MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF DRINKING WATER AND MUNICIPAL ASSISTANCE

SUBDIVISION AND CONDOMINIUM SITE REPORT

This information is required under authority of 1978 PA 368, 1978 PA 59, and 1967 PA 288.
Review cannot be completed without providing this information.

1. SUB ☐ CONDO ☒	2. NAME OF PROPOSED SUB/CONDO	3. COUNTY	4. SECTION & TOWNSHIP
	Buena Vista	Kent	Section 26, Vergennes Township

5. PROPRIETOR	6. ADDRESS
Bruce Langlois	13315 Beckwith Dr., Lowell, MI 49331

7. INTENDED USE:
Single Family ☒ Two Family ☐ Multiple Family ☐ Commercial ☐ Industrial ☐ Other ☐ _____

8. ADJACENT PROPERTY:
(a) Same Ownership? Yes ☐ No ☒ (b) Public Ownership? Yes ☐ No ☒
(c) Developed? Yes ☒ No ☐ If yes, type of development Single Family Residential

9. NUMBER OF ACRES	10. NUMBER OF LOTS/UNITS	11. MINIMUM LOT/UNIT AREA (Ft^2)
28.7	14	0.6 acre = 26,136 ft^2

12. WATER SUPPLY

Distance to nearest existing public water system 7,950 feet

Is a public water system, all or in part, intended to be utilized for this development? Yes ☐ No ☒

If yes, type: ☐ Municipal: Name_____ or ☐ Community System Serving Proposal

☒ This development will utilize individual wells. Attach information to support suitability of the water supply such as well record data, water sample results, yield or performance testing data, and other hydrogeological information. (See Rules 404 thru 415)

COMMENTS: Water well and pump record is attached.

13. WASTEWATER TREATMENT AND DISPOSAL

Distance to nearest existing public sewer system 8,670 feet

Is a public sewer system, all or in part, intended to be utilized for this development? Yes ☐ No ☒

If yes, type: ☐ Municipal: Name_____ or ☐ Community System Serving Proposal

☒ This development will utilize individual on-site systems. Attach or record on the preliminary plat, a report of soil profile evaluations to a minimum of six (6) feet (using the USDA classification system). The report shall include soil horizon depths, soil texture, soil structure, soil mottling, and depth to high groundwater elevation or bedrock. (See Rules 416, 420, and 421)

COMMENTS: Soil information is attached.

14. ENGINEER/SURVEYOR COMPLETING SITE REPORT FORM

Name: Kyle Visker, PE LICENSE #: 57289

Firm: Land & Resource Engineering

Address: 2121 3 Mile Rd NW

Walker, MI 49544

Engineer/Surveyor statement of site suitability for on-site water supply and/or on-site sewage treatment and disposal. See Rule 403(g). Include statement below or attach.

On-site sewage treatment and disposal is suitable for the proposed Buena Vista Condominium based on acceptable soils found in test pits dug for each lot. On-site water supply is suitable for the proposed Buena Vista Condominium based on test well results meeting the required 4 hour pump test at 10 gallons / minute and acceptable water quality.

Signed: KV Date: 1/31/2020

The Department of Environmental Quality, Onsite Wastewater Program, or authorized local health department, receives 3 copies of the site report if a public water or public sewerage system is not available.

DEQ

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER AND MUNICIPAL ASSISTANCE DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 of 1978 PA 368, as amended. Failure to comply is a misdemeanor.

TAX NUMBER

PERMIT NUMBER

LATITUDE 42.97167 | LONGITUDE 85.35006 | COUNTY Kent | TOWNSHIP Vergennes

DISTANCE & DIRECTION FROM ROAD INTERSECTION
1/4 mile N of Bailey
200 yds E off Lincoln Lake off Triple Oak

WELL STREET ADDRESS, CITY/ZIP

WSSN	SOURCE ID/ WELL NO.	SECTION	TOWN NO.	RANGE NO.
		27	7N	9W

WELL OWNER NAME: Bruce Langlois
ADDRESS: 12813 Burroughs, NE
CITY/ZIP: Lowell
Owner Address Same As Well Address? ☑ Yes ☐ No

DRILLING METHOD: ☑ Rotary ☐ Cable Tool ☐ Hollow Rod ☐ Jetted ☐ Auger/Bored ☐ Other ☐ Rotary w/Casing Hammer ☐ Cable Tool w/Casing Hammer

PUMP: ☒ Not Installed ☐ Pump Installation Only
Manufacturer
Pump Type ☐ Submersible ☐ Jet ☐ Other
Model Number HP Volts
Pump Capacity G.P.M. ☐ Drawdown Seal Installed
Length of Drop Pipe ft. Diameter of Drop Pipe in.

WELL DEPTH: 222 ft.

WELL USE: ☐ Household ☐ Type I Public ☐ Heat Pump-Supply ☐ Irrigation ☐ Type II Public ☐ Heat Pump-Return ☐ Industrial ☐ Type III Public ☐ Other ☑ Test Well

DATE COMPLETED: 01 | 21 | 20

WELL TYPE: ☑ New ☐ Replacement ☐ Dry Hole ☐ Boring (Uncased) ☐ Deepening

PRESSURE TANK: ☒ Not Installed ☐ Buried ☐ Diaphragm/Bladder ☐ Galvanized
Type
Manufacturer Model
Total Tank Capacity gal. ☐ Pressure Relief Valve Installed

CASING: Type ☑ Plastic ☐ Steel-Black ☐ Steel-Galvanized ☐ Other
Joint ☑ Glued ☐ Spline ☐ Welded ☐ Threaded
Diameter 5 in. to 180 ft. depth 21 SDR
5 in. to 217 ft. depth 17 SDR
Height Above Grade ft. Fittings ☐ Drive Shoe ☐ Shale Packer

BOREHOLE: Diameter 8 3/4 in. to 222 ft. depth
in. to ft. depth

STATIC WATER LEVEL: 154.11 ft. Below Grade ☐ Flowing
Flow Rate Before Control G.P.M.

WELL YIELD TEST: Pumping Level 157.63 after 4 hrs. pumping at 13 G.P.M.
☐ Air ☐ Bailer ☐ Plunger ☑ Test Pump

SCREEN: ☐ Not Installed ☑ Filter-Packed Diameter 5 in.
Material ☑ Stainless Steel ☐ Plastic ☐ Other
Slot 20 Length 5 ft. From 217 ft. To 222 ft.
Slot Length ft. From ft. To ft.
INSTALLATION ☐ Telescoped ☑ Attached
FITTINGS ☐ Neoprene Packer ☐ Bremer Check
BLANK ☐ Above ft. Other

WELL GROUTED: From 0 ft. To 214 ft.
☑ Bentonite Slurry ☐ Bentonite Dry Granular ☐ Neat Cement ☐ Neat Cement with Bentonite ☐ Concrete No. of Bags 22
Additives ☐ Lost Circulation Material ☐ Accelerator ☐ Retarder
METHOD ☑ Grout pipe outside casing ☐ Driven dry grout ☐ Grout pipe inside casing ☐ Displacement plug

WELLHEAD COMPLETION ☐ Pitless Adapter ☑ 12 in. Above Grade ☐ Basement Offset ☐ Well House

NEAREST SOURCE OF POSSIBLE CONTAMINATION
Type NONE Distance ft. Direction
Type Distance ft Direction

ABANDONED WELL PLUGGED ☐ Yes ☐ No
Latitude Longitude
Casing Diameter in. Depth ft
PLUGGING MATERIAL ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/ Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags Casing Removed? ☐ Yes ☐ No

REMARKS

ATTENTION WELL OWNER: FILE WITH DEED

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum
Clay	12	12
clay, Sand, + Stones	168	180
clay	20	210
Sand + Stones	22	222

USE SECOND SHEET IF NECESSARY

DRILLING MACHINE OPERATOR ☑ Employee ☐ Subcontractor
Name Dave

PUMP INSTALLER (If different from drilling machine operator.)
Name

WATER WELL CONTRACTOR'S CERTIFICATION:
This well and/or pump installation was performed under my registration.
Registered Business Name Dyer | Registration No. 2227
Address 7300 Mill Ct
City/State/Zip Lansing MI
Signature of Registered Contractor | Date 01/21/20

DEQ Environmental Assistance Center
Telephone: 1-800-662-9278

www.michigan.gov/deq
EQP-2017 (Rev. 05/2018)

WELL OWNER COPY

Prein&Newhof
Engineers • Surveyors • Environmental • Laboratory

Analytical Report

(DW)

WO#: 2001652
Date Reported: 1/21/2020

CLIENT:	Dyer Well Drilling	**Collection Date**	1/16/2020 1:25:00 PM
Project:	Buena Vista	**Received Date:**	1/16/2020 2:20:00 PM
Lab ID:	2001652-01	**Matrix:**	DRINKING WATER
Client Sample ID:	Buena Vista, Lowell	**Sampled By:**	Mike
Location:			

Analyses	Result	RL	Qual	Units	MCL	Date Analyzed
METALS, DRINKING WATER				**EPA 200.7**		Analyst: **DV**
Iron	1.69	0.0400		mg/L		1/20/2020 12:30:00 PM
Sodium	13.6	0.100		mg/L		1/20/2020 12:30:00 PM
ARSENIC, DRINKING WATER				**EPA 200.8**		Analyst: **KS**
Arsenic	< 0.00100	0.00100		mg/L	0.0100	1/20/2020 6:27:48 PM
COLIFORM BY PRESENCE-ABSENCE				**READYCULT**		Analyst: **PS**
Coliform, Total	Absent			P/A		1/16/2020 3:00:00 PM
E. coli	Absent			P/A		1/16/2020 3:00:00 PM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		Analyst: **KS**
Fluoride	0.290	0.100		mg/L	4.00	1/16/2020 7:15:00 PM
Chloride	3.04	0.200		mg/L		1/16/2020 7:15:00 PM
Nitrite	< 0.100	0.100		mg/L	1.00	1/16/2020 7:15:00 PM
Nitrate	< 0.100	0.100		mg/L	10.0	1/16/2020 7:15:00 PM
Sulfate	27.5	0.500		mg/L		1/16/2020 7:15:00 PM
Total Nitrate & Nitrite	< 0.100	0.100		mg/L	10.0	1/16/2020 7:15:00 PM
HARDNESS, TOTAL				**EPA 130.1**		Analyst: **AB**
Hardness (As CaCO3)	273	10.0		mg/L CaCO3		1/17/2020 11:31:57 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Dilution was required
- J Analyte detected below quantitation limits
- PL Permit Limit
- < Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Original

3260 Evergreen Drive, NE Grand Rapids, MI 49525 t.616-364-7600 f. 616-364-4222 www.preinnewhof.com

KENT COUNTY HEALTH DEPARTMENT

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH

ENVIRONMENTAL HEALTH DIVISION
700 Fuller Avenue N.E.
Grand Rapids, Michigan 49503
Phone: (616) 632-6900
FAX: (616) 632-6892
Email: KCHDmail@kentcountymi.gov
www.accesskent.com/Health

Adam London, RS, MPA
ADMINISTRATIVE HEALTH OFFICER

1:20 pm

4 HOUR PUMP TEST DATA SHEET

DATA FOR PUMPED WELL

Date of pump test: 1/16/20 Pumping rate: 10 GPM. Rest period: _____ hours
Static water level: 154.11 feet. Distance from pumped well to discharge: 15 feet.
Water level measured by: air gauge, (electrical meter), other _____
Pump test conducted by: DAVE

ADJACENT WELL/WELLS

Distance to nearest well operating during test: 350 feet.
Was nearest well pumped at a constant rate or shut down during pump test? Yes _____ No _____

PUMPED WELL				
TIME	ELAPSED TIME IN MINUTES	DEPTH TO WATER IN FEET	STATIC WATER IN FEET	REMARKS
HOUR 1 (0 TO 15 MIN)	AT 0 MINUTE	154.11		
	1 MINUTE	156.92		
	2 MINUTES	157.15		
	3 MINUTES	157.21		
	4 MINUTES	157.29		
	5 MINUTES	157.30		
	6 MINUTES	157.30		
	7 MINUTES	157.34		
	8 MINUTES	157.35		
	9 MINUTES	157.37		
	10 MINUTES	157.37		
	11 MINUTES	157.38		
	12 MINUTES	157.40		
	13 MINUTES	157.40		
	14 MINUTES	157.42		
	15 MINUTES	157.42		

Development Name: _____

Address: _____ Township: _____

Pump Model # 10FV1P4-2W230

CASING 12" ABOVE GRADE. ALL MEASUREMENTS TAKEN AT TOP OF CASING.

4 HOUR PUMP TEST DATA SHEET

PUMPED WELL				
TIME	ELAPSED TIME IN MINUTES	DEPTH TO WATER IN FEET	STATIC WATER IN FEET	REMARKS
HOUR 1 (15 TO 60 MIN.)	AT 15 MINUTES	157.42		
	20 MINUTES	157.46		
	25 MINUTES	157.48		
	30 MINUTES	157.5		
	35 MINUTES	157.53		
	40 MINUTES	157.52		
	45 MINUTES	157.57		
	50 MINUTES	157.60		
	55 MINUTES	157.61		
	60 MINUTES	157.63		
HOUR 2 (60 TO 120 MIN.)	AT 60 MINUTES	157.63		
	90 MINUTES	157.63		
	120 MINUTES	157.63		
HOUR 3 (120 TO 180 MIN.)	AT 120 MINUTES			
	150 MINUTES			
	180 MINUTES			
HOUR 4 (180 TO 240 MIN.)	AT 180 MINUTES			
	210 MINUTES	✓		
	240 MINUTES			

ADDITIONAL COMMENTS:

WELL RECOVERY DATA SHEET

TIME	ELAPSED TIME IN MINUTES	DEPTH TO WATER IN FEET	STATIC WATER IN FEET	REMARKS
HOUR 1 (0 TO 15 MIN.)	AT 0 MINUTE			
	1 MINUTE	153.58		
	2 MINUTES	154.11		
	3 MINUTES			
	4 MINUTES			
	5 MINUTES			
	6 MINUTES			
	7 MINUTES			
	8 MINUTES			
	9 MINUTES			
	10 MINUTES			
	11 MINUTES			
	12 MINUTES			
	13 MINUTES			
	14 MINUTES			
	15 MINUTES			
HOUR 1 (15 TO 60 MIN.)	AT 15 MINUTES			
	20 MINUTES			
	25 MINUTES			
	30 MINUTES			
	35 MINUTES			
	40 MINUTES			
	45 MINUTES			
	50 MINUTES			
	55 MINUTES			
	60 MINUTES			
HOUR 2 (60 TO 120 MIN.)	AT 60 MINUTES			
	90 MINUTES			
	120 MINUTES			
HOUR 3 (120 TO 180 MIN.)	AT 120 MINUTES			
	150 MINUTES			
	180 MINUTES			
HOUR 4 (180 TO 240 MIN.)	AT 180 MINUTES			
	210 MINUTES			
	240 MINUTES			