.u.	SA1-7-H	WL	10/16/2014	N001	AL		5.88		F	#	-	-
	s.u.	SA1-7-H	WL	04/05/2016	N001	AL		5.90		F	#	-	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE SAL01, Salmon Site
REPORT DATE: 11/29/2017 9:56 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
pH	s.u.	SA1-8-L	WL	10/17/2014	N001	LA		6.79		F	#	-	-
	s.u.	SA1-8-L	WL	04/05/2016	N001	LA		6.90		F	#	-	-
	s.u.	SA2-1-L	WL	10/17/2014	N001	LA		8.83		F	#	-	-
	s.u.	SA2-1-L	WL	04/06/2016	N001	LA		9.12		F	#	-	-
	s.u.	SA2-2-L	WL	10/17/2014	N001	LA		12.35		FQ	#	-	-
	s.u.	SA2-2-L	WL	04/06/2016	N001	LA		12.70		FQ	#	-	-
	s.u.	SA2-4-L	WL	10/17/2014	N001	LA		8.04		F	#	-	-
	s.u.	SA2-4-L	WL	04/05/2016	N001	LA		7.77		F	#	-	-
	s.u.	SA2-6-H	WL	10/17/2014	N001	AL		6.11		F	#	-	-
	s.u.	SA2-6-H	WL	04/05/2016	N001	AL		6.31		F	#	-	-
	s.u.	SA2-6-L	WL	10/17/2014	N001	LA		9.02		F	#	-	-
	s.u.	SA2-6-L	WL	04/06/2016	N001	LA		6.55		F	#	-	-
	s.u.	SA3-11-3	WL	10/16/2014	N001	3A		7.53		F	#	-	-
	s.u.	SA3-11-3	WL	04/05/2016	N001	3A		8.33		F	#	-	-
	s.u.	SA3-4-H	WL	10/15/2014	N001	AL		6.56		F	#	-	-
	s.u.	SA3-4-H	WL	04/05/2016	N001	AL		6.45		F	#	-	-
	s.u.	SA3-4-L	WL	10/15/2014	N001	LA		7.57		F	#	-	-
	s.u.	SA3-4-L	WL	04/05/2016	N001	LA		7.58		FQ	#	-	-
	s.u.	SA4-5-L	WL	10/15/2014	N001	LA		10.18		FQ	#	-	-
	s.u.	SA4-5-L	WL	04/06/2016	N001	LA		12.34		FQ	#	-	-
	s.u.	SA5-4-4	WL	10/14/2014	N001	A4		8.59			#	-	-
	s.u.	SA5-4-4	WL	04/04/2016	N001	A4		8.78			#	-	-
	s.u.	SA5-5-4	WL	10/15/2014	N001	A4		8.63			#	-	-
	s.u.	SA5-5-4	WL	04/04/2016	N001	A4		8.79			#	-	-
	s.u.	Well North Lumberton	WL	10/16/2014	N001			6.95			#	-	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE SAL01, Salmon Site
REPORT DATE: 11/29/2017 9:56 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
pH	s.u.	Well North Lumberton	WL	04/06/2016	N001			6.30			#	-	-
Potassium	mg/L	Bx.Cty WL #370007-04	WL	10/16/2014	N001			0.458			#	0.05	-
	mg/L	Bx.Cty WL #370007-04	WL	10/16/2014	N002			0.481			#	0.05	-
	mg/L	Bx.Cty WL #370007-04	WL	04/06/2016	N001			0.473			#	0.05	-
	mg/L	E-7	WL	10/16/2014	0001	CK		1.990		F	#	0.05	-
	mg/L	E-7	WL	04/05/2016	0001	CK		2.290		F	#	0.05	-
	mg/L	HM-1	WL	10/14/2014	N001	A1		3.080		F	#	0.05	-
	mg/L	HM-1	WL	04/04/2016	N001	A1		3.350		F	#	0.05	-
	mg/L	HM-2A	WL	10/14/2014	N001	2A		3.780		F	#	0.05	-
	mg/L	HM-2A	WL	04/05/2016	N001	2A		4.020		F	#	0.05	-
	mg/L	HM-2B	WL	10/14/2014	N001	2B		2.930		F	#	0.05	-
	mg/L	HM-2B	WL	04/04/2016	N001	2B		3.220		F	#	0.05	-
	mg/L	HM-3	WL	10/15/2014	N001	3A		5.090		F	#	0.05	-
	mg/L	HM-3	WL	04/04/2016	N001	3A		5.080		F	#	0.05	-
	mg/L	HMH-16R	WL	10/15/2014	0001	AL		3.800		FQ	#	0.05	-
	mg/L	HMH-16R	WL	04/06/2016	N001	AL		3.200		FQ	#	0.05	-
	mg/L	HMH-5R	WL	10/16/2014	0001	AL		1.690		F	#	0.05	-
	mg/L	HMH-5R	WL	04/06/2016	N001	AL		1.780		F	#	0.05	-
	mg/L	HM-L	WL	10/14/2014	N001	LA		6.880		F	#	0.05	-
	mg/L	HM-L	WL	04/05/2016	N001	LA		7.420		F	#	0.05	-
	mg/L	HM-L2	WL	10/15/2014	N001	LA		2.720		F	#	0.05	-
	mg/L	HM-L2	WL	04/06/2016	N001	LA		3.050		F	#	0.05	-
	mg/L	HM-S	WL	10/14/2014	N001	AL		4.290		JF	#	0.05	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Potassium	mg/L	HM-S	WL	04/05/2016	0001	AL		4.390		F	#	0.05	-
	mg/L	Purvis Cty Supply WL	WL	10/16/2014	N001			1.840			#	0.05	-
	mg/L	Purvis Cty Supply WL	WL	04/06/2016	N001			1.880			#	0.05	-
	mg/L	SA1-11-3	WL	10/17/2014	N001	3A		3.600		F	#	0.05	-
	mg/L	SA1-11-3	WL	04/05/2016	N001	3A		3.910		F	#	0.05	-
	mg/L	SA1-12-H	WL	10/16/2014	N001	AL		2.520		FQ	#	0.05	-
	mg/L	SA1-12-H	WL	04/06/2016	N001	AL		3.910		F	#	0.05	-
	mg/L	SA1-12-L	WL	10/16/2014	N001	LA		2.680		FQ	#	0.05	-
	mg/L	SA1-12-L	WL	04/06/2016	N001	LA		2.440		FQ	#	0.05	-
	mg/L	SA1-1-H	WL	10/15/2014	N001	AL		1.860		F	#	0.05	-
	mg/L	SA1-1-H	WL	04/04/2016	N001	AL		2.100		F	#	0.05	-
	mg/L	SA1-2-H	WL	10/15/2014	N001	AL		4.380		F	#	0.05	-
	mg/L	SA1-2-H	WL	10/15/2014	N002	AL		4.230		F	#	0.05	-
	mg/L	SA1-2-H	WL	04/04/2016	0001	AL		2.080		F	#	0.05	-
	mg/L	SA1-3-H	WL	10/15/2014	0001	AL		10.700		F	#	0.05	-
	mg/L	SA1-3-H	WL	04/04/2016	0001	AL		4.830		F	#	0.05	-
	mg/L	SA1-4-H	WL	10/16/2014	N001	AL		1.610		F	#	0.05	-
	mg/L	SA1-4-H	WL	04/04/2016	N001	AL		10.200		F	#	0.05	-
	mg/L	SA1-5-H	WL	10/15/2014	N001	AL		3.370		F	#	0.05	-
	mg/L	SA1-5-H	WL	04/04/2016	N001	AL		1.760		F	#	0.05	-
	mg/L	SA1-6-H	WL	10/16/2014	0001	AL		0.622		F	#	0.05	-
	mg/L	SA1-6-H	WL	04/05/2016	0001	AL		0.574		F	#	0.05	-
	mg/L	SA1-6-H	WL	04/05/2016	0002	AL		0.595		F	#	0.05	-
	mg/L	SA1-7-H	WL	10/16/2014	N001	AL		1.160		F	#	0.05	-
	mg/L	SA1-7-H	WL	04/05/2016	0001	AL		1.210		F	#	0.05	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Potassium	mg/L	SA1-7-H	WL	04/05/2016	0002	AL		1.200		F	#	0.05	-
	mg/L	SA1-8-L	WL	10/17/2014	N001	LA		2.120		F	#	0.05	-
	mg/L	SA1-8-L	WL	04/05/2016	N001	LA		2.220		F	#	0.05	-
	mg/L	SA2-1-L	WL	10/17/2014	N001	LA		5.250		F	#	0.05	-
	mg/L	SA2-1-L	WL	04/06/2016	N001	LA		5.380		F	#	0.05	-
	mg/L	SA2-2-L	WL	10/17/2014	N001	LA		8.250		FQ	#	0.25	-
	mg/L	SA2-2-L	WL	04/06/2016	N001	LA		8.880		FQ	#	0.05	-
	mg/L	SA2-4-L	WL	10/17/2014	N001	LA		2.250		F	#	0.05	-
	mg/L	SA2-4-L	WL	04/05/2016	N001	LA		2.560		F	#	0.05	-
	mg/L	SA2-6-H	WL	10/17/2014	0001	AL		1.530		F	#	0.05	-
	mg/L	SA2-6-H	WL	04/05/2016	N001	AL		1.680		F	#	0.05	-
	mg/L	SA2-6-L	WL	10/17/2014	N001	LA		2.770		F	#	0.05	-
	mg/L	SA2-6-L	WL	04/06/2016	N001	LA		2.300		F	#	0.05	-
	mg/L	SA3-11-3	WL	10/16/2014	N001	3A		9.280		F	#	0.05	-
	mg/L	SA3-11-3	WL	04/05/2016	N001	3A		9.480		F	#	0.5	-
	mg/L	SA3-4-H	WL	10/15/2014	N001	AL		2.070		F	#	0.05	-
	mg/L	SA3-4-H	WL	04/05/2016	N001	AL		1.300		F	#	0.05	-
	mg/L	SA3-4-L	WL	10/15/2014	N001	LA		1.980		F	#	0.05	-
	mg/L	SA3-4-L	WL	04/05/2016	N001	LA		1.470		FQ	#	0.05	-
	mg/L	SA4-5-L	WL	10/15/2014	N001	LA		10.700		FQ	#	0.05	-
	mg/L	SA4-5-L	WL	10/15/2014	N002	LA		10.900		FQ	#	0.05	-
	mg/L	SA4-5-L	WL	04/06/2016	N001	LA		11.100		FQ	#	0.05	-
	mg/L	SA5-4-4	WL	10/14/2014	N001	A4		2.960			#	0.05	-
	mg/L	SA5-4-4	WL	04/04/2016	N001	A4		2.960			#	0.5	-
	mg/L	SA5-5-4	WL	10/15/2014	N001	A4		3.180			#	0.05	-
	mg/L	SA5-5-4	WL	04/04/2016	N001	A4		3.090			#	0.5	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Potassium	mg/L	Well North Lumberton	WL	10/16/2014	N001			1.380			#	0.05	-
	mg/L	Well North Lumberton	WL	04/06/2016	N001			1.410			#	0.05	-
Sodium	mg/L	Bx.Cty WL #370007-04	WL	10/16/2014	N001			2.180			#	0.1	-
	mg/L	Bx.Cty WL #370007-04	WL	10/16/2014	N002			2.240			#	0.1	-
	mg/L	Bx.Cty WL #370007-04	WL	04/06/2016	N001			2.210			#	0.1	-
	mg/L	E-7	WL	10/16/2014	0001	CK		333.000		F	#	0.1	-
	mg/L	E-7	WL	04/05/2016	0001	CK		369.000		F	#	0.1	-
	mg/L	HM-1	WL	10/14/2014	N001	A1		30.900		F	#	0.1	-
	mg/L	HM-1	WL	04/04/2016	N001	A1		31.300		F	#	0.1	-
	mg/L	HM-2A	WL	10/14/2014	N001	2A		15.500		F	#	0.1	-
	mg/L	HM-2A	WL	04/05/2016	N001	2A		15.500		F	#	0.1	-
	mg/L	HM-2B	WL	10/14/2014	N001	2B		98.000		F	#	0.1	-
	mg/L	HM-2B	WL	04/04/2016	N001	2B		97.500		F	#	0.1	-
	mg/L	HM-3	WL	10/15/2014	N001	3A		269.000		F	#	0.1	-
	mg/L	HM-3	WL	04/04/2016	N001	3A		262.000		F	#	0.1	-
	mg/L	HMH-16R	WL	10/15/2014	0001	AL		52.800		FQ	#	0.1	-
	mg/L	HMH-16R	WL	04/06/2016	N001	AL		79.700		FQ	#	0.1	-
	mg/L	HMH-5R	WL	10/16/2014	0001	AL		42.400		F	#	0.1	-
	mg/L	HMH-5R	WL	04/06/2016	N001	AL		63.200		F	#	0.1	-
	mg/L	HM-L	WL	10/14/2014	N001	LA		53.700		F	#	0.1	-
	mg/L	HM-L	WL	04/05/2016	N001	LA		53.700		F	#	0.1	-
	mg/L	HM-L2	WL	10/15/2014	N001	LA		44.600		F	#	0.1	-
	mg/L	HM-L2	WL	04/06/2016	N001	LA		47.200		F	#	0.1	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Sodium	mg/L	HM-S	WL	10/14/2014	N001	AL		181.000		F	#	0.1	-
	mg/L	HM-S	WL	04/05/2016	0001	AL		160.000		F	#	0.1	-
	mg/L	Purvis Cty Supply WL	WL	10/16/2014	N001			21.100			#	0.1	-
	mg/L	Purvis Cty Supply WL	WL	04/06/2016	N001			21.600			#	0.1	-
	mg/L	SA1-11-3	WL	10/17/2014	N001	3A		189.000		F	#	0.1	-
	mg/L	SA1-11-3	WL	04/05/2016	N001	3A		193.000		F	#	0.1	-
	mg/L	SA1-12-H	WL	10/16/2014	N001	AL		20.900		FQ	#	0.1	-
	mg/L	SA1-12-H	WL	04/06/2016	N001	AL		195.000		F	#	0.1	-
	mg/L	SA1-12-L	WL	10/16/2014	N001	LA		80.700		FQ	#	0.1	-
	mg/L	SA1-12-L	WL	04/06/2016	N001	LA		18.900		FQ	#	0.1	-
	mg/L	SA1-1-H	WL	10/15/2014	N001	AL		54.700		F	#	0.1	-
	mg/L	SA1-1-H	WL	04/04/2016	N001	AL		67.900		F	#	0.1	-
	mg/L	SA1-2-H	WL	10/15/2014	N001	AL		230.000		F	#	0.1	-
	mg/L	SA1-2-H	WL	10/15/2014	N002	AL		216.000		F	#	0.1	-
	mg/L	SA1-2-H	WL	04/04/2016	0001	AL		53.100		F	#	0.1	-
	mg/L	SA1-3-H	WL	10/15/2014	0001	AL		165.000		F	#	0.1	-
	mg/L	SA1-3-H	WL	04/04/2016	0001	AL		229.000		F	#	0.1	-
	mg/L	SA1-4-H	WL	10/16/2014	N001	AL		20.100		F	#	0.1	-
	mg/L	SA1-4-H	WL	04/04/2016	N001	AL		220.000		F	#	0.1	-
	mg/L	SA1-5-H	WL	10/15/2014	N001	AL		120.000		F	#	0.1	-
	mg/L	SA1-5-H	WL	04/04/2016	N001	AL		25.600		F	#	0.1	-
	mg/L	SA1-6-H	WL	10/16/2014	0001	AL		5.060		F	#	0.1	-
	mg/L	SA1-6-H	WL	04/05/2016	0001	AL		3.560		F	#	0.1	-
	mg/L	SA1-6-H	WL	04/05/2016	0002	AL		3.580		F	#	0.1	-
	mg/L	SA1-7-H	WL	10/16/2014	N001	AL		85.400		F	#	0.1	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Sodium	mg/L	SA1-7-H	WL	04/05/2016	0001	AL		84.600		F	#	0.1	-
	mg/L	SA1-7-H	WL	04/05/2016	0002	AL		81.600		F	#	0.1	-
	mg/L	SA1-8-L	WL	10/17/2014	N001	LA		18.400		F	#	0.1	-
	mg/L	SA1-8-L	WL	04/05/2016	N001	LA		19.300		F	#	0.1	-
	mg/L	SA2-1-L	WL	10/17/2014	N001	LA		50.500		F	#	0.1	-
	mg/L	SA2-1-L	WL	04/06/2016	N001	LA		49.600		F	#	0.1	-
	mg/L	SA2-2-L	WL	10/17/2014	N001	LA		28.500		FQ	#	0.1	-
	mg/L	SA2-2-L	WL	04/06/2016	N001	LA		27.300		FQ	#	0.1	-
	mg/L	SA2-4-L	WL	10/17/2014	N001	LA		47.800		F	#	0.1	-
	mg/L	SA2-4-L	WL	04/05/2016	N001	LA		48.200		F	#	0.1	-
	mg/L	SA2-6-H	WL	10/17/2014	0001	AL		6.390		F	#	0.1	-
	mg/L	SA2-6-H	WL	04/05/2016	N001	AL		5.430		F	#	0.1	-
	mg/L	SA2-6-L	WL	10/17/2014	N001	LA		37.500		F	#	0.1	-
	mg/L	SA2-6-L	WL	04/06/2016	N001	LA		13.200		F	#	0.1	-
	mg/L	SA3-11-3	WL	10/16/2014	N001	3A		638.000		F	#	1	-
	mg/L	SA3-11-3	WL	04/05/2016	N001	3A		599.000		F	#	1	-
	mg/L	SA3-4-H	WL	10/15/2014	N001	AL		13.200		F	#	0.1	-
	mg/L	SA3-4-H	WL	04/05/2016	N001	AL		10.500		F	#	0.1	-
	mg/L	SA3-4-L	WL	10/15/2014	N001	LA		38.700		F	#	0.1	-
	mg/L	SA3-4-L	WL	04/05/2016	N001	LA		38.900		FQ	#	0.1	-
	mg/L	SA4-5-L	WL	10/15/2014	N001	LA		21.200		FQ	#	0.1	-
	mg/L	SA4-5-L	WL	10/15/2014	N002	LA		21.400		FQ	#	0.1	-
	mg/L	SA4-5-L	WL	04/06/2016	N001	LA		29.700		FQ	#	0.1	-
	mg/L	SA5-4-4	WL	10/14/2014	N001	A4		1130.000			#	1	-
	mg/L	SA5-4-4	WL	04/04/2016	N001	A4		1080.000			#	1	-
	mg/L	SA5-5-4	WL	10/15/2014	N001	A4		824.000			#	1	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Sodium	mg/L	SA5-5-4	WL	04/04/2016	N001	A4		810.000			#	1	-
	mg/L	Well North Lumberton	WL	10/16/2014	N001			35.700			#	0.1	-
	mg/L	Well North Lumberton	WL	04/06/2016	N001			35.800			#	0.1	-
Specific Conductance	umhos/cm	Bx.Cty WL #370007-04	WL	10/16/2014	N001			28			#	-	-
	umhos/cm	Bx.Cty WL #370007-04	WL	04/06/2016	N001			47			#	-	-
	umhos/cm	E-7	WL	10/16/2014	N001	CK		2104		F	#	-	-
	umhos/cm	E-7	WL	04/05/2016	N001	CK		2105		F	#	-	-
	umhos/cm	HM-1	WL	10/14/2014	N001	A1		230		F	#	-	-
	umhos/cm	HM-1	WL	04/04/2016	N001	A1		220		F	#	-	-
	umhos/cm	HM-2A	WL	10/14/2014	N001	2A		160		F	#	-	-
	umhos/cm	HM-2A	WL	04/05/2016	N001	2A		150		F	#	-	-
	umhos/cm	HM-2B	WL	10/14/2014	N001	2B		495		F	#	-	-
	umhos/cm	HM-2B	WL	04/04/2016	N001	2B		480		F	#	-	-
	umhos/cm	HM-3	WL	10/15/2014	N001	3A		1285		F	#	-	-
	umhos/cm	HM-3	WL	04/04/2016	N001	3A		1250		F	#	-	-
	umhos/cm	HMH-16R	WL	10/15/2014	N001	AL		980		FQ	#	-	-
	umhos/cm	HMH-16R	WL	04/06/2016	N001	AL		833		FQ	#	-	-
	umhos/cm	HMH-5R	WL	10/16/2014	N001	AL		463		F	#	-	-
	umhos/cm	HMH-5R	WL	04/06/2016	N001	AL		575		F	#	-	-
	umhos/cm	HM-L	WL	10/14/2014	N001	LA		616		F	#	-	-
	umhos/cm	HM-L	WL	04/05/2016	N001	LA		594		F	#	-	-
	umhos/cm	HM-L2	WL	10/15/2014	N001	LA		416		F	#	-	-
	umhos/cm	HM-L2	WL	04/06/2016	N001	LA		427		F	#	-	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE SAL01, Salmon Site
REPORT DATE: 11/29/2017 9:56 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Specific Conductance	umhos/cm	HM-S	WL	10/14/2014	N001	AL		1316		F	#	-	-
	umhos/cm	HM-S	WL	04/05/2016	N001	AL		1190		F	#	-	-
	umhos/cm	Purvis Cty Supply WL	WL	10/16/2014	N001			117			#	-	-
	umhos/cm	Purvis Cty Supply WL	WL	04/06/2016	N001			131			#	-	-
	umhos/cm	SA1-11-3	WL	10/17/2014	N001	3A		1021		F	#	-	-
	umhos/cm	SA1-11-3	WL	04/05/2016	N001	3A		1010		F	#	-	-
	umhos/cm	SA1-12-H	WL	10/16/2014	N001	AL		368		FQ	#	-	-
	umhos/cm	SA1-12-H	WL	04/06/2016	N001	AL		280		F	#	-	-
	umhos/cm	SA1-12-L	WL	10/16/2014	N001	LA		642		FQ	#	-	-
	umhos/cm	SA1-12-L	WL	04/06/2016	N001	LA		395		FQ	#	-	-
	umhos/cm	SA1-1-H	WL	10/15/2014	N001	AL		573		F	#	-	-
	umhos/cm	SA1-1-H	WL	04/04/2016	N001	AL		646		F	#	-	-
	umhos/cm	SA1-2-H	WL	10/15/2014	N001	AL		1733		F	#	-	-
	umhos/cm	SA1-2-H	WL	04/04/2016	N001	AL		1630		F	#	-	-
	umhos/cm	SA1-3-H	WL	10/15/2014	N001	AL		2449		F	#	-	-
	umhos/cm	SA1-3-H	WL	04/04/2016	N001	AL		2139		F	#	-	-
	umhos/cm	SA1-4-H	WL	10/16/2014	N001	AL		271		F	#	-	-
	umhos/cm	SA1-4-H	WL	04/04/2016	N001	AL		296		F	#	-	-
	umhos/cm	SA1-5-H	WL	10/15/2014	N001	AL		1675		F	#	-	-
	umhos/cm	SA1-5-H	WL	04/04/2016	N001	AL		1468		F	#	-	-
	umhos/cm	SA1-6-H	WL	10/16/2014	N001	AL		215		F	#	-	-
	umhos/cm	SA1-6-H	WL	04/05/2016	N001	AL		161		F	#	-	-
	umhos/cm	SA1-7-H	WL	10/16/2014	N001	AL		891		F	#	-	-
	umhos/cm	SA1-7-H	WL	04/05/2016	N001	AL		1018		F	#	-	-
	umhos/cm	SA1-8-L	WL	10/17/2014	N001	LA		196		F	#	-	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Specific Conductance	umhos/cm	SA1-8-L	WL	04/05/2016	N001	LA		200		F	#	-	-
	umhos/cm	SA2-1-L	WL	10/17/2014	N001	LA		308		F	#	-	-
	umhos/cm	SA2-1-L	WL	04/06/2016	N001	LA		290		F	#	-	-
	umhos/cm	SA2-2-L	WL	10/17/2014	N001	LA		7422		FQ	#	-	-
	umhos/cm	SA2-2-L	WL	04/06/2016	N001	LA		7365		FQ	#	-	-
	umhos/cm	SA2-4-L	WL	10/17/2014	N001	LA		290		F	#	-	-
	umhos/cm	SA2-4-L	WL	04/05/2016	N001	LA		306		F	#	-	-
	umhos/cm	SA2-6-H	WL	10/17/2014	N001	AL		65		F	#	-	-
	umhos/cm	SA2-6-H	WL	04/05/2016	N001	AL		86		F	#	-	-
	umhos/cm	SA2-6-L	WL	10/17/2014	N001	LA		228		F	#	-	-
	umhos/cm	SA2-6-L	WL	04/06/2016	N001	LA		241		F	#	-	-
	umhos/cm	SA3-11-3	WL	10/16/2014	N001	3A		4933		F	#	-	-
	umhos/cm	SA3-11-3	WL	04/05/2016	N001	3A		4695		F	#	-	-
	umhos/cm	SA3-4-H	WL	10/15/2014	N001	AL		471		F	#	-	-
	umhos/cm	SA3-4-H	WL	04/05/2016	N001	AL		245		F	#	-	-
	umhos/cm	SA3-4-L	WL	10/15/2014	N001	LA		243		F	#	-	-
	umhos/cm	SA3-4-L	WL	04/05/2016	N001	LA		270		FQ	#	-	-
	umhos/cm	SA4-5-L	WL	10/15/2014	N001	LA		222		FQ	#	-	-
	umhos/cm	SA4-5-L	WL	04/06/2016	N001	LA		3230		FQ	#	-	-
	umhos/cm	SA5-4-4	WL	10/14/2014	N001	A4		5187			#	-	-
	umhos/cm	SA5-4-4	WL	04/04/2016	N001	A4		4930			#	-	-
	umhos/cm	SA5-5-4	WL	10/15/2014	N001	A4		3593			#	-	-
	umhos/cm	SA5-5-4	WL	04/04/2016	N001	A4		3650			#	-	-
	umhos/cm	Well North Lumberton	WL	10/16/2014	N001			171			#	-	-
	umhos/cm	Well North Lumberton	WL	04/06/2016	N001			184			#	-	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Sulfate	mg/L	Bx.Cty WL #370007-04	WL	10/16/2014	N001			0.273	J		#	0.133	-
	mg/L	Bx.Cty WL #370007-04	WL	10/16/2014	N002			0.276	J		#	0.133	-
	mg/L	Bx.Cty WL #370007-04	WL	04/06/2016	N001			0.327	J		#	0.133	-
	mg/L	E-7	WL	10/16/2014	0001	CK		281		F	#	2.66	-
	mg/L	E-7	WL	04/05/2016	0001	CK		228		F	#	2.66	-
	mg/L	HM-1	WL	10/14/2014	N001	A1		2.01		F	#	0.133	-
	mg/L	HM-1	WL	04/04/2016	N001	A1		1.99		F	#	0.133	-
	mg/L	HM-2A	WL	10/14/2014	N001	2A		0.178	J	F	#	0.133	-
	mg/L	HM-2A	WL	04/05/2016	N001	2A		0.402		F	#	0.133	-
	mg/L	HM-2B	WL	10/14/2014	N001	2B		42.5		F	#	2.66	-
	mg/L	HM-2B	WL	04/04/2016	N001	2B		44.1		F	#	2.66	-
	mg/L	HM-3	WL	10/15/2014	N001	3A		18.7		F	#	2.66	-
	mg/L	HM-3	WL	04/04/2016	N001	3A		4.71		F	#	0.133	-
	mg/L	HMH-16R	WL	10/15/2014	0001	AL		7.02		FQ	#	0.133	-
	mg/L	HMH-16R	WL	04/06/2016	N001	AL		27.3		FQ	#	2.66	-
	mg/L	HMH-5R	WL	10/16/2014	0001	AL		18.7		F	#	2.66	-
	mg/L	HMH-5R	WL	04/06/2016	N001	AL		14.9		F	#	0.133	-
	mg/L	HM-L	WL	10/14/2014	N001	LA		19.9		F	#	2.66	-
	mg/L	HM-L	WL	04/05/2016	N001	LA		19.3		F	#	2.66	-
	mg/L	HM-L2	WL	10/15/2014	N001	LA		24.9		F	#	2.66	-
	mg/L	HM-L2	WL	04/06/2016	N001	LA		24.6		F	#	2.66	-
	mg/L	HM-S	WL	10/14/2014	N001	AL		304		F	#	2.66	-
	mg/L	HM-S	WL	04/05/2016	0001	AL		271		F	#	2.66	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Sulfate	mg/L	Purvis Cty Supply WL	WL	10/16/2014	N001			7.60			#	0.133	-
	mg/L	Purvis Cty Supply WL	WL	04/06/2016	N001			7.51			#	0.133	-
	mg/L	SA1-11-3	WL	10/17/2014	N001	3A		167		F	#	2.66	-
	mg/L	SA1-11-3	WL	04/05/2016	N001	3A		164		F	#	2.66	-
	mg/L	SA1-12-H	WL	10/16/2014	N001	AL		4.56		FQ	#	0.133	-
	mg/L	SA1-12-H	WL	04/06/2016	N001	AL		5.93		F	#	0.133	-
	mg/L	SA1-12-L	WL	10/16/2014	N001	LA		109		FQ	#	2.66	-
	mg/L	SA1-12-L	WL	04/06/2016	N001	LA		13.4		FQ	#	0.133	-
	mg/L	SA1-1-H	WL	10/15/2014	N001	AL		29.8		F	#	2.66	-
	mg/L	SA1-1-H	WL	04/04/2016	N001	AL		140		F	#	1.33	-
	mg/L	SA1-2-H	WL	10/15/2014	N001	AL		343		F	#	2.66	-
	mg/L	SA1-2-H	WL	10/15/2014	N002	AL		336		F	#	2.66	-
	mg/L	SA1-2-H	WL	04/04/2016	0001	AL		323		F	#	6.65	-
	mg/L	SA1-3-H	WL	10/15/2014	0001	AL		1090		F	#	13.3	-
	mg/L	SA1-3-H	WL	04/04/2016	0001	AL		495		F	#	6.65	-
	mg/L	SA1-4-H	WL	10/16/2014	N001	AL		0.444		F	#	0.133	-
	mg/L	SA1-4-H	WL	04/04/2016	N001	AL		1.31		F	#	0.133	-
	mg/L	SA1-5-H	WL	10/15/2014	N001	AL		590		F	#	6.65	-
	mg/L	SA1-5-H	WL	04/04/2016	N001	AL		499		F	#	6.65	-
	mg/L	SA1-6-H	WL	10/16/2014	0001	AL		1.47		F	#	0.133	-
	mg/L	SA1-6-H	WL	04/05/2016	0001	AL		1.49		F	#	0.133	-
	mg/L	SA1-6-H	WL	04/05/2016	0002	AL		1.73		F	#	0.133	-
	mg/L	SA1-7-H	WL	10/16/2014	N001	AL		180		F	#	2.66	-
	mg/L	SA1-7-H	WL	04/05/2016	0001	AL		289		F	#	2.66	-
	mg/L	SA1-7-H	WL	04/05/2016	0002	AL		290		F	#	2.66	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Sulfate	mg/L	SA1-8-L	WL	10/17/2014	N001	LA		2.59		F	#	0.133	-
	mg/L	SA1-8-L	WL	04/05/2016	N001	LA		2.48		F	#	0.133	-
	mg/L	SA2-1-L	WL	10/17/2014	N001	LA		51.9		F	#	2.66	-
	mg/L	SA2-1-L	WL	04/06/2016	N001	LA		51.7		F	#	0.665	-
	mg/L	SA2-2-L	WL	10/17/2014	N001	LA		8.02		FQ	#	2.66	-
	mg/L	SA2-2-L	WL	04/06/2016	N001	LA		8.26		FQ	#	1.33	-
	mg/L	SA2-4-L	WL	10/17/2014	N001	LA		26.4		F	#	2.66	-
	mg/L	SA2-4-L	WL	04/05/2016	N001	LA		33.0		F	#	2.66	-
	mg/L	SA2-6-H	WL	10/17/2014	0001	AL		2.09		F	#	0.133	-
	mg/L	SA2-6-H	WL	04/05/2016	N001	AL		4.95		F	#	0.133	-
	mg/L	SA2-6-L	WL	10/17/2014	N001	LA		6.00		F	#	0.133	-
	mg/L	SA2-6-L	WL	04/06/2016	N001	LA		5.57		F	#	0.133	-
	mg/L	SA3-11-3	WL	10/16/2014	N001	3A		1150		F	#	26.6	-
	mg/L	SA3-11-3	WL	04/05/2016	N001	3A		1130		F	#	26.6	-
	mg/L	SA3-4-H	WL	10/15/2014	N001	AL		5.92		F	#	0.133	-
	mg/L	SA3-4-H	WL	04/05/2016	N001	AL		6.03		F	#	0.133	-
	mg/L	SA3-4-L	WL	10/15/2014	N001	LA		3.58		F	#	0.133	-
	mg/L	SA3-4-L	WL	04/05/2016	N001	LA		12.8		FQ	#	0.133	-
	mg/L	SA4-5-L	WL	10/15/2014	N001	LA		8.42		FQ	#	2.66	-
	mg/L	SA4-5-L	WL	10/15/2014	N002	LA		8.33		FQ	#	0.133	-
	mg/L	SA4-5-L	WL	04/06/2016	N001	LA		6.88		FQ	#	0.133	-
	mg/L	SA5-4-4	WL	10/14/2014	N001	A4		19.1			#	2.66	-
	mg/L	SA5-4-4	WL	04/04/2016	N001	A4		12.5			#	0.133	-
	mg/L	SA5-5-4	WL	10/15/2014	N001	A4		3.30			#	0.133	-
	mg/L	SA5-5-4	WL	04/04/2016	N001	A4		3.25			#	0.133	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE SAL01, Salmon Site
REPORT DATE: 11/29/2017 9:56 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Sulfate	mg/L	Well North Lumberton	WL	10/16/2014	N001			5.73			#	0.133	-
	mg/L	Well North Lumberton	WL	04/06/2016	N001			5.67			#	0.133	-
Temperature	C	Bx.Cty WL #370007-04	WL	10/16/2014	N001			19.44			#	-	-
	C	Bx.Cty WL #370007-04	WL	04/06/2016	N001			19.45			#	-	-
	C	E-7	WL	10/16/2014	N001	CK		20.83		F	#	-	-
	C	E-7	WL	04/05/2016	N001	CK		21.3		F	#	-	-
	C	HM-1	WL	10/14/2014	N001	A1		21.45		F	#	-	-
	C	HM-1	WL	04/04/2016	N001	A1		21.3		F	#	-	-
	C	HM-2A	WL	10/14/2014	N001	2A		21.40		F	#	-	-
	C	HM-2A	WL	04/05/2016	N001	2A		21.1		F	#	-	-
	C	HM-2B	WL	10/14/2014	N001	2B		21.73		F	#	-	-
	C	HM-2B	WL	04/04/2016	N001	2B		22.1		F	#	-	-
	C	HM-3	WL	10/15/2014	N001	3A		22.38		F	#	-	-
	C	HM-3	WL	04/04/2016	N001	3A		22.2		F	#	-	-
	C	HMH-16R	WL	10/15/2014	N001	AL		20.76		FQ	#	-	-
	C	HMH-16R	WL	04/06/2016	N001	AL		18.66		FQ	#	-	-
	C	HMH-5R	WL	10/16/2014	N001	AL		22.20		F	#	-	-
	C	HMH-5R	WL	04/06/2016	N001	AL		18.28		F	#	-	-
	C	HM-L	WL	10/14/2014	N001	LA		21.85		F	#	-	-
	C	HM-L	WL	04/05/2016	N001	LA		20.29		F	#	-	-
	C	HM-L2	WL	10/15/2014	N001	LA		21.23		F	#	-	-
	C	HM-L2	WL	04/06/2016	N001	LA		20.0		F	#	-	-
	C	HM-S	WL	10/14/2014	N001	AL		21.15		F	#	-	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE SAL01, Salmon Site
REPORT DATE: 11/29/2017 9:56 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Temperature	C	HM-S	WL	04/05/2016	N001	AL		18.7		F	#	-	-
	C	Purvis Cty Supply WL	WL	10/16/2014	N001			24.34			#	-	-
	C	Purvis Cty Supply WL	WL	04/06/2016	N001			24.68			#	-	-
	C	SA1-11-3	WL	10/17/2014	N001	3A		20.96		F	#	-	-
	C	SA1-11-3	WL	04/05/2016	N001	3A		21.3		F	#	-	-
	C	SA1-12-H	WL	10/16/2014	N001	AL		19.84		FQ	#	-	-
	C	SA1-12-H	WL	04/06/2016	N001	AL		18.4		F	#	-	-
	C	SA1-12-L	WL	10/16/2014	N001	LA		19.92		FQ	#	-	-
	C	SA1-12-L	WL	04/06/2016	N001	LA		20.1		FQ	#	-	-
	C	SA1-1-H	WL	10/15/2014	N001	AL		21.20		F	#	-	-
	C	SA1-1-H	WL	04/04/2016	N001	AL		19.44		F	#	-	-
	C	SA1-2-H	WL	10/15/2014	N001	AL		20.04		F	#	-	-
	C	SA1-2-H	WL	04/04/2016	N001	AL		18.39		F	#	-	-
	C	SA1-3-H	WL	10/15/2014	N001	AL		19.96		F	#	-	-
	C	SA1-3-H	WL	04/04/2016	N001	AL		20.16		F	#	-	-
	C	SA1-4-H	WL	10/16/2014	N001	AL		20.41		F	#	-	-
	C	SA1-4-H	WL	04/04/2016	N001	AL		19.38		F	#	-	-
	C	SA1-5-H	WL	10/15/2014	N001	AL		20.15		F	#	-	-
	C	SA1-5-H	WL	04/04/2016	N001	AL		19.26		F	#	-	-
	C	SA1-6-H	WL	10/16/2014	N001	AL		24.11		F	#	-	-
	C	SA1-6-H	WL	04/05/2016	N001	AL		20.68		F	#	-	-
	C	SA1-7-H	WL	10/16/2014	N001	AL		23.18		F	#	-	-
	C	SA1-7-H	WL	04/05/2016	N001	AL		20.02		F	#	-	-
	C	SA1-8-L	WL	10/17/2014	N001	LA		21.69		F	#	-	-
	C	SA1-8-L	WL	04/05/2016	N001	LA		21.4		F	#	-	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE SAL01, Salmon Site
REPORT DATE: 11/29/2017 9:56 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Temperature	C	SA2-1-L	WL	10/17/2014	N001	LA		21.24		F	#	-	-
	C	SA2-1-L	WL	04/06/2016	N001	LA		20.2		F	#	-	-
	C	SA2-2-L	WL	10/17/2014	N001	LA		20.67		FQ	#	-	-
	C	SA2-2-L	WL	04/06/2016	N001	LA		20.20		FQ	#	-	-
	C	SA2-4-L	WL	10/17/2014	N001	LA		20.34		F	#	-	-
	C	SA2-4-L	WL	04/05/2016	N001	LA		20.62		F	#	-	-
	C	SA2-6-H	WL	10/17/2014	N001	AL		20.92		F	#	-	-
	C	SA2-6-H	WL	04/05/2016	N001	AL		19.89		F	#	-	-
	C	SA2-6-L	WL	10/17/2014	N001	LA		20.94		F	#	-	-
	C	SA2-6-L	WL	04/06/2016	N001	LA		20.10		F	#	-	-
	C	SA3-11-3	WL	10/16/2014	N001	3A		21.50		F	#	-	-
	C	SA3-11-3	WL	04/05/2016	N001	3A		21.8		F	#	-	-
	C	SA3-4-H	WL	10/15/2014	N001	AL		21.15		F	#	-	-
	C	SA3-4-H	WL	04/05/2016	N001	AL		22.4		F	#	-	-
	C	SA3-4-L	WL	10/15/2014	N001	LA		20.53		F	#	-	-
	C	SA3-4-L	WL	04/05/2016	N001	LA		23.4		FQ	#	-	-
	C	SA4-5-L	WL	10/15/2014	N001	LA		20.79		FQ	#	-	-
	C	SA4-5-L	WL	04/06/2016	N001	LA		20.0		FQ	#	-	-
	C	SA5-4-4	WL	10/14/2014	N001	A4		24.37			#	-	-
	C	SA5-4-4	WL	04/04/2016	N001	A4		23.8			#	-	-
	C	SA5-5-4	WL	10/15/2014	N001	A4		25.95			#	-	-
	C	SA5-5-4	WL	04/04/2016	N001	A4		26.2			#	-	-
	C	Well North Lumberton	WL	10/16/2014	N001			22.92			#	-	-
	C	Well North Lumberton	WL	04/06/2016	N001			22.36			#	-	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Trichloroethene	ug/L	HMH-16R	WL	10/15/2014	N001	AL		0.300	U	FQ	#	0.3	-
	ug/L	HMH-16R	WL	04/06/2016	N001	AL		0.300	U	FQ	#	0.3	-
	ug/L	HMH-5R	WL	10/16/2014	N001	AL		194	E	JF	#	0.3	-
	ug/L	HMH-5R	WL	04/06/2016	N001	AL		68.9		F	#	0.3	-
	ug/L	HM-L	WL	10/14/2014	N001	LA		1.25		F	#	0.3	-
	ug/L	HM-L	WL	04/05/2016	N001	LA		0.840	J	F	#	0.3	-
	ug/L	HM-S	WL	10/14/2014	N001	AL		2.00		F	#	0.3	-
	ug/L	HM-S	WL	04/05/2016	N001	AL		1.36		F	#	0.3	-
	ug/L	SA1-12-H	WL	10/16/2014	N001	AL		0.300	U	FQ	#	0.3	-
	ug/L	SA1-12-H	WL	04/06/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-12-L	WL	10/16/2014	N001	LA		0.300	U	FQ	#	0.3	-
	ug/L	SA1-12-L	WL	04/06/2016	N001	LA		0.300	U	FQ	#	0.3	-
	ug/L	SA1-1-H	WL	10/15/2014	N001	AL		6.10		F	#	0.3	-
	ug/L	SA1-1-H	WL	04/04/2016	N001	AL		1.14		F	#	0.3	-
	ug/L	SA1-2-H	WL	10/15/2014	N001	AL		2.05		F	#	0.3	-
	ug/L	SA1-2-H	WL	10/15/2014	N002	AL		2.06		F	#	0.3	-
	ug/L	SA1-2-H	WL	04/04/2016	N001	AL		1.94		F	#	0.3	-
	ug/L	SA1-3-H	WL	10/15/2014	N001	AL		1.38		JF	#	0.3	-
	ug/L	SA1-3-H	WL	04/04/2016	N001	AL		1.09		F	#	0.3	-
	ug/L	SA1-4-H	WL	10/16/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-4-H	WL	04/04/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-5-H	WL	10/15/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-5-H	WL	04/04/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-6-H	WL	10/16/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-6-H	WL	04/05/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-7-H	WL	10/16/2014	N001	AL		0.300	U	F	#	0.3	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Trichloroethene	ug/L	SA1-7-H	WL	04/05/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-7-H	WL	04/05/2016	N002	AL		0.300	U	F	#	0.3	-
	ug/L	SA2-6-H	WL	10/17/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA2-6-H	WL	04/05/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA2-6-L	WL	10/17/2014	N001	LA		0.300	U	F	#	0.3	-
	ug/L	SA2-6-L	WL	04/06/2016	N001	LA		0.300	U	F	#	0.3	-
	ug/L	SA3-4-H	WL	10/15/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA3-4-H	WL	04/05/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA3-4-L	WL	10/15/2014	N001	LA		0.300	U	F	#	0.3	-
	ug/L	SA3-4-L	WL	04/05/2016	N001	LA		0.300	U	FQ	#	0.3	-
Tritium	pCi/L	HMH-16R	WL	10/15/2014	N001	AL		64.9	U	FQ	#	368	± 212.
	pCi/L	HMH-16R	WL	04/06/2016	N001	AL		132	U	FQ	#	339	± 201.
	pCi/L	HMH-5R	WL	10/16/2014	N001	AL		2730		F	#	360	± 620.
	pCi/L	HMH-5R	WL	04/06/2016	N001	AL		1530		F	#	335	± 395.
	pCi/L	HM-L	WL	10/14/2014	N001	LA		613		JF	#	354	± 261.
	pCi/L	HM-L	WL	04/05/2016	N001	LA		582		F	#	399	± 280.
	pCi/L	HM-L2	WL	10/15/2014	N001	LA		15.2	U	F	#	312	± 175.
	pCi/L	HM-L2	WL	04/06/2016	N001	LA		206	U	F	#	341	± 208.
	pCi/L	SA1-11-3	WL	10/17/2014	N001	3A		43.9	U	F	#	327	± 186.
	pCi/L	SA1-11-3	WL	04/05/2016	N001	3A		70.3	U	F	#	328	± 190.
	pCi/L	SA1-12-H	WL	10/16/2014	N001	AL		-25.9	U	FQ	#	322	± 178.
	pCi/L	SA1-12-H	WL	04/06/2016	N001	AL		-4.29	U	F	#	343	± 194.
	pCi/L	SA1-1-H	WL	10/15/2014	N001	AL		4210		F	#	376	± 920.
	pCi/L	SA1-1-H	WL	04/04/2016	N001	AL		2200		F	#	343	± 514.
	pCi/L	SA1-2-H	WL	10/15/2014	N001	AL		361	U	F	#	376	± 246.
	pCi/L	SA1-2-H	WL	10/15/2014	N002	AL		396		JF	#	372	± 244.

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Tritium	pCi/L	SA1-2-H	WL	04/04/2016	N001	AL		567		FJ	#	340	± 247.
	pCi/L	SA1-3-H	WL	10/15/2014	N001	AL		8.69	U	F	#	324	± 182.
	pCi/L	SA1-3-H	WL	04/04/2016	N001	AL		295	U	F	#	340	± 216.
	pCi/L	SA1-4-H	WL	10/16/2014	N001	AL		-60.9	U	F	#	327	± 179.
	pCi/L	SA1-4-H	WL	04/04/2016	N001	AL		-42.9	U	F	#	343	± 193.
	pCi/L	SA1-5-H	WL	10/15/2014	N001	AL		97.9	U	F	#	320	± 187.
	pCi/L	SA1-5-H	WL	04/04/2016	N001	AL		-72.1	U	F	#	338	± 189.
	pCi/L	SA1-6-H	WL	10/16/2014	N001	AL		240	U	F	#	320	± 200.
	pCi/L	SA1-6-H	WL	04/05/2016	N001	AL		-71.4	U	F	#	339	± 190.
	pCi/L	SA1-6-H	WL	04/05/2016	N002	AL		127	U	F	#	335	± 198.
	pCi/L	SA1-7-H	WL	10/16/2014	N001	AL		-5.07	U	F	#	315	± 176.
	pCi/L	SA1-7-H	WL	04/05/2016	N001	AL		8.81	U	F	#	341	± 195.
	pCi/L	SA1-7-H	WL	04/05/2016	N002	AL		49.6	U	F	#	342	± 197.
	pCi/L	SA1-8-L	WL	10/17/2014	N001	LA		-100	U	F	#	324	± 174.
	pCi/L	SA1-8-L	WL	04/05/2016	N001	LA		-75	U	F	#	341	± 190.
	pCi/L	SA2-1-L	WL	10/17/2014	N001	LA		-38.9	U	F	#	317	± 175.
	pCi/L	SA2-1-L	WL	04/06/2016	N001	LA		-103	U	F	#	341	± 189.
	pCi/L	SA2-2-L	WL	10/17/2014	N001	LA		-61	U	FQ	#	328	± 179.
	pCi/L	SA2-2-L	WL	04/06/2016	N001	LA		-74.9	U	FQ	#	341	± 191.
	pCi/L	SA2-4-L	WL	10/17/2014	N001	LA		136	U	F	#	366	± 216.
	pCi/L	SA2-4-L	WL	04/05/2016	N001	LA		-52.5	U	F	#	337	± 190.
	pCi/L	SA3-11-3	WL	10/16/2014	N001	3A		237	U	F	#	364	± 224.
	pCi/L	SA3-11-3	WL	04/05/2016	N001	3A		-89.2	U	F	#	338	± 189.
	pCi/L	SA3-4-H	WL	10/15/2014	N001	AL		110	U	F	#	371	± 217.
	pCi/L	SA3-4-H	WL	04/05/2016	N001	AL		-51.7	U	F	#	339	± 191.
	pCi/L	SA4-5-L	WL	10/15/2014	N001	LA		58.9	U	FQ	#	374	± 215.

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Tritium	pCi/L	SA4-5-L	WL	10/15/2014	N002	LA		31.2	U	FQ	#	370	± 211.
	pCi/L	SA4-5-L	WL	04/06/2016	N001	LA		76.8	U	FQ	#	341	± 198.
Turbidity	NTU	Bx.Cty WL #370007-04	WL	10/16/2014	N001			0.39			#	-	-
	NTU	Bx.Cty WL #370007-04	WL	04/06/2016	N001			0.99			#	-	-
	NTU	E-7	WL	10/16/2014	N001	CK		93.5		F	#	-	-
	NTU	E-7	WL	04/05/2016	N001	CK		36.4		F	#	-	-
	NTU	HM-1	WL	10/14/2014	N001	A1		1.54		F	#	-	-
	NTU	HM-1	WL	04/04/2016	N001	A1		1.00		F	#	-	-
	NTU	HM-2A	WL	10/14/2014	N001	2A		1.03		F	#	-	-
	NTU	HM-2A	WL	04/05/2016	N001	2A		1.51		F	#	-	-
	NTU	HM-2B	WL	10/14/2014	N001	2B		2.27		F	#	-	-
	NTU	HM-2B	WL	04/04/2016	N001	2B		1.53		F	#	-	-
	NTU	HM-3	WL	10/15/2014	N001	3A		1.89		F	#	-	-
	NTU	HM-3	WL	04/04/2016	N001	3A		1.86		F	#	-	-
	NTU	HMH-16R	WL	10/15/2014	N001	AL		13.0		FQ	#	-	-
	NTU	HMH-16R	WL	04/06/2016	N001	AL		0.80		FQ	#	-	-
	NTU	HMH-5R	WL	10/16/2014	N001	AL		29.0		F	#	-	-
	NTU	HMH-5R	WL	04/06/2016	N001	AL		0.64		F	#	-	-
	NTU	HM-L	WL	10/14/2014	N001	LA		1.72		F	#	-	-
	NTU	HM-L	WL	04/05/2016	N001	LA		0.58		F	#	-	-
	NTU	HM-L2	WL	10/15/2014	N001	LA		6.16		F	#	-	-
	NTU	HM-L2	WL	04/06/2016	N001	LA		3.43		F	#	-	-
	NTU	HM-S	WL	10/14/2014	N001	AL		9.40		F	#	-	-
	NTU	HM-S	WL	04/05/2016	N001	AL		109.0		F	#	-	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Turbidity	NTU	Purvis Cty Supply WL	WL	10/16/2014	N001			3.61			#	-	-
	NTU	Purvis Cty Supply WL	WL	04/06/2016	N001			1.07			#	-	-
	NTU	SA1-11-3	WL	10/17/2014	N001	3A		1.45		F	#	-	-
	NTU	SA1-11-3	WL	04/05/2016	N001	3A		0.75		F	#	-	-
	NTU	SA1-12-H	WL	10/16/2014	N001	AL		6.47		FQ	#	-	-
	NTU	SA1-12-H	WL	04/06/2016	N001	AL		4.96		F	#	-	-
	NTU	SA1-12-L	WL	10/16/2014	N001	LA		1.48		FQ	#	-	-
	NTU	SA1-12-L	WL	04/06/2016	N001	LA		0.71		FQ	#	-	-
	NTU	SA1-1-H	WL	10/15/2014	N001	AL		9.67		F	#	-	-
	NTU	SA1-1-H	WL	04/04/2016	N001	AL		2.40		F	#	-	-
	NTU	SA1-2-H	WL	10/15/2014	N001	AL		8.16		F	#	-	-
	NTU	SA1-2-H	WL	04/04/2016	N001	AL		24.2		F	#	-	-
	NTU	SA1-3-H	WL	10/15/2014	N001	AL		40.6		F	#	-	-
	NTU	SA1-3-H	WL	04/04/2016	N001	AL		57.7		F	#	-	-
	NTU	SA1-4-H	WL	10/16/2014	N001	AL		7.37		F	#	-	-
	NTU	SA1-4-H	WL	04/04/2016	N001	AL		2.39		F	#	-	-
	NTU	SA1-5-H	WL	10/15/2014	N001	AL		8.19		F	#	-	-
	NTU	SA1-5-H	WL	04/04/2016	N001	AL		9.23		F	#	-	-
	NTU	SA1-6-H	WL	10/16/2014	N001	AL		16.6		F	#	-	-
	NTU	SA1-6-H	WL	04/05/2016	N001	AL		92.6		F	#	-	-
	NTU	SA1-7-H	WL	10/16/2014	N001	AL		9.14		F	#	-	-
	NTU	SA1-7-H	WL	04/05/2016	N001	AL		22.1		F	#	-	-
	NTU	SA1-8-L	WL	10/17/2014	N001	LA		3.69		F	#	-	-
	NTU	SA1-8-L	WL	04/05/2016	N001	LA		7.54		F	#	-	-
	NTU	SA2-1-L	WL	10/17/2014	N001	LA		0.55		F	#	-	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Turbidity	NTU	SA2-1-L	WL	04/06/2016	N001	LA		1.19		F	#	-	-
	NTU	SA2-2-L	WL	10/17/2014	N001	LA		1.83		FQ	#	-	-
	NTU	SA2-2-L	WL	04/06/2016	N001	LA		0.86		FQ	#	-	-
	NTU	SA2-4-L	WL	10/17/2014	N001	LA		4.95		F	#	-	-
	NTU	SA2-4-L	WL	04/05/2016	N001	LA		8.79		F	#	-	-
	NTU	SA2-6-H	WL	10/17/2014	N001	AL		15.8		F	#	-	-
	NTU	SA2-6-H	WL	04/05/2016	N001	AL		2.00		F	#	-	-
	NTU	SA2-6-L	WL	10/17/2014	N001	LA		7.31		F	#	-	-
	NTU	SA2-6-L	WL	04/06/2016	N001	LA		1.97		F	#	-	-
	NTU	SA3-11-3	WL	10/16/2014	N001	3A		3.16		F	#	-	-
	NTU	SA3-11-3	WL	04/05/2016	N001	3A		1.64		F	#	-	-
	NTU	SA3-4-H	WL	10/15/2014	N001	AL		8.75		F	#	-	-
	NTU	SA3-4-H	WL	04/05/2016	N001	AL		5.10		F	#	-	-
	NTU	SA3-4-L	WL	10/15/2014	N001	LA		5.94		F	#	-	-
	NTU	SA3-4-L	WL	04/05/2016	N001	LA		4.57		FQ	#	-	-
	NTU	SA4-5-L	WL	10/15/2014	N001	LA		5.00		FQ	#	-	-
	NTU	SA4-5-L	WL	04/06/2016	N001	LA		4.08		FQ	#	-	-
	NTU	SA5-4-4	WL	10/14/2014	N001	A4		0.32			#	-	-
	NTU	SA5-4-4	WL	04/04/2016	N001	A4		0.64			#	-	-
	NTU	SA5-5-4	WL	10/15/2014	N001	A4		0.21			#	-	-
	NTU	SA5-5-4	WL	04/04/2016	N001	A4		0.86			#	-	-
	NTU	Well North Lumberton	WL	10/16/2014	N001			0.33			#	-	-
	NTU	Well North Lumberton	WL	04/06/2016	N001			1.15			#	-	-
Vinyl chloride	ug/L	HMH-16R	WL	10/15/2014	N001	AL		0.300	U	FQ	#	0.3	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Vinyl chloride	ug/L	HMH-16R	WL	04/06/2016	N001	AL		0.300	U	FQ	#	0.3	-
	ug/L	HMH-5R	WL	10/16/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	HMH-5R	WL	04/06/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	HM-L	WL	10/14/2014	N001	LA		0.300	U	F	#	0.3	-
	ug/L	HM-L	WL	04/05/2016	N001	LA		0.300	U	F	#	0.3	-
	ug/L	HM-S	WL	10/14/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	HM-S	WL	04/05/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-12-H	WL	10/16/2014	N001	AL		0.300	U	FQ	#	0.3	-
	ug/L	SA1-12-H	WL	04/06/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-12-L	WL	10/16/2014	N001	LA		0.300	U	FQ	#	0.3	-
	ug/L	SA1-12-L	WL	04/06/2016	N001	LA		0.300	U	FQ	#	0.3	-
	ug/L	SA1-1-H	WL	10/15/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-1-H	WL	04/04/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-2-H	WL	10/15/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-2-H	WL	10/15/2014	N002	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-2-H	WL	04/04/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-3-H	WL	10/15/2014	N001	AL		2.02		JF	#	0.3	-
	ug/L	SA1-3-H	WL	04/04/2016	N001	AL		0.750	J	F	#	0.3	-
	ug/L	SA1-4-H	WL	10/16/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-4-H	WL	04/04/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-5-H	WL	10/15/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-5-H	WL	04/04/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-6-H	WL	10/16/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-6-H	WL	04/05/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-7-H	WL	10/16/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA1-7-H	WL	04/05/2016	N001	AL		0.300	U	F	#	0.3	-

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Vinyl chloride	ug/L	SA1-7-H	WL	04/05/2016	N002	AL		0.300	U	F	#	0.3	-
	ug/L	SA2-6-H	WL	10/17/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA2-6-H	WL	04/05/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA2-6-L	WL	10/17/2014	N001	LA		0.300	U	F	#	0.3	-
	ug/L	SA2-6-L	WL	04/06/2016	N001	LA		0.300	U	F	#	0.3	-
	ug/L	SA3-4-H	WL	10/15/2014	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA3-4-H	WL	04/05/2016	N001	AL		0.300	U	F	#	0.3	-
	ug/L	SA3-4-L	WL	10/15/2014	N001	LA		0.300	U	F	#	0.3	-
	ug/L	SA3-4-L	WL	04/05/2016	N001	LA		0.300	U	FQ	#	0.3	-

CLASSIC GROUNDWATER QUALITY DATA BY PARAMETER WITH ZONE (USEE201) FOR SITE SAL01, Salmon Site
REPORT DATE: 11/29/2017 9:56 am

PARAMETER	UNITS	LOCATION CODE	LOCATION TYPE	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY

RECORDS: SELECTED FROM USEE200 WHERE site_code='SAL01' AND (data_validation_qualifiers IS NULL OR data_validation_qualifiers NOT LIKE '%R%' AND data_validation_qualifiers NOT LIKE '%X%') AND cas in('CHLORIDE','CL-36/35RAT','07440-47-3','000156-59-2','07782-44-7','H3+','07439-92-1','07439-95-4','ORP','PH','07440-09-7','07440-23-5','EC','SULFATE','TMP','000079-01-6','H3','TURBIDITY','000075-01-4') AND DATE_SAMPLED between #1/10/2014# and #12/12/2016#

SAMPLE ID CODES: 000X = Filtered sample. N00X = Unfiltered sample. X = replicate number.

LOCATION TYPES: WL WELL

ZONES OF COMPLETION: a zone of completion with a "-" is cross-screened and, therefore, has two zones of completion (1st zone - 2nd zone).

2A	PASCAGOULA/HATTIESBURG FORMATION; AQUIFE	2B	PASCAGOULA/HATTIESBURG FORMATION; AQUIFE	3A	CATAHOULA SANDSTONE; AQUIFER 3A
A1	PASCAGOULA/HATTIESBURG FORMATION; AQUIFE	A4	CHICKASAWHAY LIMESTONE; AQUIFER 4	AL	ALLUVIUM
CK	CAPROCK AQUIFER	LA	PASCAGOULA/HATTIESBURG FORMATION; LOCAL A		

FLOW CODES:

LAB QUALIFIERS:

*	Replicate analysis not within control limits.
+	Correlation coefficient for MSA < 0.995.
>	Result above upper detection limit.
A	TIC is a suspected aldol-condensation product.
B	Inorganic: Result is between the IDL and CRDL. Organic & Radiochemistry: Analyte also found in method blank.
C	Pesticide result confirmed by GC-MS.
D	Analyte determined in diluted sample.
E	Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
H	Holding time expired, value suspect.
I	Increased detection limit due to required dilution.
J	Estimated
M	GFAA duplicate injection precision not met.
N	Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compund (TIC).
P	> 25% difference in detected pesticide or Aroclor concentrations between 2 columns.
S	Result determined by method of standard addition (MSA).
U	Analytical result below detection limit.
W	Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
X	Laboratory defined qualifier, see case narrative.
Y	Laboratory defined qualifier, see case narrative.
Z	Laboratory defined qualifier, see case narrative.

DATA QUALIFIERS:

F	Low flow sampling method used.	G	Possible grout contamination, pH > 9.	J	Estimated value.
L	Less than 3 bore volumes purged prior to sampling.	N	Presumptive evidence that analyte is present. The analyte is "tentatively identified".	Q	Qualitative result due to sampling technique
R	Unusable result.	U	Parameter analyzed for but was not detected.	X	Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

Appendix C

2014 Well Installation

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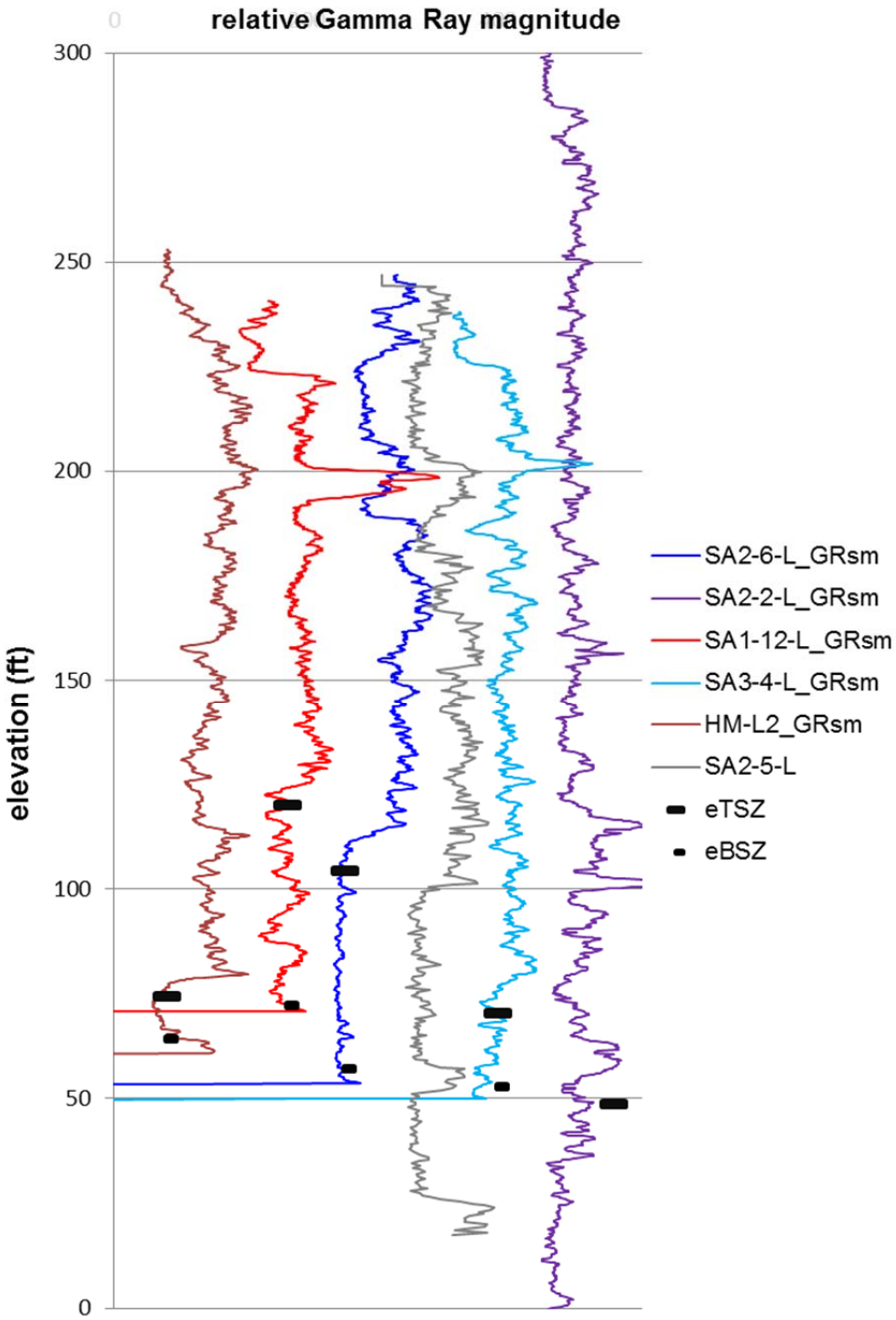
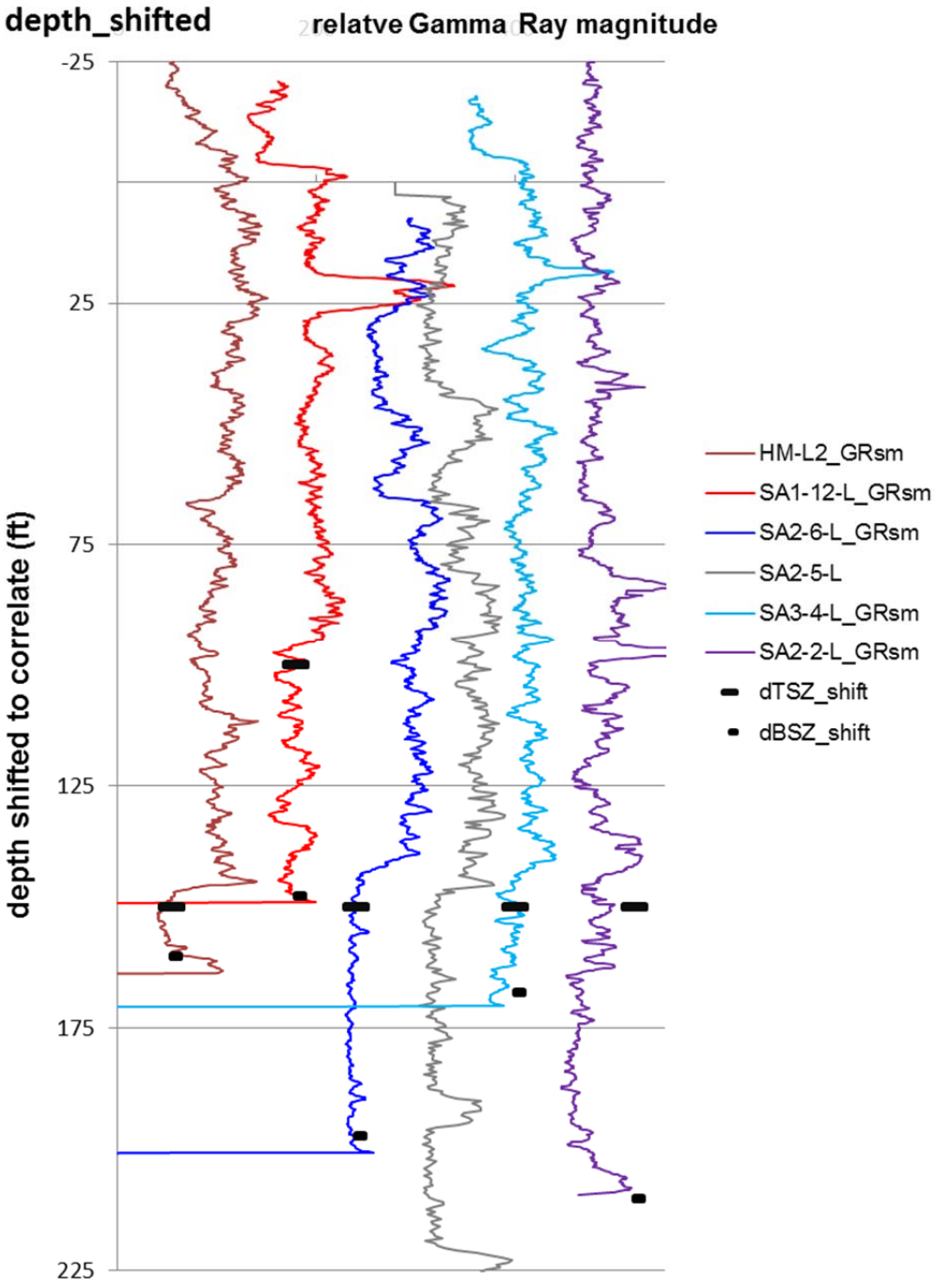
Four wells were installed in September 2014 to provide additional data for groundwater flow analysis of the Local Aquifer (three Local Aquifer wells and one Alluvial Aquifer well). Two of the Local Aquifer wells were installed where an Alluvial Aquifer well was already located, and a Local–Alluvial well pair was installed at a new location. This improves the dataset for interpreting both vertical and horizontal gradients to assess the potential for downward migration. Details for all wells are provided in the following table and figures.

Monitoring Well Details

	SA2-6-L	SA2-6-H	SA1-12-L	SA3-4-L
Stickup height	2.78	2.21	2.46	2.58
Total depth from TOC	200.05 (soft, from TOC)	49.12 (measured from TOC)	175.65 (soft, from TOC)	199.03 (soft, from TOC)
Water level / date	95.19 / 9/18/2014	18.30 / 9-18-2014	72.77 / 9/18/2014	137.45 / 9/18/2014*
Top of screen	145 (147.8 from TOC)	35 (37.21)	120 (122.46)	170 (172.58)
Bottom of screen	195 (197.8)	45 (47.21)	170 (~172.46)	190 (192.58)
Sump	197 (199.78)	2 ft 47 (49.21)	2 ft 172.4 (174.86)	5 ft 195.3 (197.9)
Date drilled	9/11/2014	9/11/2014	9/16/2014	9/13/2014
	4 inch, Sch 80 PVC (3.8 inch ID)	4 inch, Sch 80 PVC	4 inch, Sch 80 PVC	4 inch, Sch 80 PVC
	Fair recovery	Good recovery	Slow recovery – 1 ft / min	0.01 ft / min, slow recovery
Set bladder pump screen	173	42	148	185
* Measured after development				


relative Gamma Ray magnitude
elevation (ft)
300
250
200
150
100
50
0
SA2-6-L_GRsm
SA2-2-L_GRsm
SA1-12-L_GRsm
SA3-4-L_GRsm
HM-L2_GRsm
SA2-5-L
eTSZ
eBSZ

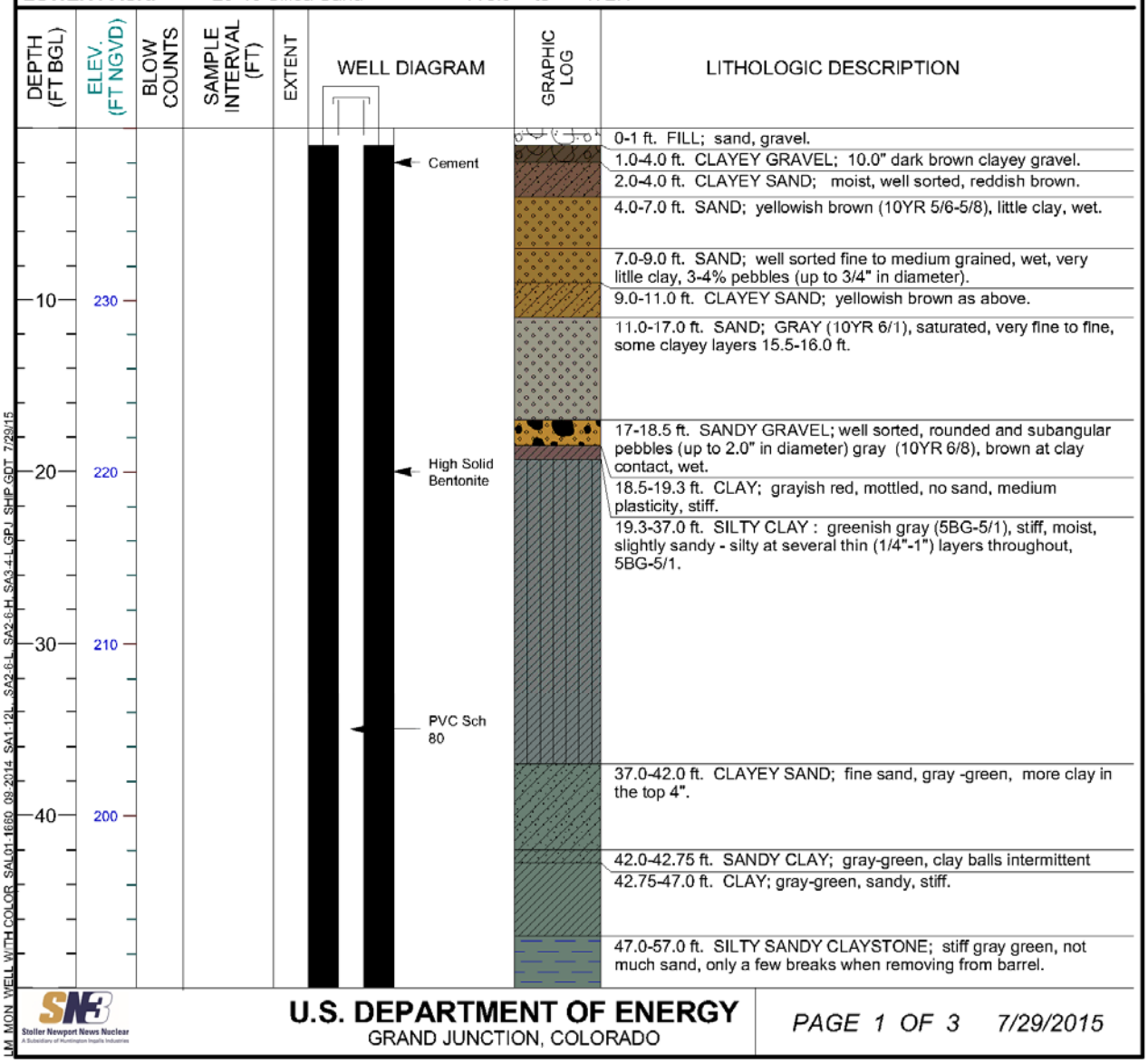

depth_shifted
relatve Gamma Ray magnitude
depth shifted to correlate (ft)
-25
25
75
125
175
225
HM-L2_GRsm
SA1-12-L_GRsm
SA2-6-L_GRsm
SA2-5-L
SA3-4-L_GRsm
SA2-2-L_GRsm
dTSZ_shift
dBSZ_shift

MONITORING WELL COMPLETION LOG SAL01-SA1-12-L

PROJECT	Nevada Offsites	**WELL NUMBER**	SAL01-SA1-12-L	**DATE STARTED**	9/14/2014
LOCATION	MS	**NORTH COORD. (FT)**	538319.02	**WELL ESTABLISHED**	9/16/2014
SITE	Salmon Site	**EAST COORD. (FT)**	269024.94	**SURFACE ELEV. (FT NGVD)**	240.03
DRILLING METHOD	SONIC	**HOLE DEPTH (FT BGS)**	172.40	**TOP OF CASING (FT)**	242.47
DRILL COMPANY	Cascade Drilling LP	**WELL DEPTH (FT BGS)**	172.40	**MEAS. PT. ELEV. (FT)**	242.47
RIG TYPE	Sonic T 1300	**WATER LEVEL (FT BTOC)**	71.31	**SLOT SIZE (IN)**	0.010
		WATER LEVEL DATE	10/16/2014	**BIT SIZE(S) (IN)**	8.75

WELL INSTALLATION		**INTERVAL (FT BGS)**		
SURFACE CASING:				
BLANK CASING:	4 in.dia. PVC Sch 80	-2.44	to	120.0
WELL SCREEN:	4 in.dia. 0.01 Slotted PVC	120.0	to	170.0
SUMP/END CAP:	4 in.dia. PVC Sch 80	170.0	to	172.4
GROUT:	Cement	0.0	to	1.0
SEAL:	High Solid Bentonite	1.0	to	114.5
UPPER PACK:	30/65 Silica Sand	114.5	to	116.0
LOWER PACK:	20-40 Silica Sand	116.0	to	172.4

DRILLER Kraus, Fred
LOGGED BY Traub, D.
SAMPLING METHOD Continous Core
DATE DEVELOPED 9/17/2014
REMARKS



LM MON_WELL_WITH COLOR_SAL01-1660_09-2014_SA1-12L_SA2-6-L_SA2-6-H_SA3-4-L.GPJ_SHIP.GDT_7/29/15

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GRAND JUNCTION, COLORADO

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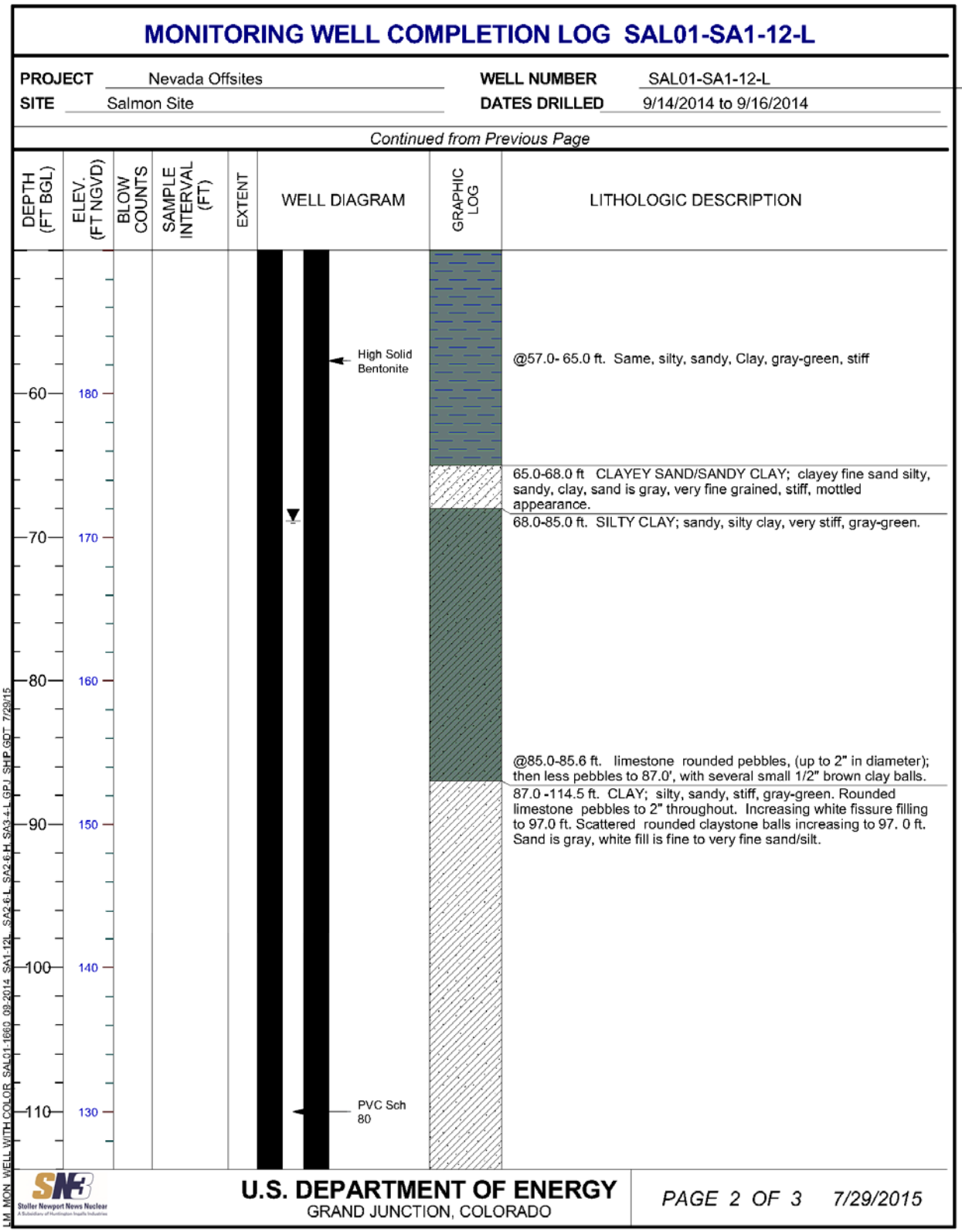
MONITORING WELL COMPLETION LOG SAL01-SA1-12-L
PROJECT Nevada Offsites
WELL NUMBER SAL01-SA1-12-L
SITE Salmon Site
DATES DRILLED 9/14/2014 to 9/16/2014
Continued from Previous Page
DEPTH (FT BGL)
ELEV. (FT NGVD)
BLOW COUNTS
SAMPLE INTERVAL (FT)
EXTENT
WELL DIAGRAM
GRAPHIC LOG
LITHOLOGIC DESCRIPTION
60
180
70
170
80
160
90
150
100
140
110
130
High Solid Bentonite
PVC Sch 80
@57.0- 65.0 ft. Same, silty, sandy, Clay, gray-green, stiff
65.0-68.0 ft CLAYEY SAND/SANDY CLAY; clayey fine sand silty, sandy, clay, sand is gray, very fine grained, stiff, mottled appearance.
68.0-85.0 ft. SILTY CLAY; sandy, silty clay, very stiff, gray-green.
@85.0-85.6 ft. limestone rounded pebbles, (up to 2" in diameter); then less pebbles to 87.0', with several small 1/2" brown clay balls.
87.0 -114.5 ft. CLAY; silty, sandy, stiff, gray-green. Rounded limestone pebbles to 2" throughout. Increasing white fissure filling to 97.0 ft. Scattered rounded claystone balls increasing to 97. 0 ft. Sand is gray, white fill is fine to very fine sand/silt.
LM_MON_WELL WITH COLOR_SAL01-1660 09-2014 SA1-12L SA2-6-L SA2-6-H SA3-4-L GPJ SHP GDT 7/29/15
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MONITORING WELL COMPLETION LOG SAL01-SA1-12-L

PROJECT Nevada Offsites
WELL NUMBER SAL01-SA1-12-L
SITE Salmon Site
DATES DRILLED 9/14/2014 to 9/16/2014

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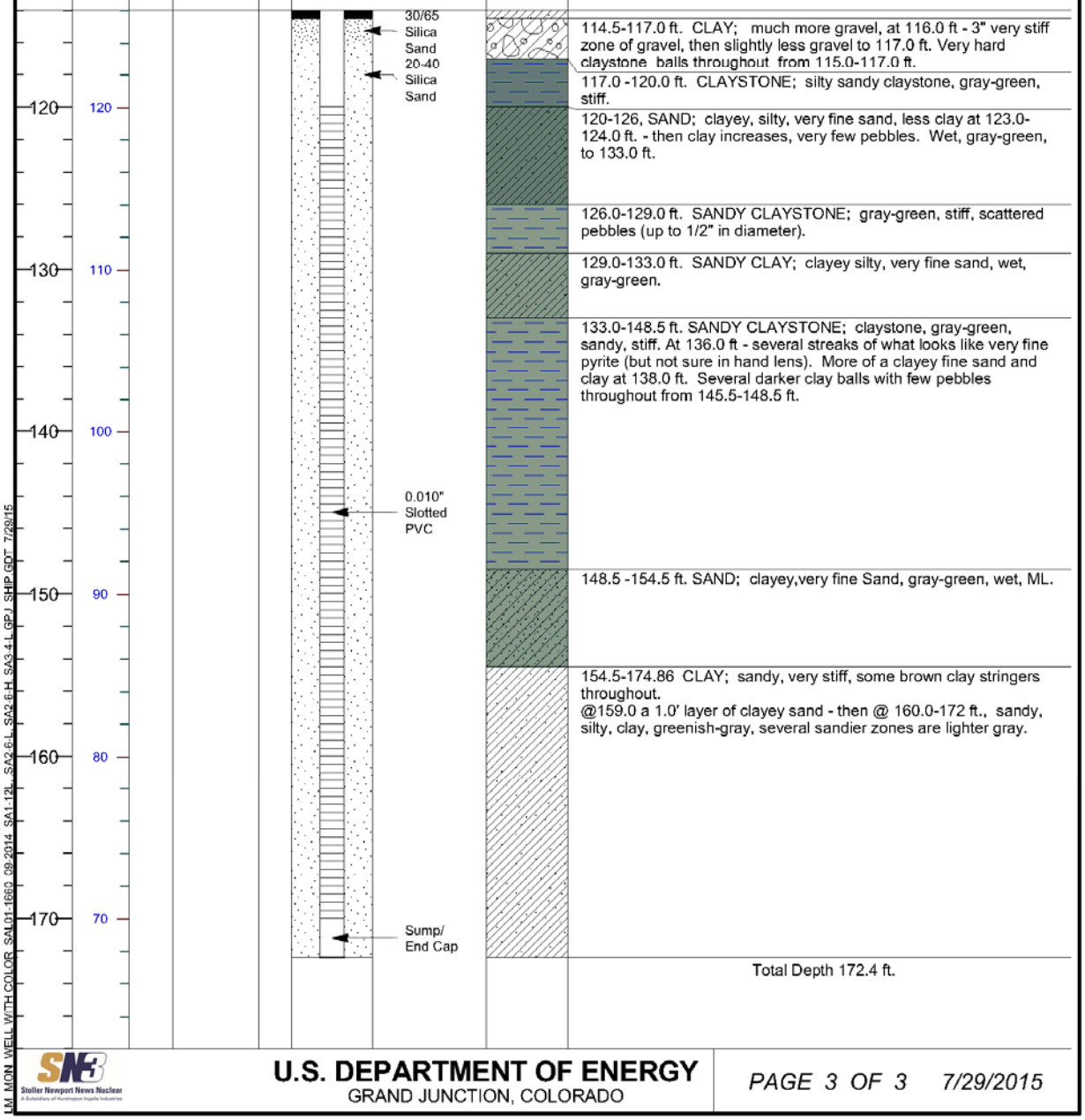

LM_MON_WELL_WITH_COLOR_SAL01-1660_09-2014_SA1-12L_SA2-6-L_SA2-6-H_SA3-4-L.GPJ_SHIP_GDT_7/29/15

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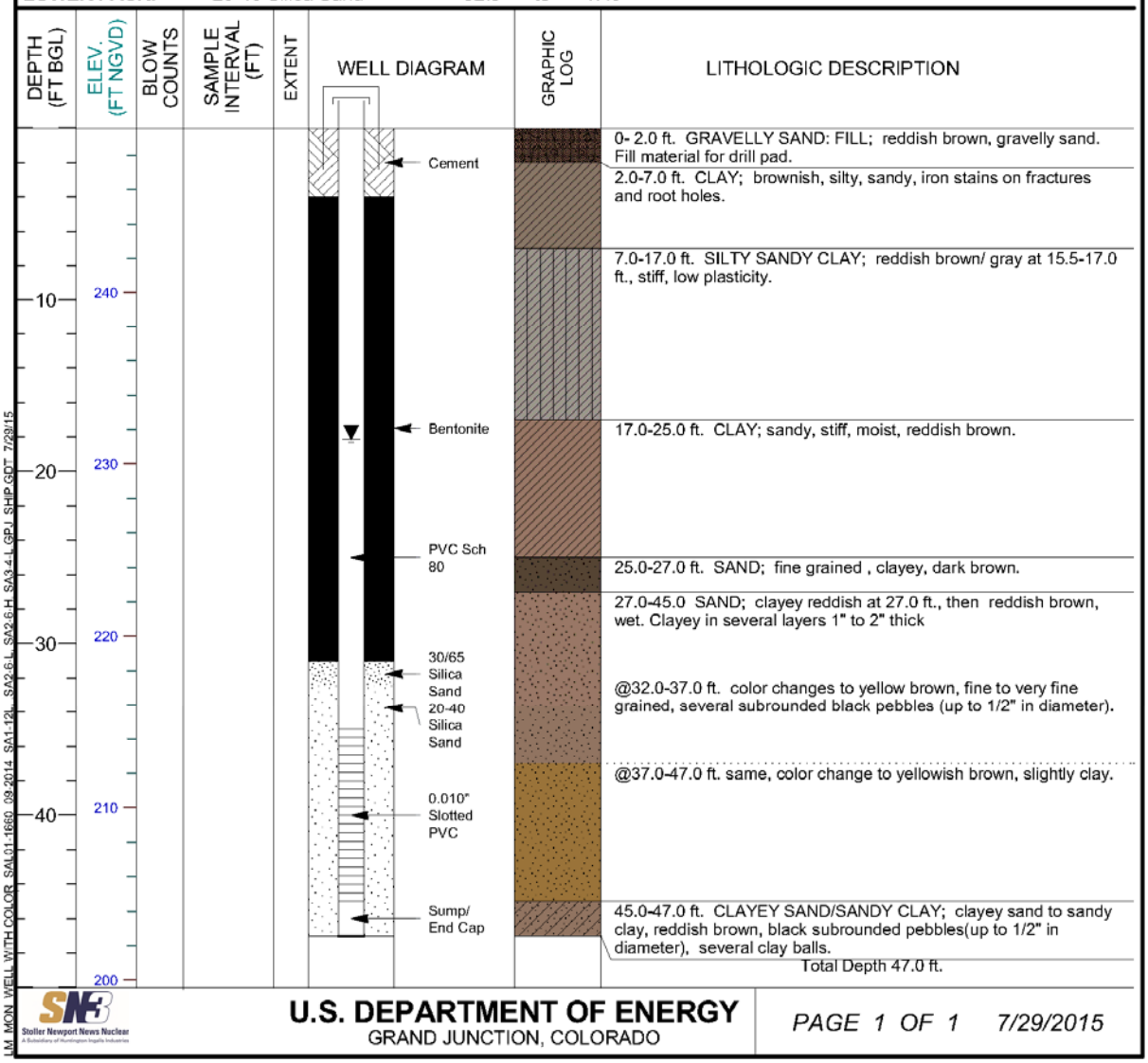
MONITORING WELL COMPLETION LOG SAL01-SA2-6-H

PROJECT	Nevada Offsites	**WELL NUMBER**	SAL01-SA2-6-H	**DATE STARTED**	9/11/2014
LOCATION	MS	**NORTH COORD. (FT)**	538573.27	**WELL ESTABLISHED**	9/11/2014
SITE	Salmon Site	**EAST COORD. (FT)**	270190.58	**SURFACE ELEV. (FT NGVD)**	249.57
DRILLING METHOD	SONIC	**HOLE DEPTH (FT BGS)**	47.00	**TOP OF CASING (FT)**	251.76
DRILL COMPANY	Cascade Drilling LP	**WELL DEPTH (FT BGS)**	47.00	**MEAS. PT. ELEV. (FT)**	251.76
RIG TYPE	Sonic T 1300	**WATER LEVEL (FT BTOC)**	20.35	**SLOT SIZE (IN)**	0.010
		WATER LEVEL DATE	10/17/2014	**BIT SIZE(S) (IN)**	8.75

WELL INSTALLATION		**INTERVAL (FT BGS)**		
SURFACE CASING:				
BLANK CASING:	4 in.dia. PVC Sch 80	-2.2	to	35.0
WELL SCREEN:	4 in.dia. 0.01 Slotted PVC	35.0	to	45.0
SUMP/END CAP:	4 in.dia. PVC Sch 80	45.0	to	47.0
GROUT:	Cement	0.0	to	4.0
SEAL:	High Solid Bentonite	4.0	to	31.0
UPPER PACK:	30/65 Silica Sand	31.0	to	32.5
LOWER PACK:	20-40 Silica Sand	32.5	to	47.0

DRILLER Kraus, Fred
LOGGED BY Traub, D.
SAMPLING METHOD Continous Core
DATE DEVELOPED 9/18/2014
REMARKS



M_MON_WELL_WITH_COLOR_SAL01-1660_09-2014_SA1-12L_SA2-6-L_SA2-6-H_SA3-4-L.GPJ_SHIP.GDT 7/29/15

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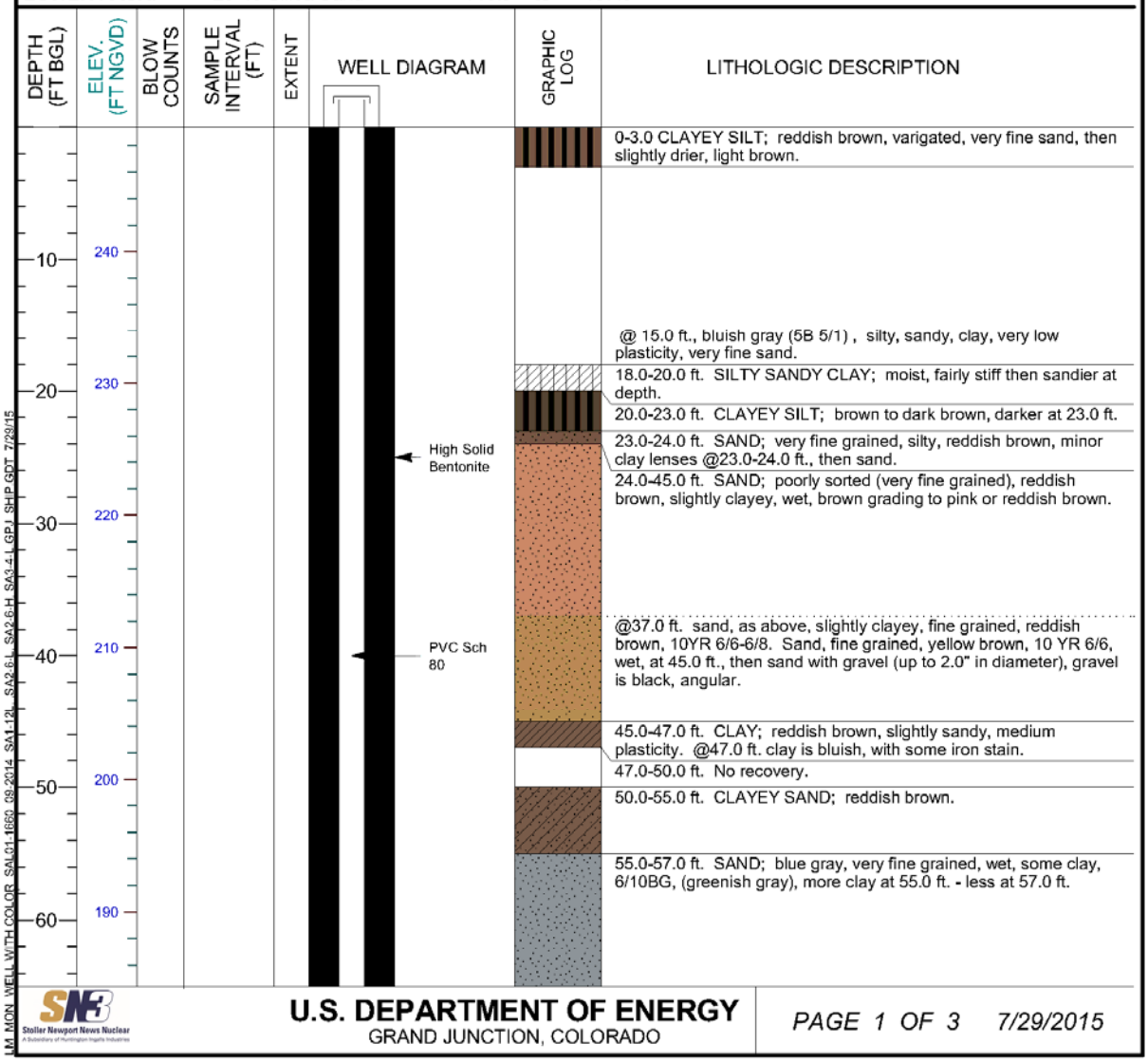
MONITORING WELL COMPLETION LOG SAL01-SA2-6-L

PROJECT	Nevada Offsites	**WELL NUMBER**	SAL01-SA2-6-L	**DATE STARTED**	9/9/2014
LOCATION	MS	**NORTH COORD. (FT)**	538549.77	**WELL ESTABLISHED**	9/11/2014
SITE	Salmon Site	**EAST COORD. (FT)**	270170.01	**SURFACE ELEV. (FT NGVD)**	249.39
DRILLING METHOD	SONIC	**HOLE DEPTH (FT BGS)**	197.00	**TOP OF CASING (FT)**	252.19
DRILL COMPANY	Cascade Drilling LP	**WELL DEPTH (FT BGS)**	197.00	**MEAS. PT. ELEV. (FT)**	252.19
RIG TYPE	Sonic T 1300	**WATER LEVEL (FT BTOC)**	94.65	**SLOT SIZE (IN)**	0.010
		WATER LEVEL DATE	10/15/2015	**BIT SIZE(S) (IN)**	8.75

WELL INSTALLATION		**INTERVAL (FT BGS)**		
SURFACE CASING:				
BLANK CASING:	4 in.dia. PVC Sch 80	-2.8	to	145.0
WELL SCREEN:	4 in.dia. 0.01 Slotted PVC	145.0	to	195.0
SUMP/END CAP:	4 in.dia. PVC Sch 80	195.0	to	197.0
GROUT:				
SEAL:	High Solid Bentonite	0.0	to	139.0
UPPER PACK:	30/65 Silica Sand	139.0	to	140.5
LOWER PACK:	20-40 Silica Sand	140.5	to	197.0

DRILLER Kraus, Fred
LOGGED BY Traub, D.
SAMPLING METHOD Continous Core
DATE DEVELOPED 9/18/2014
REMARKS



LM_MON_WELL_WITH_COLOR_SAL01-1660_09-2014_SA1-12L_SA2-6-L_SA2-6-H_SA3-4-L.GPJ_SHP.GDT_7/29/15

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MONITORING WELL COMPLETION LOG SAL01-SA2-6-L

PROJECT Nevada Offsites
SITE Salmon Site
WELL NUMBER SAL01-SA2-6-L
DATES DRILLED 9/9/2014 to 9/11/2014

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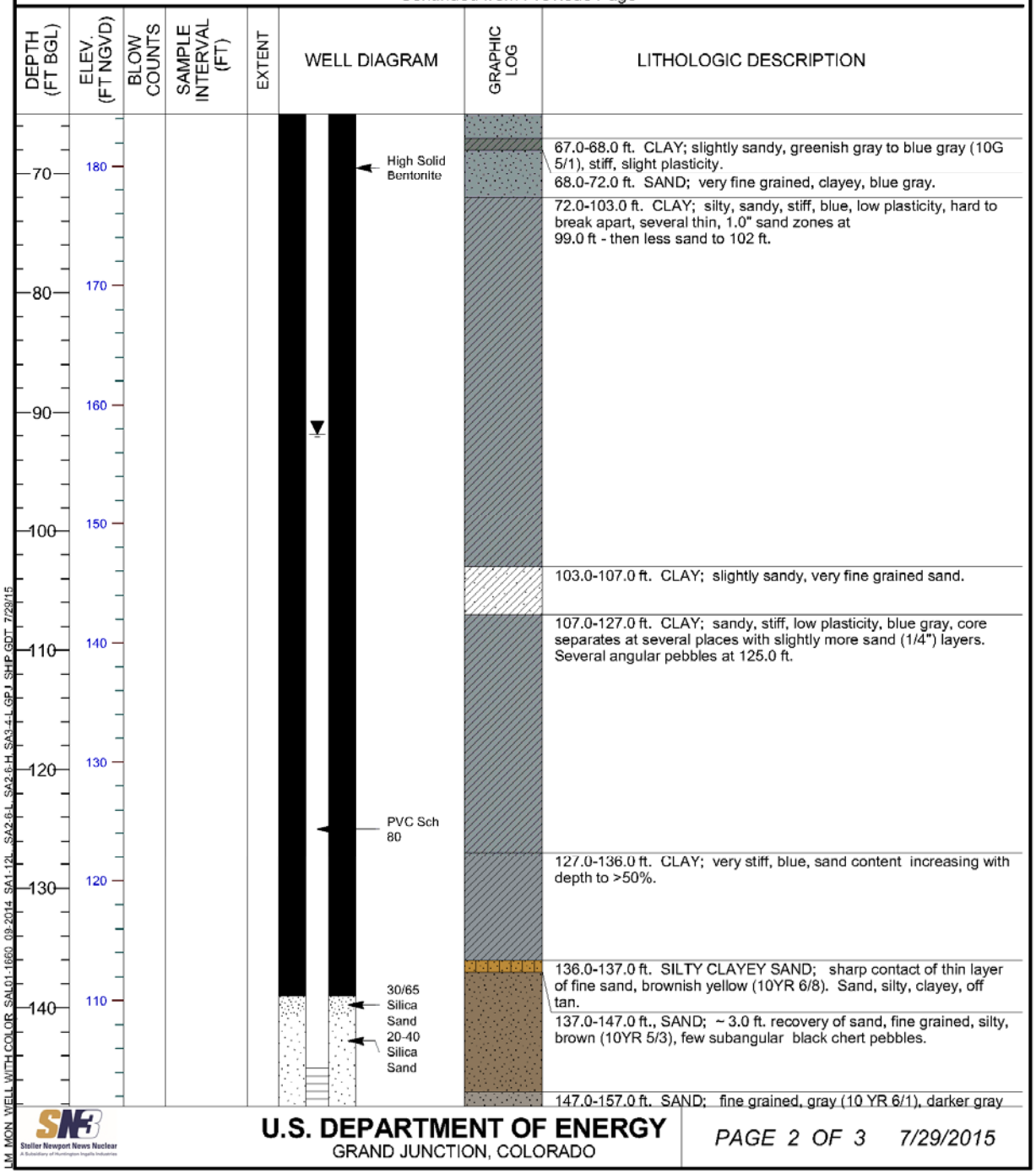

LM_MON_WELL_WITH_COLOR_SAL01-1660_09-2014_SA1-12L_SA2-6-L_SA2-6-H_SA3-4-L.GPJ_SHP.GDT_7/29/15

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MONITORING WELL COMPLETION LOG SAL01-SA2-6-L

PROJECT Nevada Offsites
SITE Salmon Site
WELL NUMBER SAL01-SA2-6-L
DATES DRILLED 9/9/2014 to 9/11/2014

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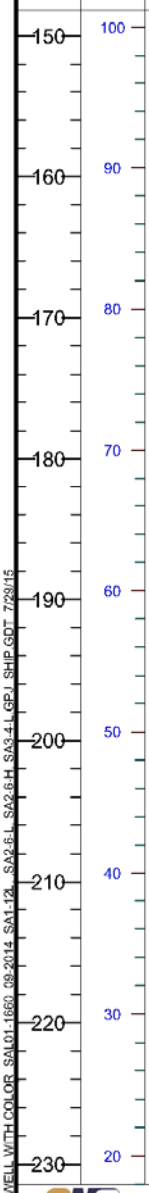

LITHOLOGIC DESCRIPTION
at 157.0 ft. ~4.0" clay layer at 153.0 ft., light gray, very stiff, no plasticity, very sandy, rounded subangular pebbles (up to 1.0" in diameter) at bottom of clay.
157.0-167.0 ft. SAND; no consolidation, gray (10YR 6/1), wet, clayey at 166.0-167.0 ft. Several slightly stiffer sands throughout, 1-2% pebbles (1/2" to 3/4" in diameter), subangular, rounded.
167.0-177.0 ft. SAND; gray (6/N), wet, unconsolidated, some slightly darker gray at ~175.0 ft., then gray/dark gray and is slightly clayey.
177.0-195.0 ft. SAND; gray, several rounded clay balls at 180.0 ft., gray to greenish gray (5G 5/1), silty, some very fine sand, clay balls larger at 185.0-187.0 ft.
195.0-197.0 ft. CLAY; blue gray, stiff, low plasticity, slightly sandy.
Total Depth 197.0 ft.

LM_MON_WELL_WITH_COLOR_SAL01-1660_09-2014_SA1-12L_SA2-6-L_SA2-6-H_SA3-4-L.GPJ_SHIP.GDT 7/29/15

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MONITORING WELL COMPLETION LOG SAL01-SA3-4-L

PROJECT	Nevada Offsites	**WELL NUMBER**	SAL01-SA3-4-L	**DATE STARTED**	9/12/2014
LOCATION	MS	**NORTH COORD. (FT)**	536682.08	**WELL ESTABLISHED**	9/13/2014
SITE	Salmon Site	**EAST COORD. (FT)**	269539.27	**SURFACE ELEV. (FT NGVD)**	240.36
DRILLING METHOD	SONIC	**HOLE DEPTH (FT BGS)**	197.00	**TOP OF CASING (FT)**	242.92
DRILL COMPANY	Cascade Drilling LP	**WELL DEPTH (FT BGS)**	195.00	**MEAS. PT. ELEV. (FT)**	242.92
RIG TYPE	Sonic T 1300	**WATER LEVEL (FT BTOC)**	87.8	**SLOT SIZE (IN)**	0.010
		WATER LEVEL DATE	10/15/2015	**BIT SIZE(S) (IN)**	8.75

WELL INSTALLATION		**INTERVAL (FT BGS)**		
SURFACE CASING:				
BLANK CASING:	4 in.dia. PVC Sch 80	-2.56	to	170.0
WELL SCREEN:	4 in.dia. 0.01 Slotted PVC	170.0	to	190.0
SUMP/END CAP:	4 in.dia. PVC Sch 80	190.0	to	195.0
GROUT:	Cement	0.0	to	2.0
SEAL:	High Solid Bentonite	2.0	to	161.0
UPPER PACK:				
LOWER PACK:	20-40 Silica Sand	161.0	to	195.0

DRILLER Kraus, Fred
LOGGED BY Traub, D.
SAMPLING METHOD Continous Core
DATE DEVELOPED 9/18/2014
REMARKS

DEPTH (FT BGL)	ELEV. (FT NGVD)	BLOW COUNTS	SAMPLE INTERVAL (FT)	EXTENT	WELL DIAGRAM	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
10	230				Cement		0-1.5 ft. GRAVEL; brownish yellow (10YR 6/8). 1.5-4.0 ft. SAND; fine grained, clayey. 4.0-7.0 ft. SANDY CLAY; red/gray layers, clay is gray (10YR 6/1), low plasticity, sandy, wet. 7.0-15.0 ft. CLAYEY SAND; brownish yellow, well sorted, wet, then gray 10.0-15.0 ft.
20	220				High Solid Bentonite		15.0-27.0 ft. CLAY; @15.0-16.0 ft. blue gray, sandy, about 4 inch layer of gray sand, with pebbles (up to 2.0" in diameter). @16.0-17.0 ft. gray green, silty, minor sand, low plasticity. @17.0-27.0 ft. gray green (5G 5/2), very silty, sandy, low to no plasticity, stiff, moist
30	210						27.0-37.0 ft. CLAYSTONE; gray green (5G 5/2-4/2), stiff, some reddish spots throughout, medium to low plasticity, moist.
40	200				PVC Sch 80		@37.0-51.0 ft. same, with gray green silty clay and slighty sandy in places, pretty uniform.
50	190						51.0-67.0 ft. CLAYEY SAND; very fine, wet, gray green @55.0-57.0 ft. sand very clayey sand/sandy claywery clayey sand, not as stiff.
60	180						@61.0-63.0 ft. clay is very stiff, sandy, silty, gray-green.

LM_MON_WELL_WITH_COLOR_SAL01-1660_09-2014_SA1-12L_SA2-6-L_SA2-6-H_SA3-4-L.GPJ_SHIP.GDT_7/29/15

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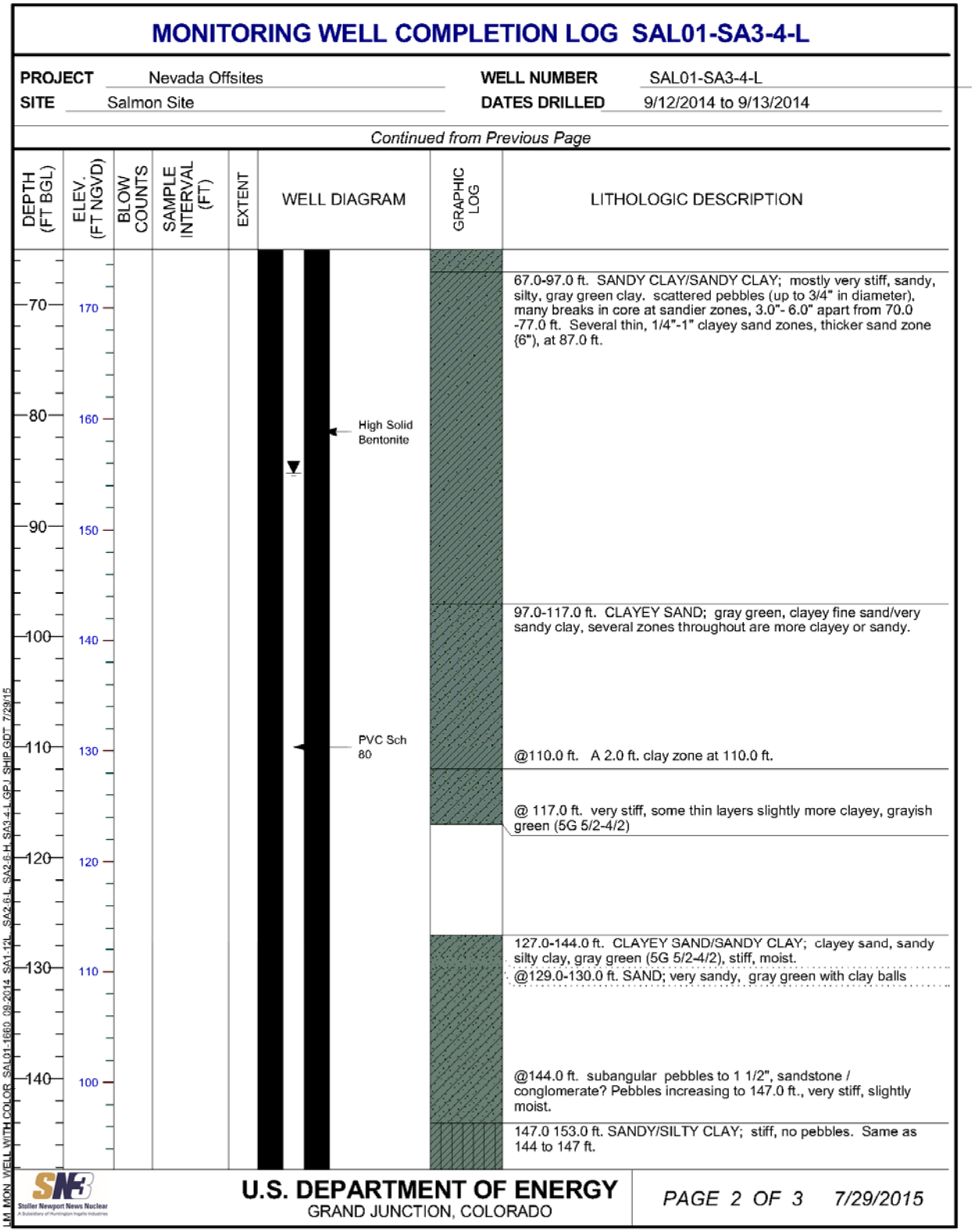
MONITORING WELL COMPLETION LOG SAL01-SA3-4-L
PROJECT Nevada Offsites
WELL NUMBER SAL01-SA3-4-L
SITE Salmon Site
DATES DRILLED 9/12/2014 to 9/13/2014
Continued from Previous Page
DEPTH (FT BGL)
ELEV. (FT NGVD)
BLOW COUNTS
SAMPLE INTERVAL (FT)
EXTENT
WELL DIAGRAM
GRAPHIC LOG
LITHOLOGIC DESCRIPTION
70
80
90
100
110
120
130
140
170
160
150
140
130
120
110
100
High Solid Bentonite
PVC Sch 80
67.0-97.0 ft. SANDY CLAY/SANDY CLAY; mostly very stiff, sandy, silty, gray green clay. scattered pebbles (up to 3/4" in diameter), many breaks in core at sandier zones, 3.0"- 6.0" apart from 70.0 -77.0 ft. Several thin, 1/4"-1" clayey sand zones, thicker sand zone (6"), at 87.0 ft.
97.0-117.0 ft. CLAYEY SAND; gray green, clayey fine sand/very sandy clay, several zones throughout are more clayey or sandy.
@110.0 ft. A 2.0 ft. clay zone at 110.0 ft.
@ 117.0 ft. very stiff, some thin layers slightly more clayey, grayish green (5G 5/2-4/2)
127.0-144.0 ft. CLAYEY SAND/SANDY CLAY; clayey sand, sandy silty clay, gray green (5G 5/2-4/2), stiff, moist.
@129.0-130.0 ft. SAND; very sandy, gray green with clay balls
@144.0 ft. subangular pebbles to 1 1/2", sandstone / conglomerate? Pebbles increasing to 147.0 ft., very stiff, slightly moist.
147.0 153.0 ft. SANDY/SILTY CLAY; stiff, no pebbles. Same as 144 to 147 ft.
LM MON_WELL WITH COLOR_SAL01-1660_09-2014_SA1-12L_SA2-6-L_SA2-6-H_SA3-4-L.GPJ_SHIP.GDT 7/29/15
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MONITORING WELL COMPLETION LOG SAL01-SA3-4-L

PROJECT Nevada Offsites
SITE Salmon Site
WELL NUMBER SAL01-SA3-4-L
DATES DRILLED 9/12/2014 to 9/13/2014

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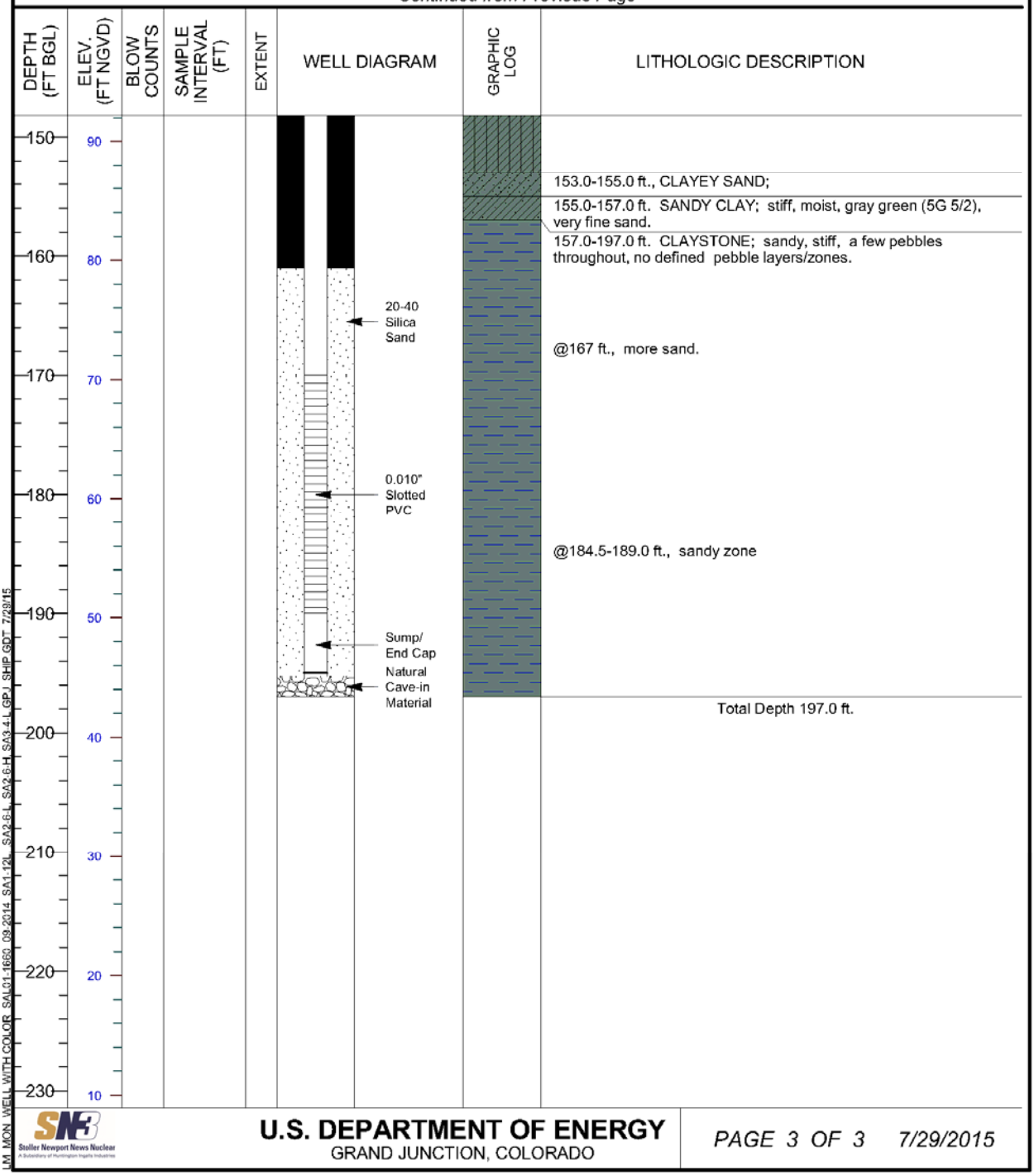

M_MON_WELL_WITH_COLOR_SAL01-1660_09-2014_SA1-12L_SA2-6-L_SA2-6-H_SA3-4-L.GPJ_SHIP.GDT 7/29/15

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