County of Santa Clara - Department of Environmental Health
SOIL PERCOLATION TEST RECORDED MEASUREMENTS (Electronic Version by Chris Day, R.E.H.S.)

OWNER/APPLICANT: Juan Contreras **SR #:** 862597 **PLN FILE #:** P. 1 of 1
LOCATION: 11520 Murphy Ave., San Martin APN 830-05-039 - PARCEL 1 **REHS:** Jeff Camp
CONTACT PERSON: CHRIS DAY, R.E.H.S. **PHONE:** 650-293-1045 **DATE:** 1/28/2020

HOLE #1 DEPTH: 4 ft — TIME / WATER LEVEL

START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI
2:27	2:57	14 1/8	15 1/4	30	**1 1/8**	**27**
2:58	3:28	14	15 3/8	30	**1 3/8**	**22**
3:29	3:59	14	15 3/8	30	**1 3/8**	**22**
4:00	4:30	14	15 1/8	30	**1 3/8**	**22**
4:30	5:00	14	15 1/4	30	**1 1/4**	**24**

HOLE #2 DEPTH: 4 ft — TIME / WATER LEVEL

START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI
2:30	3:00	13 7/8	19 7/8	30	6	5
3:00	3:31	13 7/8	19 1/4	31	**5 3/8**	**6**
3:32	4:02	13 5/8	18 5/8	30	**5**	**6**
4:03	4:33	13 1/8	18 1/8	30	**5**	**6**
4:35	5:05	12 7/8	18	30	**5 1/8**	**6**

HOLE #3 DEPTH: 4 ft — TIME / WATER LEVEL

START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI
2:31	3:02	14	DRY	31		
3:02	3:32	14 1/8	DRY	30		

TEST HOLE is being EXCLUDED

HOLE #4 DEPTH: 4 ft — TIME / WATER LEVEL

START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI
2:33	3:03	15 5/8	20 3/8	30	**4 3/4**	**6**
3:04	3:34	15 5/8	19 3/8	30	**3 3/4**	**8**
3:34	4:04	15 1/8	18 7/8	30	**3 3/4**	**8**
4:08	4:38	15 1/8	19	30	**3 7/8**	**8**

HOLE #5 DEPTH: 4 ft — TIME / WATER LEVEL

START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI
2:35	3:05	15 3/4	20	30	**4 1/4**	**7**
3:06	3:36	15 5/8	18 5/8	30	**3**	**10**
3:37	4:07	15 3/8	18 1/4	30	**2 7/8**	**10**
4:08	4:38	15 1/8	18 1/8	30	**3**	**10**

HOLE #6 DEPTH: 4 ft — TIME / WATER LEVEL

START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI
2:38	3:08	15 1/2	21 7/8	30	**6 3/8**	**5**
3:09	3:39	15 1/4	20 5/8	30	**5 3/8**	**6**
3:40	4:10	15 1/4	20 1/4	30	**5**	**6**
4:11	4:41	15 1/2	19 5/8	30	**4 1/8**	**7**

HOLE		1	2	3	4	5	6
Stabilized MPI	R	24	6		8	10	6
Adjusted Stabilized MPI	$R_1 = R \times 1.4$	34	8		11	14	8
Average Adjusted Stabilized MPI	$R_2 = (\Sigma R_1)/$ # Holes	15					
# Bedrooms	FOR OFFICE USE ONLY	Tank Size (Gal)				Leach Line (ft)	

County of Santa Clara - Department of Environmental Health
SOIL PERCOLATION TEST RECORDED MEASUREMENTS (Electronic Version by Chris Day, R.E.H.S.)

OWNER/APPLICANT: Juan Contreras **SR #:** 862597 **PLN FILE #:** P. 1 of 1
LOCATION: 11520 Murphy Ave., San Martin APN 830-05-039 - PARCEL 3 **REHS:** Jeff Camp
CONTACT PERSON: CHRIS DAY, R.E.H.S. **PHONE:** 650-293-1045 **DATE:** 1/3/2020

HOLE #1 DEPTH: 1 3/4 ft — TIME / WATER LEVEL

START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI
9:48	10:30	9 1/4	DRY	42		
10:31	11:01	9 1/2	DRY	30		
11:01	11:11	10	7 3/8	10	**2 5/8**	**4**
11:12	11:22	10 1/4	7 7/8	10	**2 5/8**	**4**
11:23	11:33	10 3/8	8 1/8	10	**2 1/8**	**5**
11:34	11:44	10 5/8	8 1/2	10	**2 1/8**	**5**
11:54	12:04	11 1/8	8 3/4	10	**2 3/8**	**4**
12:05	12:15	10 1/2	8 3/8	10	**2 1/8**	**5**
12:15	12:25	10 1/2	8 1/4	10	**2 1/4**	**4**
12:26	12:36	10 5/8	8 1/2	10	**2 1/8**	**5**

HOLE #2 DEPTH: 2 1/2 ft — TIME / WATER LEVEL

START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI
9:49	10:32	9 1/8	DRY	43		
10:33	11:03	9 1/2	DRY	30		
11:04	11:14	10	7 1/4	10	**2 3/4**	**4**
11:14	11:24	10	8	10	**2**	**5**
11:24	11:34	10	7 3/4	10	**2 1/4**	**4**
11:36	11:46	10	7 1/2	10	**2 1/2**	**4**
11:46	11:57	10	7 5/8	11	**2 3/8**	**5**
11:58	12:08	9 7/8	7 3/4	10	**2 1/8**	**5**
12:09	12:19	10	7 3/4	10	**2 1/4**	**4**

HOLE #3 DEPTH: 2 1/2 — TIME / WATER LEVEL

START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI
9:51	10:34	9 1/4	DRY	43		
10:34	11:04	9	DRY	30		
11:05	11:15	10	7 3/4	10	**2 1/4**	**4**
11:16	11:26	10	9 1/4	10	**2 3/4**	**4**
11:26	11:36	10 1/2	8 1/8	10	**2 3/8**	**4**
11:48	11:58	10	7 1/2	10	**2 1/2**	**4**
11:58	12:08	10 1/8	7 5/8	10	**2 1/2**	**4**

HOLE #4 DEPTH: 1 3/4 — TIME / WATER LEVEL

START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI
10:37	11:07	9 1/4	DRY	30		
11:07	11:17	9 3/4	7 3/8	10	**2 3/8**	**4**
11:17	11:27	10 1/2	7 7/8	10	**2 5/8**	**4**
11:28	11:38	10 5/8	8 1/4	10	**2 3/8**	**4**
11:38	11:48	10 3/8	8 1/4	10	**2 1/8**	**5**
11:49	11:59	10 5/8	8 5/8	10	**2**	**5**
11:59	12:09	10 5/8	8 1/2	10	**2 1/8**	**5**

HOLE #5 DEPTH: 1 3/4 — TIME / WATER LEVEL

START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI
9:55	10:38	9 1/8	DRY	43		
10:39	11:09	9 5/8	DRY	30		
11:10	11:20	10 1/4	8	10	**2 1/4**	**4**
11:20	11:30	10 3/4	8 1/2	10	**2 1/4**	**4**
11:31	11:41	10 3/8	8 1/4	10	**2 1/8**	**5**
11:41	11:51	10 7/8	9	10	**1 7/8**	**5**
11:51	12:01	10 1/4	8 3/8	10	**1 7/8**	**5**
12:02	12:12	10 1/4	8 3/8	10	**1 7/8**	**5**

HOLE #6 DEPTH: 2 1/2 — TIME / WATER LEVEL

START	FINISH	START	FINISH	Δ MIN	Δ INCH	MPI
9:56	10:40	9 3/4	DRY	44		
10:41	10:11	9 3/4	DRY	30		
10:11	11:21	9 1/4	7	10	**2 1/4**	**4**
11:22	11:32	10 3/8	7 7/8	10	**2 1/2**	**4**
11:33	11:43	11	8 1/2	10	**2 1/2**	**4**
11:43	11:53	10	7 7/8	10	**2 1/8**	**5**
11:54	12:04	10 3/4	8 1/2	10	**2 1/4**	**4**
12:05	12:15	10 1/8	8	10	**2 1/8**	**5**
12:15	12:25	10	7 7/8	10	**2 1/8**	**5**

HOLE		1	2	3	4	5	6
Stabilized MPI	R	5	5	4	5	5	5
Adjusted Stabilized MPI	$R_1 = R \times 1.4$	7	7	6	7	7	7
Average Adjusted Stabilized MPI	$R_2 = (\Sigma R_1)/$ # Holes	7					
# Bedrooms	FOR OFFICE USE ONLY	Tank Size (Gal)				Leach Line (ft)	

HIGHEST GROUNDWATER LEVEL:

Mr. Juan Contreras
January 31, 2020
Page 4

12.2 feet or an equivalent elevation of 249.9 feet, and for the downgradient well it was 17.4 feet, equivalent to an elevation of 231.8 feet.

Regional ground-water elevation contour lines are generally at a right angle to the axis of southern Santa Clara Valley in the vicinity of the project site and exhibit a decreasing gradient from north to south, generally following the configuration of the surface topography (California Department of Water Resources, 1981). Based on the shallowest depth to the ground water level in the two monitoring wells in February 2017, a ground-water gradient reflecting this condition is thus established between the upgradient well, the project site, and the downgradient well. In this manner, with a surface elevation of 256.0 feet in the proposed dispersal areas in Parcel 1 and Parcel 3, the elevation of the highest anticipated ground-water level is 244.0 feet, equivalent to a depth of 12.0 feet (256.0 – 244.0).

CONCLUSIONS

As discussed in the previous section on subsurface conditions, there was no evidence from the deeper soil units exposed in the test pits that the depth to ground water had ever been any less than 12 feet at the two proposed OWTS dispersal areas. Considering this condition and the historic shallow ground-water elevation measurements from the two monitoring wells that established a ground water gradient through the site in February 2017, it is our opinion that for design purposes 12 feet should be used as the shallowest anticipated depth to the ground-water table during an extended period of wet weather.

LIMITATIONS

Geoconsultants, Inc. has provided its findings, recommendations, specifications, and professional advice after preparing such information in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the field of hydrogeology. This acknowledgment is in lieu of all warranties either express or implied.

Geoconsultants, Inc. does not guarantee nor warrant that a satisfactory septic disposal system can be developed at the subject site or warrant or guarantee approval of the project by regulatory authorities.

AARON'S SEPTIC TANK SERVICE
P.O. Box 84668
San Jose, CA 95154
Phone (408) 371-8350
(650) 967-0510
Fax (408) 559-6486

SEPTIC TANK PUMPING AND INSPECTION REPORT

Pumper Name: Ryan Ealing Inspection Date: 2/8/2020
Job Location: 11520 Murphy Ave Job City: San Martin
Owner: Juan Contreras
Requested By:
Reason For Inspection: Maintenance X Haulaway System Refinance
Sale Inspection Permit Other
Property Use: Home: X Other Occupied? Yes X No

SEPTIC TANK SIZE: 1000 GALLONS REMOVED: 1000 DISPOSAL LOCATION: PA
Type: REDWOOD CONCRETE X FIBERGLASS PLASTIC OTHER

Condition of Tank:

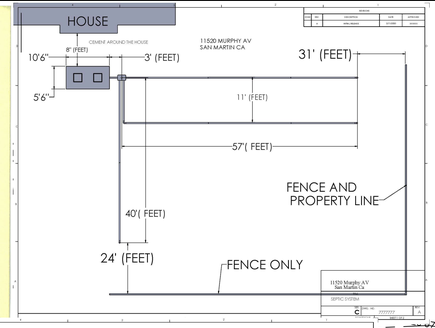
	Good	Fair	Poor	Repairs Recommended
Septic ells/tees	X			
Tank top and/or lids	X			
Sides/Bottom of tank	X			
Baffles	X			

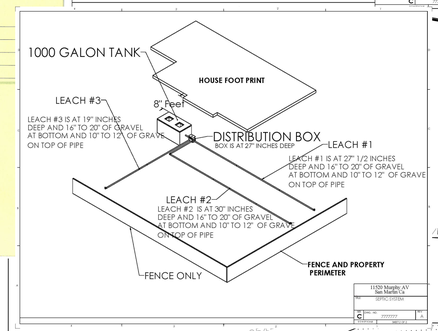
Operational Level: High Low Normal X Date last pumped: 2019

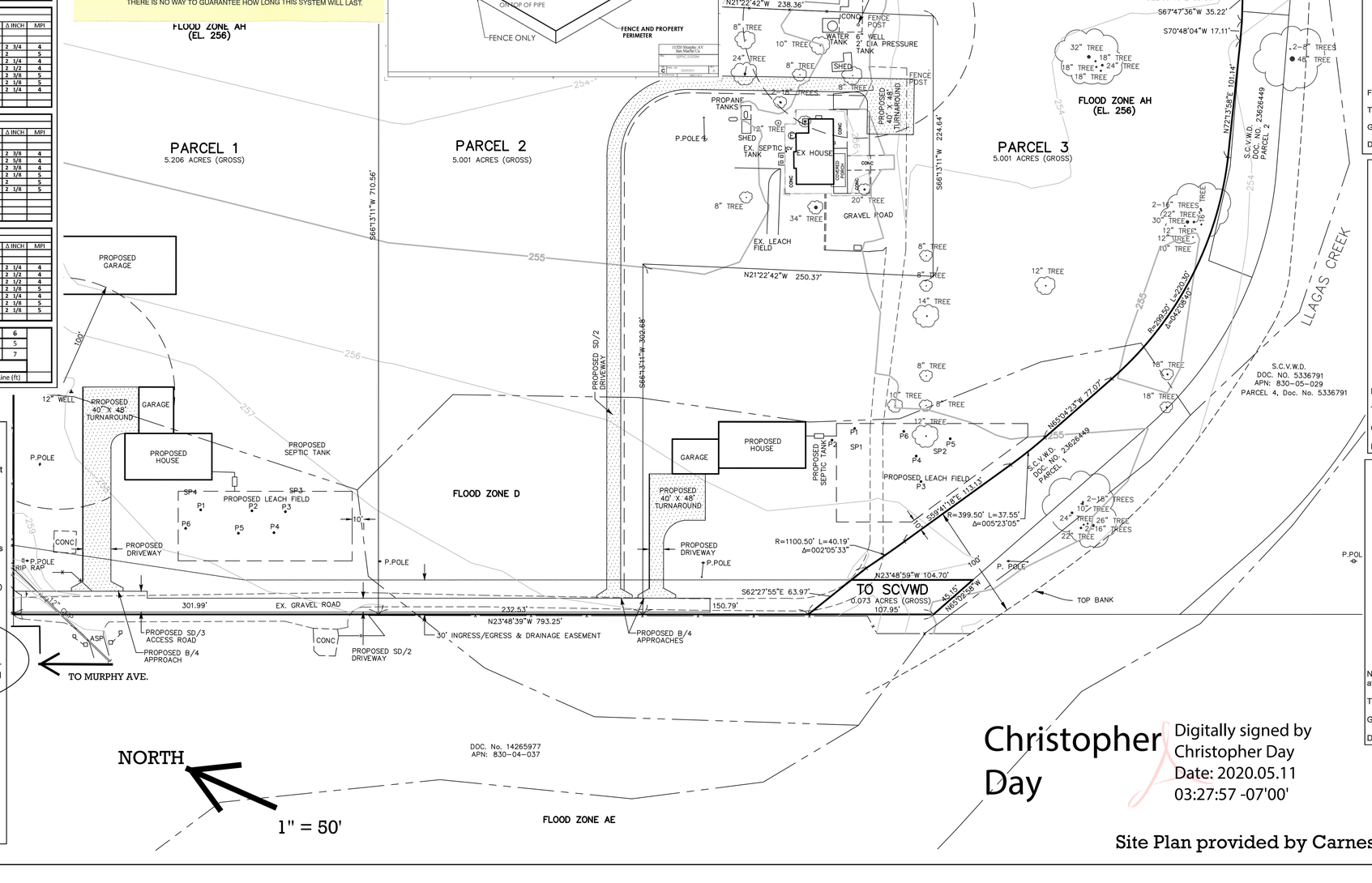
LEACHING SYSTEM
Present or past high level in tank ☐ Yes ☒ No
Liquid flowback while pumping? ☐ Yes ☒ No
Signs of Surfacing Effluent? ☐ Yes ☒ No
OTHER SYSTEM COMPONENT / NOTES: Performed a 30 minute water test on drainfield. Water did not leak within any problems at this time.

SYSTEM LOCATION:

THERE IS NO WAY TO GUARANTEE HOW LONG THIS SYSTEM WILL LAST.







Christopher Day
Digitally signed by Christopher Day
Date: 2020.05.11 03:27:57 -07'00'

Site Plan provided by Carnes & Ekparian, Inc.

LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- TIE LINE
- EASEMENT
- X EXISTING FENCE
- SS SAN SEWER LINE
- SD STORM DRAIN LINE
- FLOW LINE
- E ELECTRIC SERVICE
- GAS SERVICE
- WATER VALVE
- FIRE HYDRANT
- POWER POLE
- STREET LIGHT
- AREA LIGHT

ABBREVIATIONS

DI	DRAIN INLET
CB	CATCH BASIN
SSCO	SANITARY SEWER CLEANOUT
WM	WATER METER
WV	WATER VALVE
FH	FIRE HYDRANT
C&G	CURB & GUTTER
AC	AIR CONDITIONER
D	DRAIN
ASP	ASPHALT
ICV	IRRIGATION CONTROL VALVE
EB	ELECTRIC BOX
PE	POOL EQUIPMENT
SDMH	STORM DRAIN MANHOLE
SSMH	SANITARY SEWER MAN HOLE
P1	PERCOLATION PIPE
SP1	SOIL PROFILE

NOTES

(1) A CURRENT TITLE REPORT FOR THE SUBJECT PROPERTY HAS NOT BEEN EXAMINED BY GARY D. CARNES, LAND SURVEYOR, EASEMENTS OF RECORD MAY EXIST THAT ARE NOT SHOWN ON THIS MAP.

(2) TREE SPECIES AND DRIP LINES ARE APPROXIMATE AND SHOULD BE VERIFIED BY A CERTIFIED ARBORIST.

(3) ALL DISTANCES & DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.

(4) THE UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE APPROXIMATE AND BASED ON EVIDENCE AT THE SURFACE.

(5) BUILDING DIMENSIONS SHOWN ON THIS MAP ARE MEASURED FROM THE TRIM, STUCCO OR SIDING AT RIGHT ANGLES TO THE PROPERTY LINES.

TEST PIT LOGS by Jeremy Wire of Geoconsultants, Inc.

TEST PIT LOG
TP-1

Depth (feet)	Description
0 – 3.0	Clay, silty, slightly sandy, damp, with large-diameter tree roots, brown (CL)
3.0 – 5.0	Gravel, sandy, with some clay matrix; damp, brown (GC-GM)
5.0 – 12.0	Gravel, with increasing sand; containing cobbles starting at 7.0 feet, loose, caving into excavation, moist, brown (GW)
12.0 – 13.0	Gravel, sandy, with some clay matrix, moist to wet, tan (GC-GM)

Free ground water noted at depth of 13.0 feet

Total depth of excavation 13.0 feet

GPS coordinates: N 37° 03.899', W 121° 35.367'

December 31, 2019

TEST PIT LOG
TP-2

Depth (feet)	Description
0 – 2.5	Clay, silty, slightly sandy with occasional gravel, damp, brown (CL)
2.5 – 13.0	Gravel, sandy; containing cobbles starting at about 7.0 feet, loose, caving into excavation, moist to wet at 13.0 feet, brown (GW)

Free ground water noted at depth of 13.0 feet

Total depth of excavation 13.0 feet

GPS coordinates: N 37° 03.884', W 121° 35.415'

December 31, 2019

TEST PIT LOG
TP-3

Depth (feet)	Description
0 – 3.0	Clay, silty, stiff, with occasional gravel, damp, brown (CL)
3.0 – 5.0	Clay, gravelly, grading to clayey gravel, damp, brown (GC)
5.0 – 15.0	Gravel, sandy, less clay matrix than above, with occasional cobbles, damp to moist; wet with seepage at 13.0 feet, brown (GC-GM)

Free ground water noted at depth of 13.0 feet

Total depth of excavation 15.0 feet

GPS coordinates: N 37° 03.970', W 121° 35.410'

December 31, 2019

TEST PIT LOG
TP-4

Depth (feet)	Description
0 – 2.0	Clay, silty, stiff, with occasional gravel, damp, brown (CL)
2.0 – 4.0	Clay, gravelly, grading to clayey gravel, damp, brown (GC)
4.0 – 14.5	Gravel, sandy, clayey, less clay matrix than above, with occasional cobbles, damp to moist at depth, brown (GC-GM)

No free ground water noted in open excavation after 20 minutes

Total depth of excavation 14.5 feet

GPS coordinates: N 37° 03.984', W 121° 35.415'

December 31, 2019

ORIG: 4/26/2020
REV 1: 5/11/2020
REV 2:

PLAN BY: Christopher Day, R.E.H.S.
P.O. Box 26, Redwood City, CA 94064
Tel. 650-293-1045
Email: christopherday@aol.com

OWNER:
Juan Contreras
Tel. 650-556-3767
Email: jlcp3452@gmail.com

11520 Murphy Ave., San Martin, CA 95046
APN 830-05-039

SITE PLAN

SEPTIC PLAN for SUBDIVISION
(For Proposed Subdivision into 3 Lots)

OWTS 1