Alluvium Drill Cuttings Logging Form Comments - Nye County Nuclear Waste Repository Project Office

Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/14/2004	22PC-0.0-2.5-D	0.00	2.50	Samples from 0 to 10 ft are not representative due to lack of full circulation - until casing is "drilled-in" and sealed, full air volume could not be applied. Coarse fraction not lifted. Samples split using cone and quarter method 0-17.5 ft. Due to large samples, sample recovery data was not collected for the entir borehole. Use sample weight.
10/14/2004	22PC-2.5-5.0-D	2.50	5.00	
10/14/2004	22PC-5.0-7.5-D	5.00	7.50	
10/14/2004	22PC-7.5-10-D	7.50	10.00	Sample interval contains coarse fraction from 3 intervals (0-7.5 ft) above; hole "unloaded" gravel.
10/14/2004	22PC-10-12.5-D	10.00	12.50	Samples becoming more representative as circulation improves.
10/14/2004	22PC-12.5-15-D	12.50	15.00	Lost sample from ~12.5 ft-14 ft as cyclone/sample system failed. Finish sample.
10/15/2004	22PC-15-17.5-D	15.00	17.50	Driller reports coarser gravel below ~15 ft. Stop drilling on 10-14-04 at 16 ft. Resume sample 15 ft to17.5 ft on 10-15-05. Total clean out weight 0-16 ft = 367.75 kg; tare weight = 24.10 kg. Total weight- tare weight = 343.65 kg soil weight. At 17.5 ft bgs, drilling ahead but air pressure is being kept low resulting in coarser gravel clasts not being returned or collected.
10/15/2004	22PC-17.5-20-D	17.50	20.00	Sample interval 17.5 ft to 20 ft has low gravel content; gravel from this interval possibly in clean-out material from 20 ft and included in the 20 ft to 22.5 ft interval.
10/15/2004	22PC-20-22.5-D	20.00	22.50	
10/15/2004	22PC-22.5-25-D	22.50	25.00	
10/15/2004	22PC-25-27.5-D	25.00	27.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/15/2004	22PC-27.5-30-D	27.50	30.00	
10/15/2004	22PC-30-32.5-D	30.00	32.50	
10/15/2004	22PC-32.5-35-D	32.50	35.00	
10/15/2004	22PC-35-37.5-D	35.00	37.50	
10/15/2004	22PC-37.5-40-D	37.50	40.00	
10/15/2004	22PC-40-42.5-D	40.00	42.50	
10/15/2004	22PC-42.5-45-D	42.50	45.00	
10/15/2004	22PC-45-47.5-D	45.00	47.50	
10/15/2004	22PC-47.5-50-D	47.50	50.00	
10/15/2004	22PC-50-52.5-D	50.00	52.50	
10/15/2004	22PC-52.5-55-D	52.50	55.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/15/2004	22PC-55-57.5-D	55.00	57.50	
10/15/2004	22PC-57.5-60-D	57.50	60.00	
10/17/2004	22PC-60-62.5-D	60.00	62.50	Clean out weight @ 62.5 ft = 98.25 kg. Split samples using Gilson splitter 17.5 ft to 215 ft.
10/17/2004	22PC-62.5-65-D	62.50	65.00	
10/17/2004	22PC-65-67.5-D	65.00	67.50	
10/17/2004	22PC-67.5-70-D	67.50	70.00	
10/17/2004	22PC-70-72.5-D	70.00	72.50	
10/17/2004	22PC-72.5-75-D	72.50	75.00	
10/17/2004	22PC-75-77.5-D	75.00	77.50	
10/17/2004	22PC-77.5-80-D	77.50	80.00	
10/17/2004	22PC-80-82.5-D	80.00	82.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/17/2004	22PC-82.5-85-D	82.50	85.00	
10/17/2004	22PC-85-87.5-D	85.00	87.50	
10/17/2004	22PC-87.5-90-D	87.50	90.00	
10/17/2004	22PC-90-92.5-D	90.00	92.50	
10/17/2004	22PC-92.5-95-D	92.50	95.00	
10/17/2004	22PC-95-97.5-D	95.00	97.50	
10/17/2004	22PC-97.5-100-D	97.50	100.00	
10/17/2004	22PC-100-102.5-D	100.00	102.50	
10/17/2004	22PC-102.5-105-D	102.50	105.00	
10/17/2004	22PC-105-107.5-D	105.00	107.50	
10/17/2004	22PC-107.5-110-D	107.50	110.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/17/2004	22PC-110-112.5-D	110.00	112.50	
10/17/2004	22PC-112.5-115-D	112.50	115.00	
10/17/2004	22PC-115-117.5-D	115.00	117.50	
10/17/2004	22PC-117.5-120-D	117.50	120.00	
10/17/2004	22PC-120-122.5-D	120.00	122.50	
10/17/2004	22PC-122.5-125-D	122.50	125.00	
10/17/2004	22PC-125-127.5-D	125.00	127.50	
10/17/2004	22PC-127.5-130-D	127.50	130.00	
10/17/2004	22PC-130-132.5-D	130.00	132.50	
10/17/2004	22PC-132.5-135-D	132.50	135.00	
10/17/2004	22PC-135-137.5-D	135.00	137.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/17/2004	22PC-137.5-140-D	137.50	140.00	
10/17/2004	22PC-140-142.5-D	140.00	142.50	
10/17/2004	22PC-142.5-145-D	142.50	145.00	
10/17/2004	22PC-145-147.5-D	145.00	147.50	
10/17/2004	22PC-147.5-150-D	147.50	150.00	
10/17/2004	22PC-150-152.5-D	150.00	152.50	
10/17/2004	22PC-152.5-155-D	152.50	155.00	
10/17/2004	22PC-155-157.5-D	155.00	157.50	
10/17/2004	22PC-157.5-160-D	157.50	160.00	
10/17/2004	22PC-160-162.5-D	160.00	162.50	
10/17/2004	22PC-162.5-165-D	162.50	165.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/17/2004	22PC-165-167.5-D	165.00	167.50	
10/17/2004	22PC-167.5-170-D	167.50	170.00	
10/17/2004	22PC-170-172.5-D	170.00	172.50	
10/17/2004	22PC-172.5-175-D	172.50	175.00	
10/18/2004	22PC-175-177.5-D	175.00	177.50	Moisture is probably residual from previous drilling operation at this site (177.5 ft to 230 ft).
10/18/2004	22PC-177.5-180-D	177.50	180.00	
10/18/2004	22PC-180-182.5-D	180.00	182.50	
10/18/2004	22PC-182.5-185-D	182.50	185.00	
10/18/2004	22PC-185-187.5-D	185.00	187.50	
10/18/2004	22PC-187.5-190-D	187.50	190.00	
10/18/2004	22PC-190-192.5-D	190.00	192.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/18/2004	22PC-192.5-195-D	192.50	195.00	
10/18/2004	22PC-195-197.5-D	195.00	197.50	
10/18/2004	22PC-197.5-200-D	197.50	200.00	
10/18/2004	22PC-200-202.5-D	200.00	202.50	
10/18/2004	22PC-202.5-205-D	202.50	205.00	
10/18/2004	22PC-205-207.5-D	205.00	207.50	
10/18/2004	22PC-207.5-210-D	207.50	210.00	
10/18/2004	22PC-210-212.5-D	210.00	212.50	
10/18/2004	22PC-212.5-215-D	212.50	215.00	
10/18/2004	22PC-215-217.5-D	215.00	217.50	
10/18/2004	22PC-217.5-220-D	217.50	220.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/18/2004	22PC-220-222.5-D	220.00	222.50	
10/18/2004	22PC-222.5-225-D	222.50	225.00	
10/18/2004	22PC-225-227.5-D	225.00	227.50	
10/18/2004	22PC-227.5-230-D	227.50	230.00	
10/18/2004	22PC-230-232.5-D	230.00	232.50	
10/18/2004	22PC-232.5-235-D	232.50	235.00	
10/18/2004	22PC-235-237.5-D	235.00	237.50	Split samples using cone and quarter method 215 ft to 460 ft.
10/18/2004	22PC-237.5-240-D	237.50	240.00	
10/18/2004	22PC-240-242.5-D	240.00	242.50	
10/18/2004	22PC-242.5-245-D	242.50	245.00	
10/18/2004	22PC-245-247.5-D	245.00	247.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/18/2004	22PC-247.5-250-D	247.50	250.00	
10/18/2004	22PC-250-252.5-D	250.00	252.50	
10/18/2004	22PC-252.5-255-D	252.50	255.00	
10/18/2004	22PC-255-257.5-D	255.00	257.50	
10/18/2004	22PC-257.5-260-D	257.50	260.00	
10/18/2004	22PC-260-262.5-D	260.00	262.50	
10/18/2004	22PC-262.5-265-D	262.50	265.00	
10/18/2004	22PC-265-267.5-D	265.00	267.50	
10/18/2004	22PC-267.5-270-D	267.50	270.00	
10/18/2004	22PC-270-272.5-D	270.00	272.50	
10/18/2004	22PC-272.5-275-D	272.50	275.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/19/2004	22PC-275-277.5-D	275.00	277.50	From 275 ft to 350 ft moisture is probably residual from previous drilling operations at this site.
10/19/2004	22PC-277.5-280-D	277.50	280.00	
10/19/2004	22PC-280-282.5-D	280.00	282.50	
10/19/2004	22PC-282.5-285-D	282.50	285.00	
10/19/2004	22PC-285-287.5-D	285.00	287.50	
10/19/2004	22PC-287.5-290-D	287.50	290.00	
10/19/2004	22-PC-290-292.5-D	290.00	292.50	
10/19/2004	22PC-292.5-295-D	292.50	295.00	
10/19/2004	22PC-295-297.5-D	295.00	297.50	
10/19/2004	22PC-297.5-300-D	297.50	300.00	
10/19/2004	22PC-300-302.5-D	300.00	302.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/19/2004	22PC-302.5-305-D	302.50	305.00	
10/19/2004	22PC-305-307.5-D	305.00	307.50	
10/19/2004	22PC-307.5-310-D	307.50	310.00	
10/19/2004	22PC-310-312.5-D	310.00	312.50	
10/19/2004	22PC-312.5-315-D	312.50	315.00	
10/19/2004	22PC-315-317.5-D	315.00	317.50	
10/19/2004	22PC-317.5-320-D	317.50	320.00	
10/19/2004	22PC-320-322.5-D	320.00	322.50	
10/19/2004	22PC-322.5-325-D	322.50	325.00	
10/19/2004	22PC-325-327.5-D	325.00	327.50	
10/19/2004	22PC-327.5-330-D	327.50	330.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/19/2004	22PC-330-332.5-D	330.00	332.50	
10/19/2004	22PC-332.5-335-D	332.50	335.00	
10/19/2004	22PC-335-337.5-D	335.00	337.50	
10/19/2004	22PC-337.5-340-D	337.50	340.00	
10/19/2004	22PC-340-342.5-D	340.00	342.50	
10/19/2004	22PC-342.5-345-D	342.50	345.00	
10/19/2004	22PC-345-347.5-D	345.00	347.50	
10/19/2004	22PC-347.5-350-D	347.50	350.00	
10/19/2004	22PC-350-352.5-D	350.00	352.50	
10/19/2004	22PC-352.5-355-D	352.50	355.00	
10/19/2004	22PC-355-357.5-D	355.00	357.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/19/2004	22PC-357.5-360-D	357.50	360.00	
10/19/2004	22PC-360-362.5-D	360.00	362.50	
10/19/2004	22PC-362.5-365-D	362.50	365.00	
10/19/2004	22PC-365-367.5-D	365.00	367.50	
10/19/2004	22PC-367.5-370-D	367.50	370.00	
10/19/2004	22PC-370-372.5-D	370.00	372.50	
10/19/2004	22PC-372.5-375-D	372.50	375.00	
10/19/2004	22PC-375-377.5-D	375.00	377.50	
10/19/2004	22PC-377.5-380-D	377.50	380.00	
10/19/2004	22PC-380-382.5-D	380.00	382.50	
10/19/2004	22PC-382.5-385-D	382.50	385.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/19/2004	22PC-385-387.5-D	385.00	387.50	
10/19/2004	22PC-387.5-390-D	387.50	390.00	
10/19/2004	22PC-390-392.5-D	390.00	392.50	
10/19/2004	22PC-392.5-395-D	392.50	395.00	
10/19/2004	22PC-395-397.5-D	395.00	397.50	
10/19/2004	22PC-397.5-400-D	397.50	400.00	
10/19/2004	22PC-400-402.5-D	400.00	402.50	
10/19/2004	22PC-402.5-405-D	402.50	405.00	
10/19/2004	22PC-405-407.5-D	405.00	407.50	
10/19/2004	22PC-407.5-410-D	407.50	410.00	Becoming drier at 410 ft. Drilling boulders.
10/19/2004	22PC-410-412.5-D	410.00	412.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/19/2004	22PC-412.5-415-D	412.50	415.00	Starting at 412.5 ft, drilling slow and driller is raising and lowering bit.
10/19/2004	22PC-415-417.5-D	415.00	417.50	
10/19/2004	22PC-417.5-420-D	417.50	420.00	
10/19/2004	22PC-420-422.5-D	420.00	422.50	
10/19/2004	22PC-422.5-425-D	422.50	425.00	
10/19/2004	22PC-425-427.5-D	425.00	427.50	
10/19/2004	22PC-427.5-430-D	427.50	430.00	
10/19/2004	22PC-430-432.5-D	430.00	432.50	
10/19/2004	22PC-432.5-435-D	432.50	435.00	
10/20/2004	22PC-435-437.5-D	435.00	437.50	From 435 ft to 460 ft, all samples are impacted by rainy conditions, as are "cone and quarter" tarps and equipment. Moisture from rain results in loss of fines due to sticking to buckets, wheelbarrows, tarps and seives.
10/20/2004	22PC-437.5-440-D	437.50	440.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
10/20/2004	22PC-440-442.5-D	440.00	442.50	
10/20/2004	22PC-442.5-445-D	442.50	445.00	
10/20/2004	22PC-445-447.5-D	445.00	447.50	
10/20/2004	22PC-447.5-450-D	447.50	450.00	
10/20/2004	22PC-450-452.5-D	450.00	452.50	
10/20/2004	22PC-452.5-455-D	452.50	455.00	
10/20/2004	22PC-455-457.5-D	455.00	457.50	
10/20/2004	22PC-457.5-460-D	457.50	460.00	TD 460 ft.