

Table 3–1 Fiscal Year 2009 Water Consumption (thousand gallons)

<i>2008-2009</i>	<i>Groundwater</i>			<i>River Water</i> ^c	<i>De-Ionized Water</i> ^d	<i>Total</i>
	<i>Domestic Water</i> ^a	<i>Process Water</i> ^b	<i>Service Water</i> ^b			
October	28,276	14,602	21,598	88,560	-	153,036
November	19,340	15,089	22,317	91,512	-	148,248
December	21,777	14,602	21,598	88,560	-	146,537
January	24,866	15,089	22,317	91,512	-	153,784
February	25,373	15,089	22,317	91,512	-	154,291
March	22,791	13,628	20,158	82,656	-	139,233
April	24,529	15,089	22,317	91,512	-	153,447
May	25,421	14,602	21,598	88,560	-	150,181
June	27,116	15,089	22,317	91,512	-	156,034
July	32,484	14,602	21,598	88,560	-	157,244
August	31,727	15,089	22,317	91,512	-	160,645
September	30,014	15,089	22,317	91,512	-	158,932
Total	313,714	177,659	262,769	1,077,480	-	1,831,622

^a Domestic Water: Potable water provided to each area on site from dedicated domestic water wells. The Central Domestic Water Plant serves A-, B-, C-, N-, F-, G-, and H-Areas. The Central Plant is located in A-Area and is serviced from Wells 905-112G and 905-113G. The B-Area Plant serves as a backup to the A-Plant and is serviced by Wells 905-125B and 905-67B.

^b Process/Service Water: Used to provide water for once-through cooling, as a supply of make-up water for cooling tower water systems, to boilers and other applications, fire water storage tanks, and for flushing and wash-down. Service Water is defined as water pumped from the ground, minimally treated for pH adjustment, and then introduced into the piping system for consumption. Service water becomes process water when it reaches a cooling tower. Process/Service Water is provided from dedicated wells in each of the operating areas.

^c River Water: Water pumped directly from the Savannah River for Reactor Area cooling water needs and 484-D Powerhouse feedwater. Pump 681-3G currently serves for make-up water to L-Lake and for L-Area fire protection needs. Pump 681-3G currently serves boiler feedwater for the 484-D Powerhouse.

^d De-ionized Water: No longer measured.

Source: SRS Site Infrastructure, PQCD Report D7257000, FY09.

Table 3–2 Savannah River Site Sitewide Infrastructure for FY2009

<i>Resource</i>	<i>Estimated Use</i>	<i>Capacity</i>
Transportation ^a		
Primary and Secondary Roads (miles)	1,230	1,230
Railroads (miles)	33	33
Electricity		
Power Consumption (megawatt-hours per year)	319,241 ^b	4,400,000 ^a
Peak Load (megawatts) ^a	60	500
Fuel ^{b,c}		
Oil (gallons per year)	622,100 ^b	NA ^d
Coal (tons per year)	146,610 ^b	NA ^d
Domestic Water (gallons per year)	313,714,000 ^b	2,950,000,000 ^a
Sewage (gallons per year)	248,797,000 ^b	383,000,000 ^a

NA = not applicable or not available.

^a Source: **previous data call**

^b Source: **Source: SRS Site Infrastructure, PQCD Report D7257000, FY09.**

^c Oil use is for A-, D-, and K-Areas.

^d Capacity is generally not limited as delivery frequency can be increased to meet demand.

Note: To convert gallons to liters, multiply by 3.7854; miles to kilometers, multiply by 1.609; tons (short) to metric tons, multiply by 0.907; cubic feet to cubic meters, multiply by 0.0283.

Table 3–3 Current Use of Infrastructure Resources for FY2009

<i>Resource</i>	<i>K-Area</i>	<i>H-Area</i>	<i>F-Area</i>	<i>S-Area</i>
Electricity				
Power Consumption (megawatt-hours per year) ^a	7,440	82,595	35,985	46,332
Peak Load (megawatts) ^b	5.8	24.7	10	6
Fuel ^c				
Diesel/Fuel Oil (gallons per year) ^a	250,540	NA	NA	NA
Domestic Water (gallons per year) ^a	4,232,000	133,975,000	62,254,000	13,018,000

NA = not applicable.

^a Source: **Source: SRS Site Infrastructure, PQCD Report D7257000, FY09.**

^b Source: **previous data call**

^c Fuel oil is not used in H-, F-, or S-Areas. Coal is not used in K-, H-, F-, or S-Areas.

Note: To convert gallons to liters, multiply by 3.7854.