

C1 1127 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER A 520 415

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED 9 20 2010

DEPTH OF WELL 22 200 26 (TO NEAREST FOOT) 2/4/2011 PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-1995

OWNER Greenfield Homes Inc STREET OR RFD Willow Pond SECTION 9 TOWN Clarksville LOT 9

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Sand (0-63) and Gray Mica Rock (63-200).

GROUTING RECORD form including: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM), NO. OF BAGS (14), NO. OF POUNDS (1376), GALLONS OF WATER (84), DEPTH OF GROUT SEAL (0-56).

CASING RECORD form including: casing types (ST, CO, PL, OT), MAIN CASING TYPE (ST), Nominal diameter (6), Total depth (68).

OTHER CASING table with columns: diameter inch, depth (feet) from, to.

SCREEN RECORD form including: screen type (ST, BR, HO, PL, OT), DEPTH (nearest ft.) 166, 200.

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y) (N) CIRCLE APPROPRIATE LETTER

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 28.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. 1 MS DO 24 DRILLERS SIGNATURE Joseph E. Mayne

LIC. NO. 1 MS DO 22 DRILLERS SIGNATURE Larry Mayne

SITE SUPERVISOR sign. of driller or journeyman responsible for sitework if different from permittee

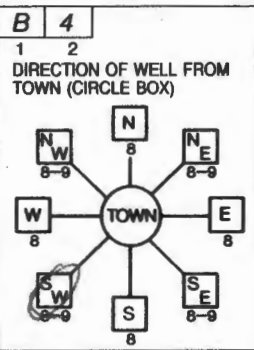
DEPTH (nearest ft.) table with columns: 1-21, 23-36, 38-51, 53-66, 68-81, 83-96, 98-111, 113-126, 128-141, 143-156, 158-171, 173-186, 188-201, 203-216, 218-231, 233-246, 248-261, 263-276, 278-291, 293-306, 308-321, 323-336, 338-351, 353-366, 368-381, 383-396, 398-411, 413-426, 428-441, 443-456, 458-471, 473-486, 488-501, 503-516, 518-531, 533-546, 548-561, 563-576, 578-591, 593-606, 608-621, 623-636, 638-651, 653-666, 668-681, 683-696, 698-711, 713-726, 728-741, 743-756, 758-771, 773-786, 788-801, 803-816, 818-831, 833-846, 848-861, 863-876, 878-891, 893-906, 908-921, 923-936, 938-951, 953-966, 968-981, 983-996, 998-1011, 1013-1026, 1028-1041, 1043-1056, 1058-1071, 1073-1086, 1088-1101, 1103-1116, 1118-1131, 1133-1146, 1148-1161, 1163-1176, 1178-1191, 1193-1206, 1208-1221, 1223-1236, 1238-1251, 1253-1266, 1268-1281, 1283-1296, 1298-1311, 1313-1326, 1328-1341, 1343-1356, 1358-1371, 1373-1386, 1388-1401, 1403-1416, 1418-1431, 1433-1446, 1448-1461, 1463-1476, 1478-1491, 1493-1506, 1508-1521, 1523-1536, 1538-1551, 1553-1566, 1568-1581, 1583-1596, 1598-1611, 1613-1626, 1628-1641, 1643-1656, 1658-1671, 1673-1686, 1688-1701, 1703-1716, 1718-1731, 1733-1746, 1748-1761, 1763-1776, 1778-1791, 1793-1806, 1808-1821, 1823-1836, 1838-1851, 1853-1866, 1868-1881, 1883-1896, 1898-1911, 1913-1926, 1928-1941, 1943-1956, 1958-1971, 1973-1986, 1988-2001, 2003-2016, 2018-2031, 2033-2046, 2048-2061, 2063-2076, 2078-2091, 2093-2106, 2108-2121, 2123-2136, 2138-2151, 2153-2166, 2168-2181, 2183-2196, 2198-2211, 2213-2226, 2228-2241, 2243-2256, 2258-2271, 2273-2286, 2288-2301, 2303-2316, 2318-2331, 2333-2346, 2348-2361, 2363-2376, 2378-2391, 2393-2406, 2408-2421, 2423-2436, 2438-2451, 2453-2466, 2468-2481, 2483-2496, 2498-2511, 2513-2526, 2528-2541, 2543-2556, 2558-2571, 2573-2586, 2588-2601, 2603-2616, 2618-2631, 2633-2646, 2648-2661, 2663-2676, 2678-2691, 2693-2706, 2708-2721, 2723-2736, 2738-2751, 2753-2766, 2768-2781, 2783-2796, 2798-2811, 2813-2826, 2828-2841, 2843-2856, 2858-2871, 2873-2886, 2888-2901, 2903-2916, 2918-2931, 2933-2946, 2948-2961, 2963-2976, 2978-2991, 2993-3006, 3008-3021, 3023-3036, 3038-3051, 3053-3066, 3068-3081, 3083-3096, 3098-3111, 3113-3126, 3128-3141, 3143-3156, 3158-3171, 3173-3186, 3188-3201, 3203-3216, 3218-3231, 3233-3246, 3248-3261, 3263-3276, 3278-3291, 3293-3306, 3308-3321, 3323-3336, 3338-3351, 3353-3366, 3368-3381, 3383-3396, 3398-3411, 3413-3426, 3428-3441, 3443-3456, 3458-3471, 3473-3486, 3488-3501, 3503-3516, 3518-3531, 3533-3546, 3548-3561, 3563-3576, 3578-3591, 3593-3606, 3608-3621, 3623-3636, 3638-3651, 3653-3666, 3668-3681, 3683-3696, 3698-3711, 3713-3726, 3728-3741, 3743-3756, 3758-3771, 3773-3786, 3788-3801, 3803-3816, 3818-3831, 3833-3846, 3848-3861, 3863-3876, 3878-3891, 3893-3906, 3908-3921, 3923-3936, 3938-3951, 3953-3966, 3968-3981, 3983-3996, 3998-4011, 4013-4026, 4028-4041, 4043-4056, 4058-4071, 4073-4086, 4088-4101, 4103-4116, 4118-4131, 4133-4146, 4148-4161, 4163-4176, 4178-4191, 4193-4206, 4208-4221, 4223-4236, 4238-4251, 4253-4266, 4268-4281, 4283-4296, 4298-4311, 4313-4326, 4328-4341, 4343-4356, 4358-4371, 4373-4386, 4388-4401, 4403-4416, 4418-4431, 4433-4446, 4448-4461, 4463-4476, 4478-4491, 4493-4506, 4508-4521, 4523-4536, 4538-4551, 4553-4566, 4568-4581, 4583-4596, 4598-4611, 4613-4626, 4628-4641, 4643-4656, 4658-4671, 4673-4686, 4688-4701, 4703-4716, 4718-4731, 4733-4746, 4748-4761, 4763-4776, 4778-4791, 4793-4806, 4808-4821, 4823-4836, 4838-4851, 4853-4866, 4868-4881, 4883-4896, 4898-4911, 4913-4926, 4928-4941, 4943-4956, 4958-4971, 4973-4986, 4988-5001, 5003-5016, 5018-5031, 5033-5046, 5048-5061, 5063-5076, 5078-5091, 5093-5106, 5108-5121, 5123-5136, 5138-5151, 5153-5166, 5168-5181, 5183-5196, 5198-5211, 5213-5226, 5228-5241, 5243-5256, 5258-5271, 5273-5286, 5288-5301, 5303-5316, 5318-5331, 5333-5346, 5348-5361, 5363-5376, 5378-5391, 5393-5406, 5408-5421, 5423-5436, 5438-5451, 5453-5466, 5468-5481, 5483-5496, 5498-5511, 5513-5526, 5528-5541, 5543-5556, 5558-5571, 5573-5586, 5588-5601, 5603-5616, 5618-5631, 5633-5646, 5648-5661, 5663-5676, 5678-5691, 5693-5706, 5708-5721, 5723-5736, 5738-5751, 5753-5766, 5768-5781, 5783-5796, 5798-5811, 5813-5826, 5828-5841, 5843-5856, 5858-5871, 5873-5886, 5888-5901, 5903-5916, 5918-5931, 5933-5946, 5948-5961, 5963-5976, 5978-5991, 5993-6006, 6008-6021, 6023-6036, 6038-6051, 6053-6066, 6068-6081, 6083-6096, 6098-6111, 6113-6126, 6128-6141, 6143-6156, 6158-6171, 6173-6186, 6188-6201, 6203-6216, 6218-6231, 6233-6246, 6248-6261, 6263-6276, 6278-6291, 6293-6306, 6308-6321, 6323-6336, 6338-6351, 6353-6366, 6368-6381, 6383-6396, 6398-6411, 6413-6426, 6428-6441, 6443-6456, 6458-6471, 6473-6486, 6488-6501, 6503-6516, 6518-6531, 6533-6546, 6548-6561, 6563-6576, 6578-6591, 6593-6606, 6608-6621, 6623-6636, 6638-6651, 6653-6666, 6668-6681, 6683-6696, 6698-6711, 6713-6726, 6728-6741, 6743-6756, 6758-6771, 6773-6786, 6788-6801, 6803-6816, 6818-6831, 6833-6846, 6848-6861, 6863-6876, 6878-6891, 6893-6906, 6908-6921, 6923-6936, 6938-6951, 6953-6966, 6968-6981, 6983-6996, 6998-7011, 7013-7026, 7028-7041, 7043-7056, 7058-7071, 7073-7086, 7088-7101, 7103-7116, 7118-7131, 7133-7146, 7148-7161, 7163-7176, 7178-7191, 7193-7206, 7208-7221, 7223-7236, 7238-7251, 7253-7266, 7268-7281, 7283-7296, 7298-7311, 7313-7326, 7328-7341, 7343-7356, 7358-7371, 7373-7386, 7388-7401, 7403-7416, 7418-7431, 7433-7446, 7448-7461, 7463-7476, 7478-7491, 7493-7506, 7508-7521, 7523-7536, 7538-7551, 7553-7566, 7568-7581, 7583-7596, 7598-7611, 7613-7626, 7628-7641, 7643-7656, 7658-7671, 7673-7686, 7688-7701, 7703-7716, 7718-7731, 7733-7746, 7748-7761, 7763-7776, 7778-7791, 7793-7806, 7808-7821, 7823-7836, 7838-7851, 7853-7866, 7868-7881, 7883-7896, 7898-7911, 7913-7926, 7928-7941, 7943-7956, 7958-7971, 7973-7986, 7988-8001, 8003-8016, 8018-8031, 8033-8046, 8048-8061, 8063-8076, 8078-8091, 8093-8106, 8108-8121, 8123-8136, 8138-8151, 8153-8166, 8168-8181, 8183-8196, 8198-8211, 8213-8226, 8228-8241, 8243-8256, 8258-8271, 8273-8286, 8288-8301, 8303-8316, 8318-8331, 8333-8346, 8348-8361, 8363-8376, 8378-8391, 8393-8406, 8408-8421, 8423-8436, 8438-8451, 8453-8466, 8468-8481, 8483-8496, 8498-8511, 8513-8526, 8528-8541, 8543-8556, 8558-8571, 8573-8586, 8588-8601, 8603-8616, 8618-8631, 8633-8646, 8648-8661, 8663-8676, 8678-8691, 8693-8706, 8708-8721, 8723-8736, 8738-8751, 8753-8766, 8768-8781, 8783-8796, 8798-8811, 8813-8826, 8828-8841, 8843-8856, 8858-8871, 8873-8886, 8888-8901, 8903-8916, 8918-8931, 8933-8946, 8948-8961, 8963-8976, 8978-8991, 8993-9006, 9008-9021, 9023-9036, 9038-9051, 9053-9066, 9068-9081, 9083-9096, 9098-9111, 9113-9126, 9128-9141, 9143-9156, 9158-9171, 9173-9186, 9188-9201, 9203-9216, 9218-9231, 9233-9246, 9248-9261, 9263-9276, 9278-9291, 9293-9306, 9308-9321, 9323-9336, 9338-9351, 9353-9366, 9368-9381, 9383-9396, 9398-9411, 9413-9426, 9428-9441, 9443-9456, 9458-9471, 9473-9486, 9488-9501, 9503-9516, 9518-9531, 9533-9546, 9548-9561, 9563-9576, 9578-9591, 9593-9606, 9608-9621, 9623-9636, 9638-9651, 9653-9666, 9668-9681, 9683-9696, 9698-9711, 9713-9726, 9728-9741, 9743-9756, 9758-9771, 9773-9786, 9788-9801, 9803-9816, 9818-9831, 9833-9846, 9848-9861, 9863-9876, 9878-9891, 9893-9906, 9908-9921, 9923-9936, 9938-9951, 9953-9966, 9968-9981, 9983-9996, 9998-10011, 10013-10026, 10028-10041, 10043-10056, 10058-10071, 10073-10086, 10088-10101, 10103-10116, 10118-10131, 10133-10146, 10148-10161, 10163-10176, 10178-10191, 10193-10206, 10208-10221, 10223-10236, 10238-10251, 10253-10266, 10268-10281, 10283-10296, 10298-10311, 10313-10326, 10328-10341, 10343-10356, 10358-10371, 10373-10386, 10388-10401, 10403-10416, 10418-10431, 10433-10446, 10448-10461, 10463-10476, 10478-10491, 10493-10506, 10508-10521, 10523-10536, 10538-10551, 10553-10566, 10568-10581, 10583-10596, 10598-10611, 10613-10626, 10628-10641, 10643-10656, 10658-10671, 10673-10686, 10688-10701, 10703-10716, 10718-10731, 10733-10746, 10748-10761, 10763-10776, 10778-10791, 10793-10806, 10808-10821, 10823-10836, 10838-10851, 10853-10866, 10868-10881, 10883-10896, 10898-10911, 10913-10926, 10928-10941, 10943-10956, 10958-10971, 10973-10986, 10988-11001, 11003-11016, 11018-11031, 11033-11046, 11048-11061, 11063-11076, 11078-11091, 11093-11106, 11108-11121, 11123-11136, 11138-11151, 11153-11166, 11168-11181, 11183-11196, 11198-11211, 11213-11226, 11228-11241, 11243-11256, 11258-11271, 11273-11286, 11288-11301, 11303-11316, 11318-11331, 11333-11346, 11348-11361, 11363-11376, 11378-11391, 11393-11406, 11408-11421, 11423-11436, 11438-11451, 11453-11466, 11468-11481, 11483-11496, 11498-11511, 11513-11526, 11528-11541, 11543-11556, 11558-11571, 11573-11586, 11588-11601, 11603-11616, 11618-11631, 11633-11646, 11648-11661, 11663-11676, 11678-11691, 11693-11706, 11708-11721, 11723-11736, 11738-11751, 11753-11766, 11768-11781, 11783-11796, 11798-11811, 11813-11826, 11828-11841, 11843-11856, 11858-11871, 11873-11886, 11888-11901, 11903-11916, 11918-11931, 11933-11946, 11948-11961, 11963-11976, 11978-11991, 11993-12006, 12008-12021, 12023-12036, 12038-12051, 12053-12066, 12068-12081, 12083-12096, 12098-12111, 12113-12126, 12128-12141, 12143-12156, 12158-12171, 12173-12186, 12188-12201, 12203-12216, 12218-12231, 12233-12246, 12248-12261, 12263-12276, 12278-12291, 12293-12306, 12308-12321, 12323-12336, 12338-12351, 12353-12366, 12368-12381, 12383-12396, 12398-12411, 12413-12426, 12428-12441, 12443-12456, 12458-12471, 12473-12486, 12488-12501, 12503-12516, 12518-12531, 12533-12546, 12548-12561, 12563-12576, 12578-12591, 12593-12606, 12608-12621, 12623-12636, 12638-12651, 12653-12666, 12668-12681, 12683-12696, 12698-12711, 12713-12726, 12728-12741, 12743-12756, 12758-12771, 12773-12786, 12788-12801, 12803-12816, 12818-12831, 12833-12846, 12848-12861, 12863-12876, 12878-12891, 12893-12906, 12908-12921, 12923-12936, 12938-12951, 12953-12966, 12968-12981, 12983-12996, 12998-13011, 13013-13026, 13028-13041, 13043-13056, 13058-13071, 13073-13086, 13088-13101, 13103-13116, 13118-13131, 13133-13146, 13148-13161, 13163-13176, 13178-13191, 13193-13206, 13208-13221, 13223-13236, 13238-13251, 13253-13266, 13268-13281, 13283-13296, 13298-13311, 13313-13326, 13328-13341, 13343-13356, 13358-13371, 13373-13386, 13388-13401, 13403-13416, 13418-13431, 13433-13446, 13448-13461, 13463-13476, 13478-13491, 13493-13506, 13508-13521, 13523-13536, 13538-13551, 13553-13566, 13568-13581, 13583-13596, 13598-13611, 13613-13626, 13628-13641, 13643-13656, 13658-13671, 13673-13686, 13688-13701, 13703-13716, 13718-13731, 13733-13746, 13748-13761, 13763-13776, 13778-13791, 13793-13806, 13808-13821, 13823-13836, 13838-13851, 13853-13866, 13868-13881, 13883-13896, 13898-13911, 13913-13926, 13928-13941, 13943-13956, 13958-13971, 13973-13986, 13988-14001, 14003-14016, 14018-14031, 14033-14046, 14048-14061, 14063-14076, 14078-14091, 14093-14106, 14108-14121, 14123-14136, 14138-14151, 14153-14166, 14168-14181, 14183-14196, 14198-14211, 14213-14226, 14228-14241, 14243-14256, 14258-14271, 14273-14286, 14288-14301, 14303-14316, 14318-14331, 14333-14346, 14348-14361, 14363-14376, 14378-14391, 14393-14406, 14408-14421, 14423-14436, 14438-14451, 14453-14466, 14468-14481, 14483-14496, 14498-14511, 14513-14526, 14528-14541, 14543-14556, 14558-14571, 14573-14586, 14588-14601, 14603-

B 1 3407 SEQUENCE NO. (MDE USE ONLY) STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 534010 STATE PERMIT NUMBER 70 79 HO-95-1995 fill in this form completely

8 08 30 10 13 Date Received (APA) OWNER INFORMATION 15 Greenfield Homes Inc Last Name Owner First Name 34 36 6656 Luster Drive Street or RFD 55 57 Highland Md 20777 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL 8 Howard COUNTY 21 23 Willow Pond SUBDIVISION 42 SECTION 44 46 LOT 9 48 50 52 Clarksville NEAREST TOWN 71 MILES FROM TOWN (enter 0 if in town) 1 MI 73 76 77 78

DRILLER INFORMATION 76 Joseph L. Mayne Driller's Name M S D 024 License No. 81 76 Joseph L. Mayne Well Drilling Firm Name 5512 Ridge Rd Mt. Airy Md 21771 Address 76 Joseph L. Mayne 8-24-2010 Signature Date



B 4 1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX) 11 Prestwick Dr - Access Dr NEAR WHAT ROAD 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) 660 34 37 WEST SOUTH EAST DISTANCE FROM ROAD 660 FT ENTER FT OR MI 38 39 TAX MAP: 34 BLK: 17 PARCEL: 392

B 2 WELL INFORMATION 1 2 APPROX. PUMPING RATE 4 GAL. PER MIN. 8 500 12 AVERAGE DAILY QUANTITY NEEDED 14 20 GAL. PER DAY

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard (13) A520415 COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S 41 DATE ISSUED 9/13/2010 Brian Baker 9/13/2011 CO SIGNATURE EXP. DATE NORTH GRID 496 000 EAST GRID 813 000 50 55 57 63

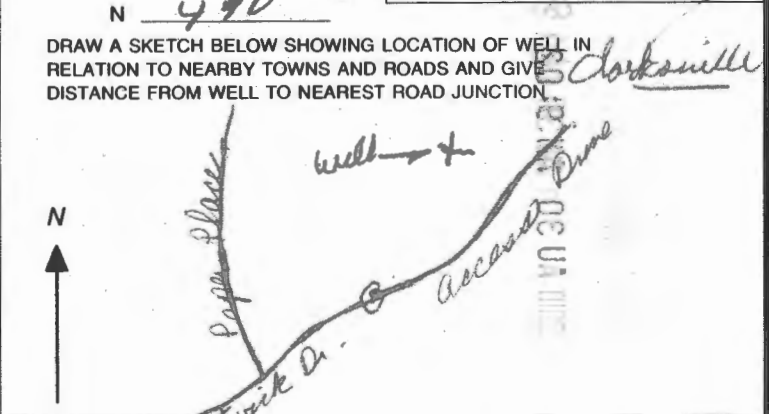
- USE FOR WATER (CIRCLE APPROPRIATE BOX) [D] DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION [F] FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) [I] INDUSTRIAL, COMMERCIAL, DEWATERING [P] PUBLIC WATER SUPPLY WELL [T] TEST, OBSERVATION, MONITORING [G] GEO-THERMAL

APPROXIMATE DEPTH OF WELL 400 FEET 24 28 APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X 9/20/10 68' casing Bedrock @ 62' SOURCES OF DRILLING WATER 1. well 2. 3. WRITE THE BOX NUMBER FROM THE MAP HERE E 8103 N 496

METHOD OF DRILLING (circle one) BORED (or Augered) JETTED Jetted & DRIVEN 30 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary) 37 CABLE REVERSE-ROTARY DRIVE-POINT other

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) [N] THIS WELL WILL NOT REPLACE AN EXISTING WELL [Y] THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED [S] THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS [D] THIS WELL WILL DEEPEM AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52



Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROX. PERMIT NUMBER G PERMIT No. HO-95-1995 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED Need to Collect Radium Sample During Yield Test. © COUNTY

Faxed 3-15-2019
3-18-2019

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Gartland Plumbing Telephone #: 410-825-5303
Address: 1620 Runkles Rd
Sykesville, MD 21284

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:

Name (Print): James J. Gartland III License# 5362

*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: Greenfield Homes Telephone #: 410-365-7202
Subdivision: Willow Pond Lot #: 9 Well Tag #: HO-95-1995
Site Address: 6517 Heather Glen Way
Clarksville, MD 21029

Submersible Pump Data

Make: Goulds
Model #: 10G5154227
Pump Capacity: 15 GPM
Well Yield: 20 GPM

Pitless Adapter

Make: Campbell
Model #: R-20XLF
Depth: 48 (36" min)
NSF approved: yes

Well Cap and Electric Conduit

Two piece watertight cap:
Screened, vented well cap:
Cap secured to casing:
Conduit min 18" B.G.:
Conduit secured to well cap:

Depth of well encountered at time of pump installation: 200 (feet)

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Torque arrestors of Cable guards are required - Must circle one

Safety rope, if used, attached to inside of well casing with eye bolt NO


Piping to house

Type: Poly
PSI: 160 (160 psi min)
Depth of supply line: 48 (36" min)

House Connection

PVC sleeved to undisturbed soil at wall penetration: Yes under footer
Approximate length of sleeve: 100'
Sleeve caulked and sealed properly: Yes

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.


Signature of company representative responsible for installation

March 15, 2019
date

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: 3/14/2019 Date Insp. Approved: 3/14/2019 JC

Inspection Data: Pitless adapter and water supply line at least 36" below grade
Two piece cap installed and attached to casing securely
Elec. conduit extends at least 18" below grade/attached to cap properly
Safety rope installed inside of well casing
Correct well tag attached properly and casing 8" above finished grade
Water supply line sleeved adequately at house connection
Adequate grout observed below pitless adapter

under footer

Maura J. Rossman, M.D., Health Officer

INTERIM CERTIFICATE OF POTABILITY
PERMANENT DEVIATION FOR RADIUM

Expiration Date – January 31, 2021

July 31, 2020

Homeowner
6517 Heather Glen Way
Clarksville, MD 21029

RE: Willow Pond, Lot 7
6517 Heather Glen Way
Building Permit: B18003067
Well Permit: HO-95-1995

Dear Homeowner:

This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on **9/10/2019**. Final approval of the well line connection to the dwelling was granted on **3/4/2019**. The well construction was completed on **9/20/2010**. Water samples were collected on 9/19/2019.

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking.

Gross Alpha and Beta samples were also collected on **9/20/2010**. Results showed a Gross Alpha level of **28.7 ± 4.0 pCi/L** and a Gross Beta level of **36.3 ± 2.9 pCi/L**. **This exceeds the maximum contaminant level (MCL) combined Radium 226 and 228 of 5.0 pCi/L.**

After installation of a radionuclide removal device (Water Softener), post-treatment water samples were collected on **12/18/2019** and indicated a combined Radium 226/228 level of **<1.1 pCi/L** which is below the MCL of 5 pCi/L.

This Department will grant a **permanent deviation** to the Interim Certificate of Potability on condition that the radionuclide removal system effectively maintains a Gross Alpha level of less than **15 pCi/L**, a Gross Beta level of less than **50 pCi/L**, and a Radium 226/228 level of less than **5 pCi/L**.

Furthermore, it will be necessary for you to comply with the following conditions:

1. The system must be properly operated and maintained continuously in accordance with the service contract for the life of the residence.
2. It is recommended that a Maryland certified water laboratory certified for radionuclide analysis perform a yearly radionuclide analysis.

Maura J. Rossman, M.D., Health Officer

3. If you decide to sell or rent your home in the future, you must make any potential buyer/tenant aware of this permanent deviation. **A person who fails to make this disclosure is subject to the penalties set out in COMAR 26.04.04.12F Enforcement and Environment Article 9-1311, Annotated Code of Maryland.**

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-95-1995. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

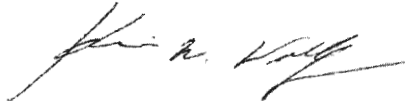
This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will be issued. **Failure to submit an additional sample and obtain a Final Certificate of Potability will result in a Notice of Violation and is punishable as a misdemeanor under the *Annotated Code of Maryland, Environment Article, 9-1311*, subject to a fine of up to \$500 or imprisonment not to exceed three months.**

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a Maryland certified water quality laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website:

<http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

In closing, please refer to our "[Homeowner Fact Sheet](#)" which illustrates a better understanding for your onsite sewage disposal system. You will also find a link to Maryland Department of the Environment website which describes in further detail operation and maintenance of your septic system.

Approving Authority,



Kevin M Wolf, L.E.H.S., R.E.H.S./RS, Supervisor
Groundwater Management Section
Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits
Community Hygiene Program
File

Bricker, Robert

From: Bricker, Robert
Sent: Wednesday, December 11, 2019 10:26 AM
To: 'raminor@comcast.net'
Cc: Wolf, Kevin
Subject: 6517 Heather Glen Way_post treatment analyses needed
Attachments: Radium Agreement revised 6 19 15.pdf; Willow Pond_Lot 9_radium screening results letter_Oct28-2010.pdf

Rick, Post-treatment analyses needed at 6517 Heather Glen Way are as follow:

Short-term Gross Alpha
Long-term Gross Alpha
Short-term Gross Beta
Long-term Gross Beta
Radium 226/228

The samples for these analyses must be obtained all at the same time.

I am attaching a copy of the letter for the original screening results, and a blank treatment agreement form. The treatment agreement form must be signed by the 'Buyers', and our Bureau Director, before being submitted for recording. A copy of the Land Records receipt may be submitted to the Health Department for release of the Permanent Deviation letter to achieve occupancy.

ROBERT BRICKER, REHS/R.S., L.E.H.S.
ENVIRONMENTAL SANITARIAN II
BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
8930 STANFORD BLVD., COLUMBIA, MD 21045

Phone: Desk, 410-313-2691; Program, 410-313-1771; Bureau, 410-313-1774
Fax: 410-313-2648

E-mail: rbricker@howardcountymd.gov



CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 132984.1 Account #: 1045
Reference: Rick Minor Company: Atlantic Blue Water Services
Location: 6517 Heather Glen Way Requested By: Mark Mather
Clarksville, MD 21029 Source: Well Water
Date/ Time Collected: 9/19/2019 0945 Site: Kitchen Sink Tap
Date/Time Rec'd: 9/20/2019 1459 Treatment: Sediment Filter/Softener
Chlorine ppm: Free: ND Total: ND pH: 7.0
Collected By: J. Sands 9353JS Well #: HO-95-1995

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Radium-226	0.4	pCi/L	****	903.1	10/3/2019 / 1003 / MJN
Radium-228	<0.7	pCi/L	****	Ra-05	10/1/2019 / 1126 / SN

NOTES

- ****Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- pCi/L = picocuries per liter
- Radium 226 Detection Limit: 0.1 pCi/L; Radium 228 Detection Limit: 0.7 pCi/L
- Sub-contracted to Reference Lab #278
- ND:None Detected
- Visual well check: Sealed, vented cap
- pH tested on site; Chlorine level tested in lab

Reason for Test : Use & Occupancy

Building Permit # : B-18003067

Date Reported: 10/7/2019

Bricker, Robert

From: Bricker, Robert
Sent: Wednesday, November 27, 2019 12:14 PM
To: 'raminor@comcast.net'
Subject: 6517 Heather Glen Way_water analyses-radium
Importance: High

Rick,
An ICOP cannot be released by the Health Department at this time for 6517 Heather Glen Way (Willow Pond, Lot 9). For the sample analyzed in 2010, the Gross Alpha concentration exceeded standards and the Gross Beta concentration was higher than typically observed in Howard County. Follow-up analyses are needed for Short-Term Alpha and Short-Term Beta, Long-Term Alpha and Long-Term Beta, and Radium 226/228. These samples to be analyzed are all to be taken post-treatment.

ROBERT BRICKER, REHS/R.S., L.E.H.S.
ENVIRONMENTAL SANITARIAN II
BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
8930 STANFORD BLVD., COLUMBIA, MD 21045

Phone: Desk, 410-313-2691; Program, 410-313-1771; Bureau, 410-313-1774
Fax: 410-313-2648

E-mail: rbricker@howardcountymd.gov



CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 134740	Account #: 1045	
Reference: Rick Minor	Company: Atlantic Blue Water Services	
Location: 6517 Heather Glen Way Clarksville, MD 21029	Requested By: Mark Mather	
Date/ Time Collected: 12/18/2019 1215	Source: Well Water	
Date/Time Rec'd: 12/18/2019 1420	Site: Kitchen Sink Tap	
Chlorine ppm: Free: ND Total: ND	Treatment: Sediment Filter/Softener/Ion Pro	
Collected By: J. Sands 9353JS	pH: 7.0	
	Well #: HO-95-1995	

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Gross Alpha, Long Term	<1.2	pCi/L	15	900.0	12/31/2019 / 0629 / MJN
Gross Alpha, Short Term	<1.2	pCi/L	15	900.0	12/23/2019 / 0954 / MJN
Gross Beta, Long Term	<2.4	pCi/L	50	900.0	12/31/2019 / 0629 / MJN
Gross Beta, Short Term	3.6	pCi/L	50	900.0	12/23/2019 / 0954 / MJN
Radium-226	0.5	pCi/L	****	903.1	1/2/2020 / 1347 / MJN
Radium-228	<0.8	pCi/L	****	Ra-05	12/31/2019 / 1141 / SN

{
1.1 combined

NOTES

- 1 ****Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- 2 Long Term Gross Alpha Detection Limit: 1.2 pCi/L; Long Term Gross Beta Detection Limit: 2.4 pCi/L
- 3 Long Term Gross Alpha Error: +/- 1.0 pCi/L; Long Term Gross Beta Error: +/- 1.5 pCi/L
- 4 pCi/L = picocuries per liter
- 5 Radium 226 Detection Limit: 0.2 pCi/L; Radium 228 Detection Limit: 0.8 pCi/L
- 6 Radium 226 Error: +/- 0.2 pCi/L; Radium 228 Error: +/- 0.5 pCi/L
- 7 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 8 Sample collected by client, analyzed as received
- 9 Short Term Gross Alpha Detection Limit: 1.2 pCi/L; Short Term Gross Beta Detection Limit: 2.3 pCi/L
- 10 Short Term Gross Alpha Error: +/- 0.9 pCi/L; Short Term Gross Beta Error: +/- 1.5 pCi/L
- 11 ND:None Detected
- 12 Subcontracted to Reference Lab #278
- 13 pH tested on site; Chlorine level tested in lab

Reason for Test : Use & Occupancy
 Building Permit # : B-18003067

Date Reported: 1/3/2020

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 132984 Account #: 1045
Reference: Rick Minor Company: Atlantic Blue Water Services
Location: 6517 Heather Glen Way Requested By: Mark Mather
Clarksville, MD 21029 Source: Well Water
Date/ Time Collected: 9/19/2019 0945 Site: Kitchen Sink Tap
Date/Time Rec'd: 9/20/2019 1459 Treatment: Sediment Filter/Softener
Chlorine ppm: Free: ND Total: ND pH: 7.0
Collected By: J. Sands 9353JS Well #: HO-95-1995

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	✓ <1.0	MPN/ 100 ml	<1.0	SM20 9223B	9/21/2019 / 0930 / CCH
Bacteria, E. coli, MPN	✓ <1.0	MPN/ 100 ml	<1.0	SM20 9223B	9/21/2019 / 0930 / CCH
Nitrate	✓ <1.0	mg/L	10	601	9/20/2019 / 1545 / CRS
Turbidity	✓ 0.42	NTU	<10	SM20 2130B	9/20/2019 / 1600 / CRS
Sand	✓ NS	mg/L	5	Visual/Gravimetric	9/20/2019 / 1600 / CRS

NOTES

- *Revised report: Building permit number corrected per client. 9/23/19. CH
- mg/L = milligrams per liter (also, parts per million)
- MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- NS = None Seen (NS indicates less than 5 mg/L)
- NTU = Nephelometric Turbidity Units
- Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- Sample collected by client, analyzed as received
- ND:None Detected
- Visual well check: Sealed, vented cap
- pH tested on site; Chlorine level tested in lab

Reason for Test : Use & Occupancy

Building Permit # : B-18003067*

Date Reported: 9/23/2019

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 132984 Account #: 1045
Reference: Rick Minor Company: Atlantic Blue Water Services
Location: 6517 Heather Glen Way Requested By: Mark Mather
Clarksville, MD 21029 Source: Well Water
Date/ Time Collected: 9/19/2019 0945 Site: Kitchen Sink Tap
Date/Time Rec'd: 9/20/2019 1459 Treatment: Sediment Filter/Softener
Chlorine ppm: Free: ND Total: ND pH: 7.0
Collected By: J. Sands 9353JS Well #: HO-95-1995

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0 ✓	MPN/ 100 ml	<1.0	SM20 9223B	9/21/2019 / 0930 / CCH
Bacteria, E. coli, MPN	<1.0 ✓	MPN/ 100 ml	<1.0	SM20 9223B	9/21/2019 / 0930 / CCH
Nitrate	<1.0 ✓	mg/L	10	601	9/20/2019 / 1545 / CRS
Turbidity	0.42 ✓	NTU	<10	SM20 2130B	9/20/2019 / 1600 / CRS
Sand	NS ✓	mg/L	5	Visual/Gravimetric	9/20/2019 / 1600 / CRS

OK reB 11/27/2019

NOTES

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NS = None Seen (NS indicates less than 5 mg/L)
- 4 NTU = Nephelometric Turbidity Units
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 Sample collected by client, analyzed as received
- 7 ND:None Detected
- 8 Visual well check: Sealed, vented cap
- 9 pH tested on site; Chlorine level tested in lab

Reason for Test : Use & Occupancy
Building Permit # : B-1A003067

Date Reported: 9/23/2019

