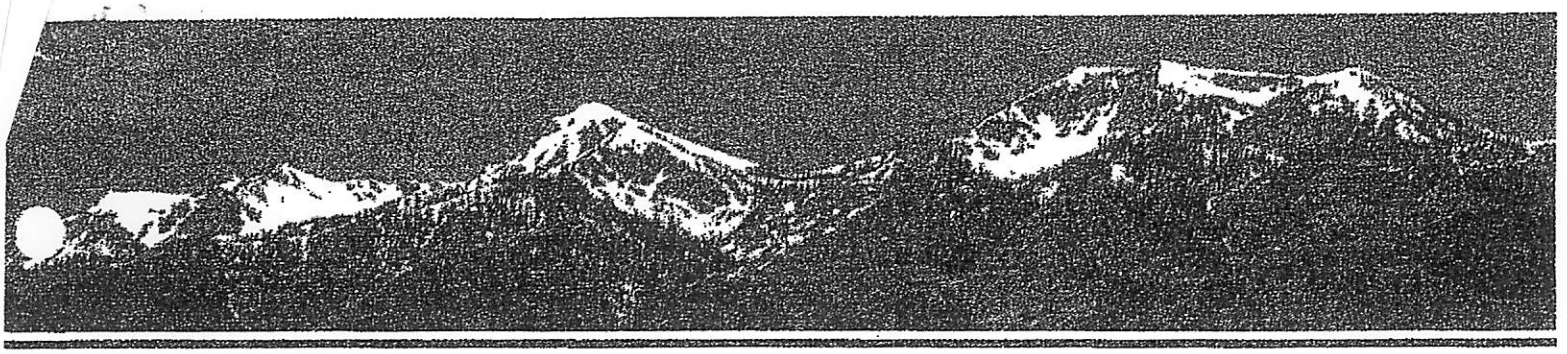
Septic for middle 20



WEBER-MORGAN HEALTH DEPARTMENT

GARY M. HOUSE, M.P.H.
Health Officer / Director

Division Directors
KAY LARRISON, Administration
CLAUDIA PRICE, Nursing & Health Promotion
LOUIS K. COOPER, Environmental Health
COLLEEN JENSON, WIC

April 10, 2014

Mary Ann Holley
1287 N. 7000 E.
Huntsville, UT 84317

Subject: Water Table Monitoring located at 800 N. 7800 E. Huntsville UT. Land serial 21-006-0036

Dear Ms. Holley:

This letter is to notify you of the results for water table monitoring conducted on your property. Monitoring was performed from December 2013 through March 25, 2014.

The easternmost group of monitoring wells (referred to by our office as monitoring wells 4N, 5E, and 6W) were documented as having water table remaining below 12 inches throughout the monitoring period. Therefore a **Mound Wastewater Disposal System** would be suitable for this area, with respect to water table. The Weber-Morgan Health Department does not assert that this property meets zoning, subdivision or any other development feasibility requirements.

Unfortunately, the ground water level for the westernmost group of monitoring wells (referred to by our office as monitoring wells 1N, 2S, and 3W) exceeded 12 inches, which in accordance with Utah Administrative Code R317-4 and Weber-Morgan Health Department Onsite Wastewater Treatment Systems Regulation eliminates the possibility of placing an onsite wastewater system in this area. The following are the pertinent portions of the R317-4 regulation;

> **R317-4.3.3(L)** If there is evidence that the ground water table ever rises to less than two feet from the bottom of the proposed absorption systems, onsite wastewater absorption systems will not be approved.

In the event of a dispute or disagreement regarding an action or decision made by the Weber-Morgan Health Department, the affected party may request a departmental conference, in accordance with the Weber-Morgan Health Department Adjudicative Hearing Procedures.

For properties that pass the water table monitoring requirements, the following requirements must be satisfied in accordance with Weber- Morgan Health Department Onsite Wastewater Treatment System Regulation R317-4, before the Weber-Morgan Health Department is able to issue a letter of feasibility for residential development on the property:

1. Approval of onsite systems in western Weber County is made in accordance with the

2. Ground Water Management Plan for Western Weber County, (adopted by the
3. Weber-Morgan Board of Health 27 August 2001). The plan addresses replacement systems and density requirements.

4. **Drinking water.** Culinary drinking water must be provided by an approved public water system or an approved private well. Properties to be served by a public water system must provide our office with a letter from the utility company, documenting that the system is capable of provided water to the property. If a private well is to be used, the well must be permitted and approved by a member of this office.

5. **Soils evaluation.** Soil exploration pits shall be made at the minimum rate of one exploration pit per lot proposed. There must be at least four feet of suitable soil below the bottom of the absorption bed, and at least three feet of suitable soil below native ground surface. Application and guidance for soils evaluation are available at the health department.

6. **Percolation tests.** Tests must be performed by a certified individual, and results must be submitted to our office. A list of certified individual is available at the health department.

Once feasibility has been demonstrated, and the following requirements have been satisfied, the health department will then be able to issue an Onsite Wastewater Disposal Permit:•

1. **System design.** Alternative systems must be designed by a Certified, level 3 onsite system professional or other qualified professional. The system must be designed in accordance with Utah State Rule, R317-4, Onsite Wastewater Systems• and Weber-Morgan Health Department Rules for Individual Wastewater Systems.

2. **Building plans.** Plans must include the property's dimensions, topographical features, easements, a floor plan (indicating the number of bedrooms and basement, if applicable), driveways and outbuildings and lot dimensions, placement of the onsite system and the location of system replacement area (must accommodate 100% replacement of the original system).

3. **Subdivision plans.** The location of all exploration pits and percolation test holes shall be clearly identified on the subdivision final plat and identified by a key number or letter designation. The results of such soil test, including stratified depths of soils and final percolation rates for each lot shall be recorded on or with the final plat.

Attached is a copy of all water table measurements and observations. Please contact this office at 801-399-7160 if you have questions.

Sincerely

Summer Day, LEHS
Environmental Health Division

2014

~~2010~~ WATER TABLE DATA

NAME; **MaryAnn Holley**

Address; **800 N 7800 E**

Land serial **210060036**

DATE				12/18/13	1/6/214	1/16/14	1/30/14	2/14/14	2/28/14	3/3/14	3/6/14	3/11/14	3/14/14	
READING #				1	2	3	4	5	6	7	8	9	10	
WELL #	Total Depth	height to grade	pipe below grade											
1N	101	35	66	38	35	33	35	32	6	4	5	8	10	fail
2S	103	34	69	41	38	39	34	32	6	6	7	9	11	fail
3W	99	34	65	32	30	29	27	25	0	0	0	4	6	fail
4N(1N)	105	34	71	64.5	62	61	60	57	26	10	0	5	8	mound
5E(2S)	108	35	73	69	67	65	64	62	32	11	1	6	9	mound
6W(3W)	108	35	73	68	65	64	60	58	30	9	1	6	8	mound

number of 1

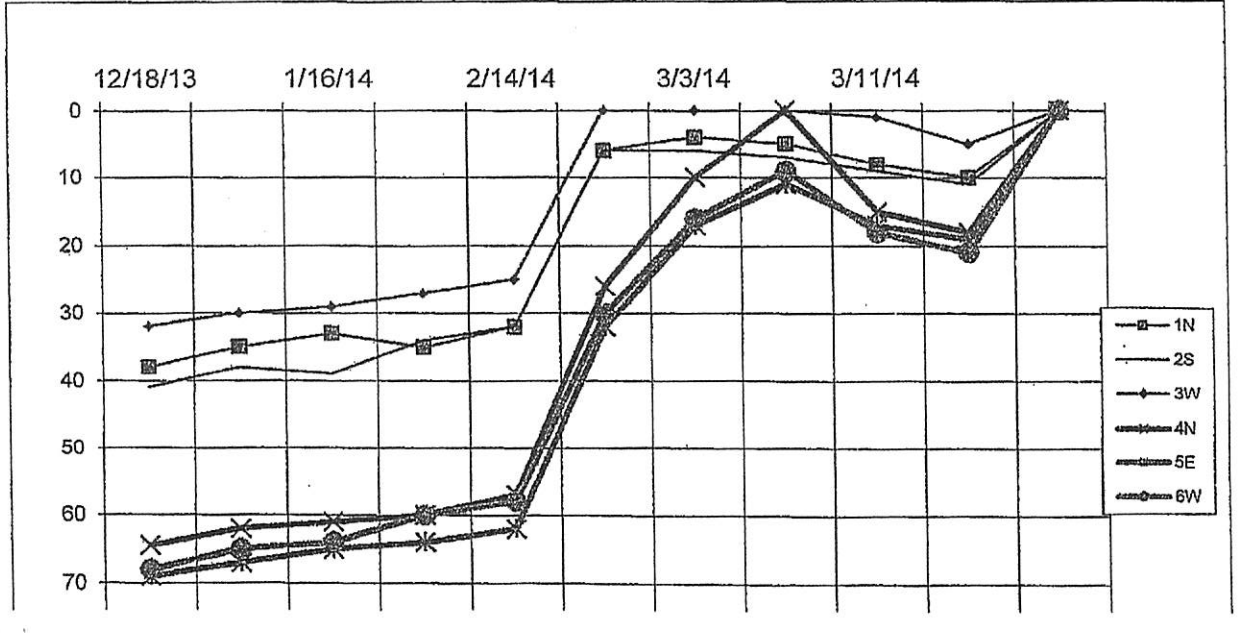
number of 3

total readings

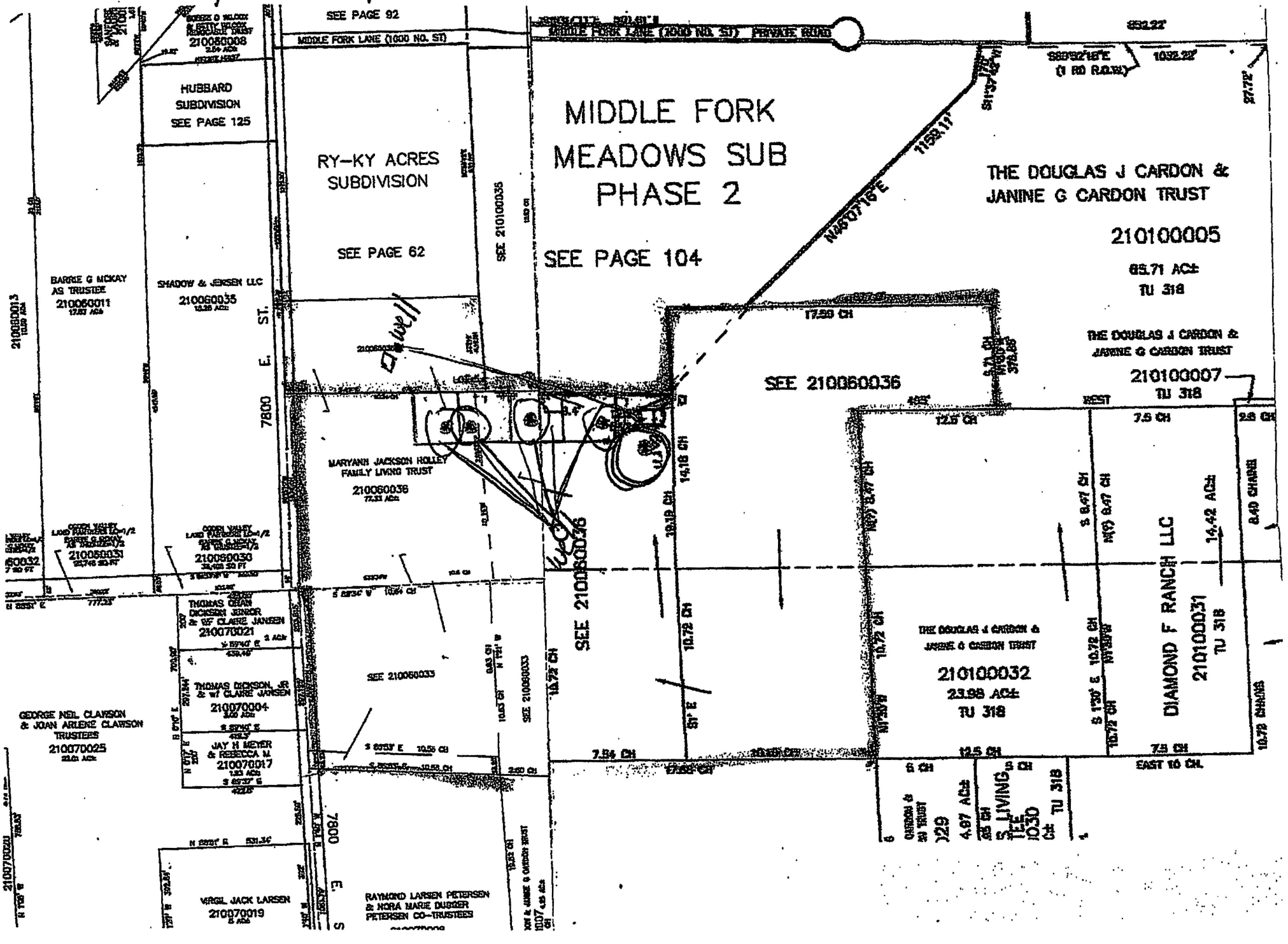
exceed 36"

exceed 24"

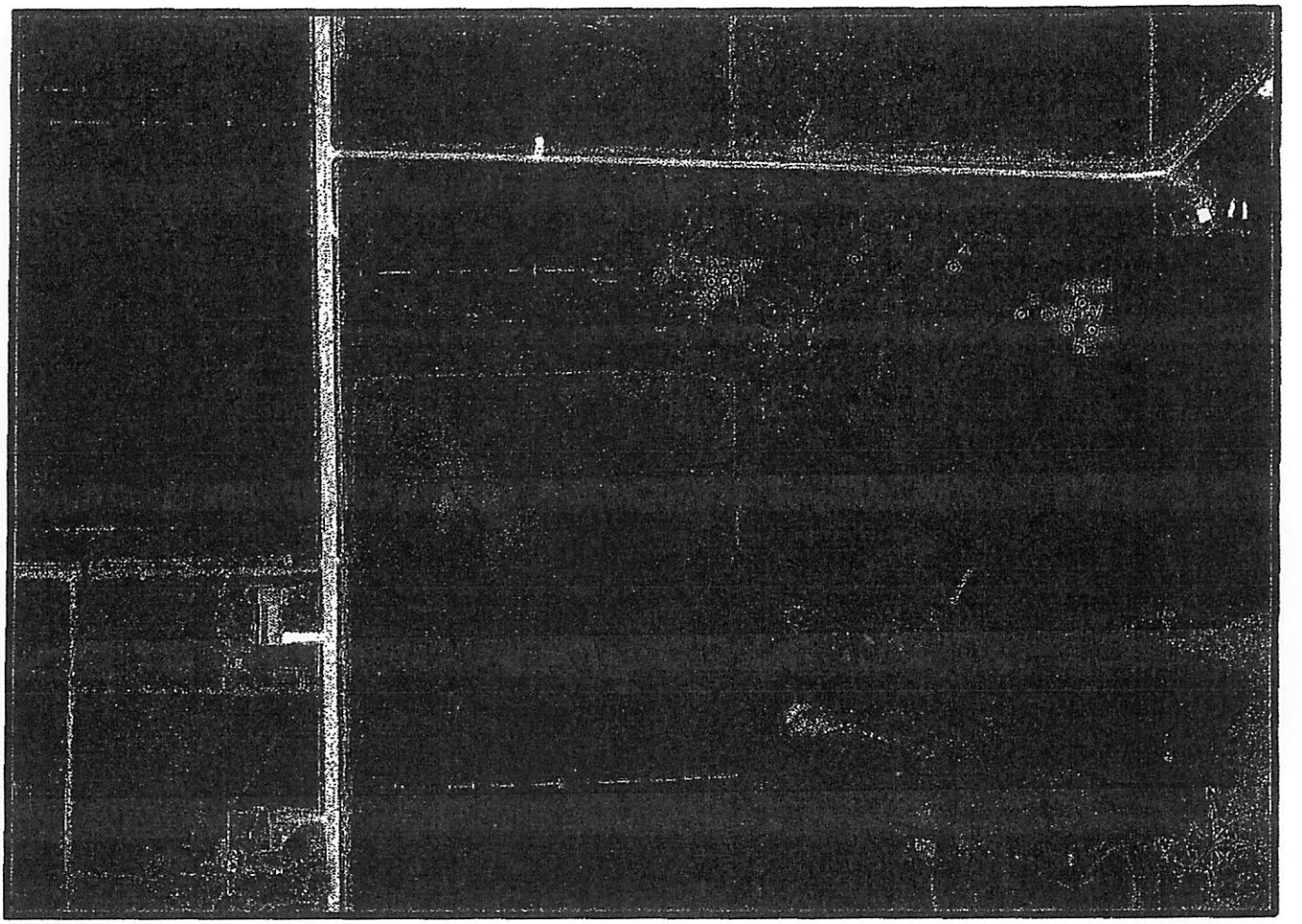
exceed 12"



MaryAnn Holley 801-645-4446



H2O monitoring Mary Ann Holley



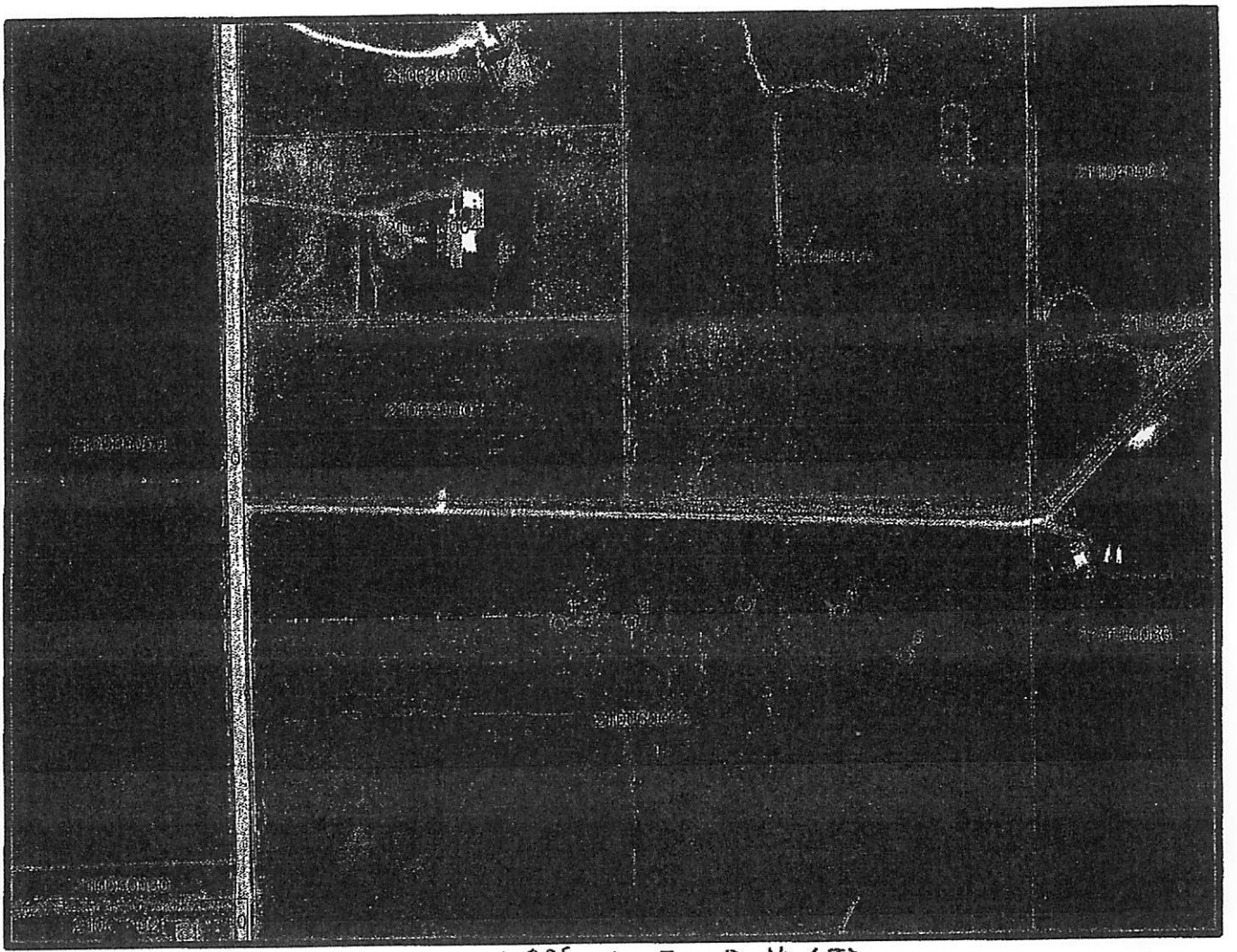
0 75 150 300 Feet

1 inch = 300 feet

pipe ID	total height (in)	pipe to grade (in)	H2O level (in) date measured	GPS UTM Zone 16N Nad 83	
1 N	101	35	28	436387 E	4569318 N
2S	103	34	28	436386 E	4569324 N
3W	99	34	33	436393 E	4569324 N
4N (East)	105	34	6.5	436574 E	4569813 N
5E (East)	108	35	4	456579 E	4569299 N
6W (East)	108	35	5	436566 E	4569300 N

Green dots – H2O wells
Blue dots – Soil TPs

Soil log 13997 MaryAnn Holley



Soil work done on 11/1/2013 SD all GPS utm Zone 19 Nad 83

0 75 150 300 Feet

1 inch = 300 feet

N W E S

TP#1 0436360E 4569320N – Groundwater @ 45"

~~Groundwater @ 45"~~

0-7" silty loam, granular structure
7-27" silty clay loam, Blocky
27-45" clay loam, massive
Perc @ 24"

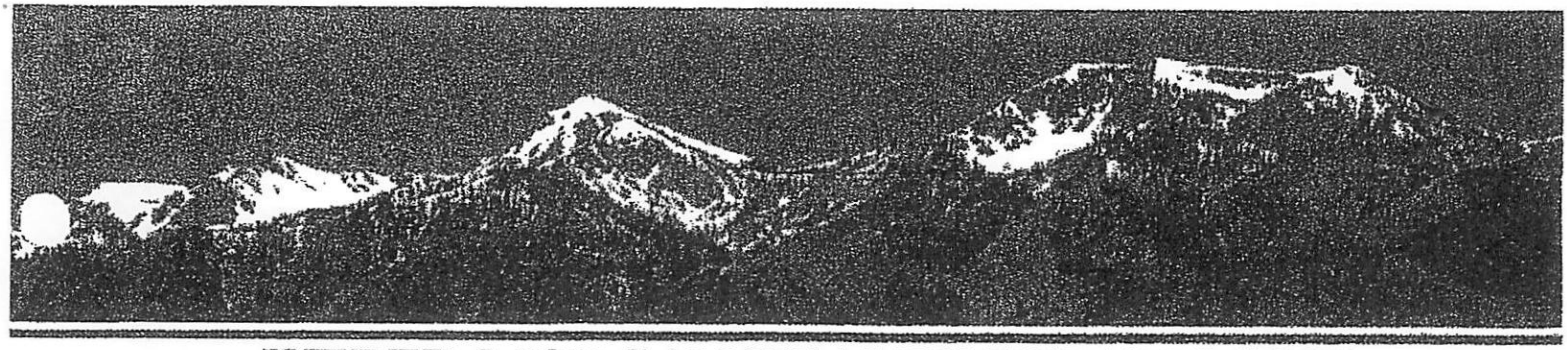
TP#2 0436398E 4569320N – Ground water @ 54"

0-5" silty loam, granular
5-44" silty clay loam, Blocky
44-54" coarse sandy loam, massive
Perc @ 24"

TP#3 0436458E 4569335N – Ground water @ 48"

0-5" silty loam, granular
[illegible] loam, blocky

Perc @ 24



WEBER-MORGAN HEALTH DEPARTMENT

GARY M. HOUSE, M.P.H.
Health Officer / Director

November 7, 2013

MaryAnn Holley
1287 N 7000 E
Huntsville, UT 84317

RE: Wastewater Site and Soils Evaluation #13997
800 N 7800 E
Parcel #21-006-0036

Dear Miss. Holley:

An evaluation of the site and soils at the above-referenced address was completed by staff of this office on November 1, 2013. The exploration pit (s) is located at the referenced GPS coordinate and datum. The soil horizons, required percolation depths, actual and anticipated maximum ground water tables have been logged as follows:

Exploration Pit #1 (UTM Zone 12 Nad 83 (12T) 436360 E 4569326 N
0-7" silty loam, granular structure
7-27" silty clay loam, blocky structure
27-45" clay loam, massive structure
Ground water was observed at 45 inches the day of the onsite evaluation

Exploration Pit #2 (UTM Zone 12 Nad 83 (12T) 436398 E 4569326 N
0-5" silty loam, granular structure
5-44" silty clay loam, blocky structure
44-54" coarse sandy loam, massive structure
Ground water was observed at 54 inches the day of the onsite evaluation

Exploration Pit #3 (UTM Zone 12 Nad 83 (12T) 436458 E 4569335 N
0-5" silty loam, granular structure
5-20" silty clay loam, blocky structure
20-31" silty clay loam, granular structure, reduced
31-48" silty clay loam, granular structure, oxidized
Ground water was observed at 48 inches the day of the onsite evaluation

Exploration Pit #4 (UTM Zone 12 Nad 83 (12 T) 436508 E 4569331 N)
0-20" silty clay loam, granular structure
20-26" silty clay loam, blocky structure
26-28" silty clay loam, granular structure, reduced
28-62" silty clay loam, granular structure, oxidized
Ground water was observed at 62 inches the day of the onsite evaluation

Exploration Pit #5 (UTM Zone 12 Nad 83 (12T) 436543 E 4569307 N)
0-6" loam, granular structure
6-30" loam, massive structure
30-66" silty loam, granular structure
Ground water observed at 66 inches the day of the onsite evaluation

Conduct the percolation tests on each lot so the bottom of the percolation test holes are at 24 inches deep from the original grade.

Percolation tests may be completed by any individual included on the enclosed list. The stabilized percolation test results are to be submitted to this office for review prior to the recommendation for further development to the appropriate planning agency or prior to the issuance of a wastewater disposal permit.

Exploration pits should be backfilled immediately upon completion of percolation testing to prevent a hazardous environment that may cause death or injury to people or animals.

Monitoring of the maximum ground water table is required in the location of the above listed exploration pits. Please complete the enclosed application for maximum ground water table monitoring and return it along with the appropriate fees. The wells should be constructed in accordance with the enclosed diagram in order to provide the most accurate water table readings possible.

If you have any further questions, contact this office at your convenience.

Sincerely,

Summer Day, LEHS
Environmental Health Division

SD/jc

S & S EXCAVATING, INC.
P.O. BOX 85
EDEN, UT 84310

PHONE: (801) 745-2309
FAX: (801) 745-6910

PERCOLATION TEST CERTIFICATE
INFORMATION REQUIRED FOR DETERMINING SOIL SUITABILITY
FOR INDIVIDUAL WASTEWATER DISPOSAL SYSTEMS

NAME: Richard & MARYANN Holley / Holley Subdivision

PROPERTY LOCATION: Huntsville UT Parcel # 21-006-0036

I CERTIFY THAT PERCOLATION TESTS HAVE BEEN CONDUCTED ON THE ABOVE PROPERTY, IN ACCORDANCE WITH REQUIREMENTS SPECIFIED IN R317-511, UTAH ADMINISTRATIVE CODE, AND THAT PERCOLATION RATES CALCULATED AS SPECIFIED BY SAID RULE ARE AS FOLLOWS.

TEST HOLE NUMBER	TEST HOLE DEPTH	SATURATION PERIOD (HRS & MIN)	SWELLING PERIOD (HRS&MIN)	INCHES DROP FINIAL 10/30 MIN. PERIOD**	FINAL STABILIZED PERC RATE*** (MIN/INCHES)
1	24"	4 hrs	18 hrs	15/16"	32.00
2	24"	4 hrs	18 hrs	1"	30.00
3	24"	4 hrs	18 hrs	1 3/4"	17.14
4	24"	4 hrs	18 hrs	1 3/16"	25.26

STATEMENT OF SOIL CONDITIONS FROM SOIL EXPLORATIONS TO A DEPTH OF 10 FEET. IN THE EVENT THAT ABSORPTION SYSTEMS WILL BE DEEPER THAN 6 FEET, SOIL EXPLORATION MUST EXTEND TO A DEPTH OF AT LEAST 4 FEET BELOW THE BOTTOM OF THE EXPOSED ABSORPTION FIELD, SEEPAGE TRENCH, SEEPAGE PIT, OR ABSORPTION BED. A DESCRIPTIVE LOG OF EACH EXPLORATION HOLE SHOULD BE GIVEN.

DATE SOIL EXPLORATION(S) WAS CONDUCTED 11-1-13 BY: UGM HD

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, THE FOREGOING INFORMATION IS CORRECT.

NAME: Matt Summers CERTIFICATION # 02745.OSPZ
ADDRESS: 137 N 2000 E Huntsville UT 84317

SIGNED: Matt Summers DATE: 5-4-14
(UNSIGNED CERTIFICATES WILL NOT BE ACCEPTED)

** TEN MIN. TIME INTERVALS BETWEEN PERC TEST MEASUREMENTS MAY BY USED ONLY FOR CERTAIN CIRCUMSTANCES. IF A 10 MIN. TIME IS USED FOR TEST, SO INDICA

*** PERCOLATION RATE IS EQUAL TO PERIOD OF TIME IN MINUTES, DIVIDED BY DISTANCE WATER DROPPED IN INCHES AND FRACTIONS THEREOF.

S & S EXCAVATING, INC
P.O. BOX 85
EDEN, UT 84310

(801) 745-2309
(801) 745-6910 FAX

RECORD SHEET FOR CONDUCTING SOIL PERCOLATION TESTS
UTAH DIVISION OF WATER QUALITY

NAME OF PROJECT OR DEVELOPMENT: Richard & MARYANN Holley DATE OF TEST: 5-4-14

LOCATION OF PROPERTY: Huntsville UT Parcel # 21-006-0036

NAME OF PERSON PERFORMING TEST: MATT Summers CERT. NUMBER: 02745-OSP2

PERCOLATION TEST # 1 TP 1

DEPTH OF HOLE: 24"	HOLE WIDTH OR DIAMETER: 10"	TIME INTERVAL FOR MEASURING WATER DROP: 30 min
PERIOD OF TIME HOLE WAS SATURATED: 4 Hrs	PERIOD OF TIME SOIL PERMITTED TO SWELL: 18 Hrs	

SUCCESSIVE PERC TESTS	INITIAL DEPTH TO WATER	START TIME	FINIAL DEPTH TO WATER	ENDING TIME	DISTANCE WATER DROPED IN INCHES	ELAPSED TIME IN MINUTES	PERCRATE IN MINUTES / INCH
1	17 1/8"	11:19	21 1/8	11:49	4"	30 min	7.50
2	17 1/8	11:50	21 3/8	12:20	4 1/8	"	7.27
3	17 1/8	12:21	18 1/2	12:51	1 3/8	"	21.82
4	17 1/8	12:52	18 1/8	1:22	1"	"	30.00
5	17 1/8	1:23	18 1/16	1:53	15/16	"	32.00
6							
7							
8							

FINIAL STABILIZED PERCOLATION RATE: 32.00 MINUTES / INCH

DESCRIPTIVE LOG OF SOIL EXPLORATION HOLE NO. TP 1

THICKNESS OF EACH STRATUM	DESCRIPTION AND TEXTURE OF EACH STRATUM
SURFACE TO _____	_____
_____ TO _____	_____
_____ TO _____	_____
_____ TO _____	_____

"WE DIG OUR VALLEY"
wedigourvalley@gmail.com

S & S EXCAVATING, INC
P.O. BOX 85
EDEN, UT 84310

(801) 745-2309
(801) 745-6910 FAX

RECORD SHEET FOR CONDUCTING SOIL PERCOLATION TESTS
UTAH DIVISION OF WATER QUALITY

NAME OF PROJECT OR DEVELOPMENT: Richard & Maryann Holley DATE OF TEST: 5-4-14

LOCATION OF PROPERTY: Huntsville UT. Parcel # 21-006-0036

NAME OF PERSON PERFORMING TEST: MATT Summers CERT. NUMBER: 02745-0SP2

PERCOLATION TEST # 1 TP 2

DEPTH OF HOLE: 24"	HOLE WIDTH OR DIAMETER: 10"	TIME INTERVAL FOR MEASURING WATER DROP: 30 min
PERIOD OF TIME HOLE WAS SATURATED: 4 Hrs	PERIOD OF TIME SOIL PERMITTED TO SWELL: 18 Hrs	

SUCCESSIVE PERC TESTS	INITIAL DEPTH TO WATER	START TIME	FINIAL DEPTH TO WATER	ENDING TIME	DISTANCE WATER DROPED IN INCHES	ELAPSED TIME IN MINUTES	PERCRATE IN MINUTES / INCH
1	17 1/8"	11:15	18 1/8	11:45	1"	30 min	30.00
2	17 1/8"	11:45	18 1/8	12:15	1"	"	30.00
3							
4							
5							
6							
7							
8							

FINIAL STABILIZED PERCOLATION RATE: 30.00 MINUTES / INCH

DESCRIPTIVE LOG OF SOIL EXPLORATION HOLE NO. TP 2

THICKNESS OF EACH STRATUM	DESCRIPTION AND TEXTURE OF EACH STRATUM
SURFACE TO _____	_____
_____ TO _____	_____
_____ TO _____	_____
_____ TO _____	_____

S & S EXCAVATING, INC
P.O. BOX 85
EDEN, UT 84310

(801) 745-2309
(801) 745-6910 FAX

RECORD SHEET FOR CONDUCTING SOIL PERCOLATION TESTS
UTAH DIVISION OF WATER QUALITY

NAME OF PROJECT OR DEVELOPMENT: Richard & MaryAnn Holley DATE OF TEST: 5-4-14

LOCATION OF PROPERTY: Huntsville UT Parcel # 21-006-0036

NAME OF PERSON PERFORMING TEST: Matt Summers CERT. NUMBER: 0274S-OSPZ

PERCOLATION TEST # 1 TP 3

DEPTH OF HOLE: 24"	HOLE WIDTH OR DIAMETER: 10"	TIME INTERVAL FOR MEASURING WATER DROP:
PERIOD OF TIME HOLE WAS SATURATED: 4 Hrs	PERIOD OF TIME SOIL PERMITTED TO SWELL: 18 Hrs	30 min

SUCCESSIVE PERC TESTS	INITIAL DEPTH TO WATER	START TIME	FINIAL DEPTH TO WATER	ENDING TIME	DISTANCE WATER DROPED IN INCHES	ELAPSED TIME IN MINUTES	PERCRATE IN MINUTES / INCH
1	17 1/4	11:12	19 3/4	11:40	2.5	30 Min	12.00
2	17 1/2	12:41	19 3/8	12:11	2 1/8"	"	14.12
3	17 1/2	12:12	19	12:40	1 3/4	30	17.14
4	17 1/2	12:40	19	1:10	1 3/4	30	17.14
5							
6							
7							
8							

FINIAL STABILIZED PERCOLATION RATE: 17.14 MINUTES / INCH

DESCRIPTIVE LOG OF SOIL EXPLORATION HOLE NO. TP 3

THICKNESS OF EACH STRATUM	DESCRIPTION AND TEXTURE OF EACH STRATUM
SURFACE TO _____	_____
_____ TO _____	_____
_____ TO _____	_____
_____ TO _____	_____

S & S EXCAVATING, INC
P.O. BOX 85
EDEN, UT 84310

(801) 745-2309
(801) 745-6910 FAX

RECORD SHEET FOR CONDUCTING SOIL PERCOLATION TESTS
UTAH DIVISION OF WATER QUALITY

NAME OF PROJECT OR DEVELOPMENT: Richard & MARYANN Holley DATE OF TEST: 5-4-14

LOCATION OF PROPERTY: Huntsville UT Parcel # 21-006-0036

NAME OF PERSON PERFORMING TEST: MATT Summers CERT. NUMBER: 02745-0SPZ

PERCOLATION TEST # TP 4

DEPTH OF HOLE: 24"	HOLE WIDTH OR DIAMETER: 10"	TIME INTERVAL FOR MEASURING WATER DROP:
PERIOD OF TIME HOLE WAS SATURATED: 4 Hrs	PERIOD OF TIME SOIL PERMITTED TO SWELL: 18 Hrs	30 min

SUCCESSIVE PERC TESTS	INITIAL DEPTH TO WATER	START TIME	FINIAL DEPTH TO WATER	ENDING TIME	DISTANCE WATER DROPED IN INCHES	ELAPSED TIME IN MINUTES	PERCRATE IN MINUTES / INCH
1	17 1/4	11:08	18 1/4"	11:38	1 1/8"	30 min	26.67
2	17 1/8	11:39	18 3/8	12:09	1 1/4"	"	24.00
3	17 1/8	12:09	18 5/16	12:39	1 3/16	"	25.26
4							
5							
6							
7							
8							

FINIAL STABILIZED PERCOLATION RATE: 25.26 MINUTES / INCH

DESCRIPTIVE LOG OF SOIL EXPLORATION HOLE NO. TP 4

THICKNESS OF EACH STRATUM	DESCRIPTION AND TEXTURE OF EACH STRATUM
SURFACE TO _____	_____
_____ TO _____	_____
_____ TO _____	_____
_____ TO _____	_____

"WE DIG OUR VALLEY"
wedigourvalley@gmail.com

WEBER-MORGAN HEALTH DEPARTMENT
WASTEWATER PROGRAM OFFICE
477 23rd Street, Ogden, Utah 84401
Phone 399-7160 Fax 399-7170

APPLICATION FOR MAXIMUM GROUND WATER TABLE MONITORING

2 groups of monitoring wells total 6 pipes

Fee Paid 924.00 yc Fee Owed _____ Log # _____
FEE: $462 – (per site: 3 monitoring wells)

Site Address 800 N. 7800 E Land Serial # 21-006-0036

Subdivision _____ No. Lots 2

Applicant MaryAnn Holley Phone 801-645-4946

Mailing Address 1287 N. 7000 E.

City Huntsville State UT Zip Code 84317

A fee of **$462** is required for each monitoring site. One monitoring site consists of three wells installed in a triangular pattern of approximately 80 feet by 30 feet. Monitoring is required at the rate of one site per three acres or one site per lot if lots are larger than three acres.

The wells should be installed in accordance with the attached diagram to assure that the recorded water table levels are indicative of the naturally occurring ground water table. While monitoring wells can be installed at any time, determination of the dates of the season of maximum ground water table in any given your can only be made after review of the water table levels recorded.

Signature MaryAnn Holley Date 11/21/13

WEBER-MORGAN HEALTH DEPARTMENT
WASTEWATER PROGRAM OFFICE
477 23RD STREET, OGDEN, UT 84401
Phone (801) 399-7160 Fax (801) 399-7170

APPLICATION FOR WASTEWATER SITE AND SOIL EVALUATION

Site Address 800 N. 7800 E. Land Serial 21-006-0036

Subdivision Holley Lot # 5

Water Supply Well Approved .

Applicant MaryAnn Holley Phone 801-645-4946

Mailing Address 1287 N. 7000 E.

City Huntsville State UT Zip 84317

Email Address mholley7@msn.com

A fee of $132 is required for each exploration pit. Exploration pits are to be dug by backhoe in the approximate location of the proposed absorption field(s) to a minimum depth of **ten** feet or **four** feet below the proposed absorption field. Exploration pits should have a vertical sidewall and be sloped for entry **not to exceed 1.5 ft horizontal to 1 ft vertical fall**. The area must also be marked with an address or other identifier if the pit in not visible from the road. Please be advised that absorption fields must be location 100 feet from wells, ditches, and water courses. Please provide keys or codes to any locked gates and insure any animals are secured.

The completed evaluation will be mailed to the applicant. The evaluation will include:
1. A plat of the exploration pit(s) with an assigned numerical code for each pit(s).
2. The required percolation depth(s) with a list of qualified testers.
3. Ground water table monitoring information, if necessary.
4. Additional site specific information as needed.

Signature MaryAnn Holley Date 11/1/2013

****

For Office Use: Soil Log # 13997 Fee Paid 660

Date Exploration Pit Available 11/4/13 Date of Evaluation

5 test pit