Daniel Wells[redacted]
08/30/2007 08:55 AM
To
Greg Burbage[redacted] Clayton Shedrow[redacted]
cc
Bill Payne[redacted]
bcc

Subject
Fw: Surplus Pu Disposition SEIS Data Call

Here is what I sent last week. I wasn't real sure what was being asked for, so I just estimated the answers as best I could based on previous studies.

I want to revise the K area watertable velocity down a little bit to about 75 ft/yr. This is based on my interpretation of figure 5-6 in Groundwater Flow and Solute Transport Modeling Report K-Area Burning/Rubble Pit and Rubble Pile WSRC-RP-98-5052.

The estimates for F, H and S were made using figure 4-6 from Groundwater Flow Model of the General Separations Area using PORFLOW, WSRC-TR-2004-00106.

The Crouch Branch estimates are from Hydrogeologic Framework of West-Central South Carolina, SCDNR Water Resource Division Report 5, 1995.
----- Forwarded by Daniel Wells[redacted] on 08/30/2007 08:06 AM -----
Daniel Wells[redacted]
08/30/2007 07:36 AM
To
Bill Payne[redacted]
cc

Subject
Fw: Surplus Pu Disposition SEIS Data Call

I sent this to Barry last week. I think he's out of town anyway.
----- Forwarded by Daniel Wells[redacted] on 08/30/2007 07:36 AM -----
Daniel Wells[redacted]
08/24/2007 08:08 AM
To
Clayton Shedrow[redacted]
cc

Subject
Re: Surplus Pu Disposition SEIS Data Call

Watertable

At K Area the watertable is encountered at about 70 ft. It flows SW toward Indian Graves Branch at about 90 ft/yr.

At H Canyon the watertable is encountered at about 40 ft. It flows either north toward Upper Three Runs or west toward McQueen's Branch at about 80 ft/yr (depending on the exact starting point around the canyon).

At F Area near MOX, the watertable is encountered at about 100 ft. It flows either north toward Upper Three Runs at about 130 ft/yr.

At S Area the watertable is encountered at about 40 ft. It flows west toward McQueen's Branch at about 80 ft/yr.

Drinking water aquifer

There are basically two drinking water aquifers used at SRS. There are no drinking water wells at F,H or S so the answer may be "NA" for those. But if you do need something for those areas, I suppose we should look at the shallowest drinking water aquifer even though the drinking water that is piped in from A Area is actually from a deeper aquifer.

The shallowest drinking water aquifer beneath F Area is the Crouch Branch Aquifer. The top of the aquifer (not the potentiometric surface) is encountered at about 330ft. It flows toward the Savannah River at about 113ft/yr.

The shallowest drinking water aquifer beneath H Area is the Crouch Branch Aquifer. The top of the aquifer (not the potentiometric surface) is encountered at about 350ft. It flows toward the Savannah River at about 113ft/yr.

The shallowest drinking water aquifer beneath S Area is the Crouch Branch Aquifer. The top of the aquifer (not the potentiometric surface) is encountered at about 350ft. It flows toward the Savannah River at about 110ft/yr.

K Area has drinking water wells in the Crouch Branch Aquifer. They hit the Crouch Branch at about 480 ft. At K Area it flows at only about 70 ft/yr toward the Savannah River.