



PO BOX 299
LOVELAND, CO 80539

OFFICE 970.667.2680
FAX 970.667.0092

November 14, 2023

Nikie Ganon
Regulatory Specialist
Colorado Division of Reclamation Mining and Safety
1313 Sherman Street, Room 215
Denver, CO 80203
Nikie.gagnon@state.co.us

RE: Larimer Pit M1974-069, AM03

Dear Nikie,

This is a formal request to reduce the frequency of well readings taken from the three monitoring wells placed adjacent to the current mining area, Cell 21, located within M1974-069. Included with AM03 for the current permitted area is an approved Groundwater Level Monitoring Plan for Pit/Cell 21, prepared by Bishop and Brogden Associates., dated October 30, 2015.

Attached is a copy of the monthly readings that measure groundwater depth of the three monitoring wells. The first well readings were documented on March 30, 2015, and the latest monthly reading was taken on November 10, 2023. Additional dates to note, as documented, are as follows:

1. Dewatering of Cell 20, directly adjacent to and north of Cell 21 began in July of 2015.
2. Mining of Cell 20 was complete and dewatering ceased in August of 2019.
3. Mining Cell 20 was filled with groundwater on December 7, 2019.
4. Mining of Cell 21 began in March of 2020, which included the start of dewatering at the north east corner of this mining cell.
5. The compacted liner was installed along the east end of Cell 21 in July of 2021.

At this time, LRM believes that adequate baseline data for all three monitoring wells has been established and that quarterly monitoring will now be adequate for identifying any significant changes in water levels or trends that may impact neighboring properties. In addition, the original water level monitoring plan did not identify any existing water supply wells or structures that would be impacted by this operation.

We believe that current fluctuations in water levels support the opinions in the original monitoring plan and are the results of natural hydrology including precipitation events and changes that probably result from land uses including irrigation and irrigation return flows.



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Loveland Ready-Mix Concrete, Inc.
M1974-069

November 14, 2023

If you have any questions or require additional information, please advise.

Thank you,

Stephanie Fancher-English
Loveland Ready Mix Concrete

Attachments: Groundwater monitoring data and graphs
Bishop Brogden Associates, Recommended Groundwater Level
Monitoring Plan for the Larimer Pit 21, October 30, 2015

Larimer Pits M 1974-068

Monitoring Wells at Big Thompson Farms Additions

GROUNDWATER OBSERVATION DATA			
Big Thompson Farms - Well Number 1 (NE)			
Date	Depth Measured (PVC rim to water) (ft.)	Depth Below Original Ground (ft)	Notes
01/08/19	16.15	12.9	
02/07/19	16.18	12.93	
04/09/19	16.26	13.01	bottom
05/09/19	16.26	13.01	
06/11/19	16.26	13.01	bottom
07/19/19	15	11.75	
08/20/19	14.97	11.72	quit dewatering 20; 8/5/2019
09/19/19	15.05	11.8	
10/17/19	14.95	11.7	
11/14/19	14.7	11.45	
12/17/19	14.15	10.9	cell 20 full 12/5
1/14/2020	13.6	10.35	
2/12/2020	12.54	9.29	started clearing cell 21
3/10/2020	20.9	12.65	John extended pipe (grade fill)
4/26/2020	21.26	13.01	bottom
5/12/2020	21.26	13.01	
6/8/2020	21.26	13.01	
7/10/2020	21.26	13.01	
8/14/2020	21.26	13.01	
9/17/2020	21.26	13.01	
10/20/2020	21.26	13.01	
11/16/2020	21.26	13.01	
12/10/2020	21.26	13.01	
1/14/2021	21.26	13.01	
2/17/2021	21.26	13.01	
3/12/2021	21.26	13.01	
4/28/2021			Landscaper knocked over
5/19/2021			
6/7/2021	25.7	12.95	
7/16/2021	25.7	12.95	East Wall liner installed
8/19/2021	25.6	12.85	
9/24/2021	25.87	13.12	
10/16/2021	26.1	13.35	
11/10/2021	26.3	13.55	
12/9/2021	26.43	13.68	
1/11/2022	26.55	13.8	
2/16/2022	26.59	13.84	
3/22/2022	26.6	13.85	
4/18/2022	26.6	13.85	

Larimer Pits M 1974-068

Monitoring Wells at Big Thompson Farms Additions

GROUNDWATER OBSERVATION DATA			
Big Thompson Farms - Well Number 1 (NE)			
Date	Depth Measured (PVC rim to water) (ft.)	Depth Below Original Ground (ft)	Notes
5/17/2022	26.58	13.83	
6/17/2022	26.37	13.62	
7/20/2022	26.24	13.49	Irrigation repaired
8/31/2022	26.2	13.45	
10/4/2022	26.5	13.75	
11/10/2022	26.62	13.87	
12/18/2022	26.79	14.04	
1/25/2023	27.97	15.22	mud
2/28/2023	26.67	13.92	
3/31/2023	26.62	13.87	
4/27/2023	26.42	13.67	
5/30/2023	25.88	13.13	
6/27/2023	25.48	12.73	
7/25/2023	25.46	12.71	
8/31/2023	25.16	12.41	
10/6/2023	25.75	13	
11/10/2023	26.18	13.43	
		-8.25	

GROUNDWATER OBSERVATION DATA			
Big Thompson Farms - Well Number 2 (SE)			
Date	Depth Measured (PVC rim to water) (ft.)	Depth Below Original Ground (ft)	Notes
01/08/19	21.73	18.48	
02/07/19	21.89	18.64	
04/09/19	22.33	19.08	bottom of well
05/09/19	22.25	19	
06/11/19	21.94	18.69	
07/19/19	21.04	17.79	
08/20/19	21.09	17.84	
09/19/19	21.3	18.05	
10/17/19	21.07	17.82	
11/14/19	21	17.75	
12/17/19	20.67	17.42	cell 20 full 12/5
1/14/2020	20.07	16.82	
2/12/2020	19.95	16.7	
3/10/2020	21.2	17.95	
4/26/2020	24.78	18.53	John extended pipe (grade fill)
5/12/2020	20.07	13.82	
6/8/2020	24.9	18.65	bottom of well
7/10/2020	24.9	18.65	
8/14/2020	24.9	18.65	
9/17/2020	24.9	18.65	
10/20/2020	24.9	18.65	
11/16/2020	24.9	18.65	
12/10/2020	24.9	18.65	
1/14/2021	24.9	18.65	
2/17/2021	24.9	18.65	
3/12/2021	24.9	18.65	
4/28/2021	24.8	18.55	
5/19/2021	24.8	18.55	
6/7/2021	24.85	18.6	
7/16/2021	24.85	18.6	East Wall Liner Installed
8/19/2021	24.82	18.57	
9/24/2021	24.75	18.5	
10/16/2021	24.8	18.55	
11/10/2021	24.81	18.56	
12/9/2021	24.82	18.57	
1/11/2022	25.4	19.15	
2/16/2022	26.1	19.85	
3/22/2022	26.2	19.95	mud
4/18/2022	26.2	19.95	

GROUNDWATER OBSERVATION DATA			
Big Thompson Farms - Well Number 2 (SE)			
Date	Depth Measured (PVC rim to water) (ft.)	Depth Below Original Ground (ft)	Notes
5/17/2022	25.76	19.51	
6/17/2022	25.1	18.85	
7/20/2022	24.84	18.59	
8/31/2022	24.81	18.56	
10/4/2022	24.85	18.6	
11/10/2022	24.91	18.66	
12/18/2022	28	21.75	
1/25/2023	24.95	18.7	
2/28/2023	24.83	18.58	
3/31/2023	24.67	18.42	
4/27/2023	24.64	18.39	
5/30/2023	24.68	18.43	
6/27/2023	24.72	18.47	
7/25/2023	24.71	18.46	
8/31/2023	24.61	18.36	
10/2/2023	24.77	18.52	
11/10/2023	24.84	18.59	
		-6.25	

GROUNDWATER OBSERVATION DATA Big Thompson Farms - Well Number 3 (SW)			
Date	Depth Measured (PVC rim to water) (ft.)	Depth Below Original Ground (ft)	Notes
01/08/19	20.15	16.9	
02/07/19	20.7	17.45	
04/09/19	20.73	17.48	
05/09/19	20.98	17.73	
06/11/19	21.08	17.83	started running water today
07/19/19	21.36	18.11	
08/20/19	23	19.75	bottom
09/19/19	18.84	15.59	
10/17/19	19.1	15.85	
11/14/19	19.3	16.05	
12/17/2019	19.55	16.3	cell 20 full 12/5
1/14/2020	19.81	16.56	
2/12/2020	19.98	16.73	
3/10/2020	20.23	16.98	
4/26/2020	24.45	18.2	John extended pipe (grade fill
5/12/2020	24.17	17.92	
6/8/2020	23.22	16.97	Farmer flood irrigating
7/10/2020	21.34	15.09	
8/14/2020	19.7	13.45	
9/17/2020	19.6	13.35	
10/20/2020	20.1	13.85	
11/16/2020	20.7	14.45	
12/10/2020	21.35	15.1	
1/14/2021	21.9	15.65	
2/17/2021	23.1	16.85	
3/12/2021	23.95	17.7	
4/28/2021	24.45	18.2	
5/19/2021	23.7	17.45	
6/7/2021	23.5	17.25	
7/16/2021	19.6	13.35	
8/19/2021	19.9	13.65	
9/24/2021	20.36	14.11	
10/16/2021	20.9	14.65	
11/10/2021	20.96	14.71	
12/9/2021	21.34	15.09	
1/11/2022	21.72	15.47	
2/16/2022	22.65	16.4	
3/22/2022	22.76	16.51	
4/18/2022	24.1	17.85	

GROUNDWATER OBSERVATION DATA			
Big Thompson Farms - Well Number 3 (SW)			
Date	Depth Measured (PVC rim to water) (ft.)	Depth Below Original Ground (ft)	Notes
5/17/2022	23.8	17.55	
6/17/2022	20.35	14.1	
7/20/2022	18.9	12.65	
8/31/2022	19.4	13.15	
10/4/2022	20.1	13.85	
11/10/2022	21	14.75	
12/18/2022	21.69	15.44	
1/25/2023	22.13	15.88	
2/28/2023	22.56	16.31	
3/31/2023	22.46	16.21	
4/27/2023	23.17	16.92	
5/30/2023	21.35	15.1	
6/27/2023	20.22	13.97	
7/25/2023	19.43	13.18	
8/31/2023	19.03	12.78	
10/2/2023	19.98	13.73	
11/10/2023	20.5	14.25	
		-6.25	



BISHOP-BROGDEN ASSOCIATES, INC.

Christopher J. Sanchez
Jeffrey A. Clark
Daniel O. Niemela
Jonathan D. George
Michael A. Sayler
Charles E. Stanzione

October 30, 2015

Ms. Stephanie Fancher
Loveland Ready Mix Concrete, Inc.
1811 W. 12th Street
P.O. Box 299
Loveland, Colorado 80539

RE: Loveland Ready Mix Concrete, Inc. – Recommended Groundwater Level Monitoring Plan for the Larimer Pit 21

Dear Stephanie:

This letter presents our recommendations for a Groundwater Level Monitoring Plan for the Larimer Pits including the proposed Pit 21. The proposed monitoring plan will utilize the recently installed monitoring wells which will be used to collect baseline information regarding the local hydrology and to satisfy the baseline monitoring period required by the Colorado Division of Reclamation and Mine Safety (DRMS).

Proposed Groundwater Level Monitoring Plan

Loveland Ready Mix Concrete, Inc. (LRM) currently operates a sand and gravel mining permit known as the Larimer Pits which is located in Sections 15, 16 and 17, Township 5 North, Range 69 West under the Colorado Division of Minerals and Geology Permit # 1974-069, as shown in the attached Figure 1. It is our understanding that LRM is currently amending its mining permit boundaries to add the proposed Track B also shown in the attached Figure 1 and referred to as Pit 21. The mining plan includes an estimated dewatering period of approximately 5 to 7 years, depending on market conditions. A ground water barrier (clay liner) will be constructed during mining and is anticipated to be complete shortly after the mining is completed.

Groundwater Monitoring Points

To facilitate the proposed monitoring program, LRM constructed three monitoring wells in March 2015 under approved monitoring well permits to provide depth to groundwater data. The monitoring wells are located along the exterior edge of the Track B property identified in Figure 1. Two of the monitoring wells are located along the southern boundary and one along the eastern boundary of Tract B, as summarized in the following Table 1. The well permits and construction details for these three wells are presented in Appendix 1.

Table 1
Location of LRM's Monitoring Wells

Well Permit #	Location	Northing (UTM y)	Easting (UTM x)	Total Depth (ft)	Depth to Water (ft)	Depth to Bedrock (ft)
297251 (Well #1)	SW¼ SW¼ Sec. 15, T5N, R69W	4471561.0	490178.8	20	10.5	20+
297250 (Well #2)	NE¼ NE¼ Sec. 21, T5N, R69W	4471345.5	490110.9	20	16	18
297249 (Well #3)	SE¼ SE¼ Sec. 16, T5N, R69W	4471370.5	489850.5	20	dry	16

Function of Monitoring Points

The monitoring points are intended to provide baseline data representative of pre-mining ambient conditions for the monitoring program required by the DRMS permitting process. Data collected from the points will help establish baseline hydrologic conditions at the gravel pit location and will generally help to characterize the hydrology within the permit area. During mining, the monitoring points will function in a way that monitors and identifies any problematic change in groundwater levels resulting from the mining activity. By identifying changes in water levels, the monitoring points will function as an early warning system alerting the sand and gravel pit operator if changes in water levels are detected. It is our opinion that the proposed monitoring points are adequate for both the baseline (pre-mining) and operational monitoring purposes.

Hydrologic Setting and Potential Impacts

The proposed Pit 21 gravel pit at LRM's Larimer Pit site will mine sand and gravel material from the Big Thompson River alluvium. Dewatering of the pit during mining will be required due to saturated conditions at the proposed pit location. The dewatering of the proposed pit will lower water levels in the alluvium near the pit. Instantaneous dewatering rates up to approximately 300 gallons per minute (gpm) are expected based on dewatering pump operations at other nearby pits; however, pumping rates are expected to decrease as dewatering progresses. Available geologic mapping indicates that the alluvium at the Larimer Pits site consists of the Post Piney and Broadway alluvial terraces. The location of the proposed Pit 21, specifically, consists of the Broadway alluvial terrace. Based on the geologic mapping, the bedrock below the alluvial aquifer at the site location consists mainly of Pierre Shale.

Available USGS geologic mapping, State Engineer well permit database information, test drilling data and South Platte Decision Support System (SPDSS) mapping were utilized to characterize the alluvial aquifer as part of BBA's efforts to study and characterize the aquifer system. BBA prepared an analysis of water level changes that are likely to result from the mining dewatering and post-mining ground water barrier that will be installed around the pit. The findings of that work are presented in our Technical Memorandum dated May 2, 2014, which we understand is included in the DRMS permit file for this mining facility. Please refer to that

memorandum for additional information on the characterization of the aquifer and water level changes that are expected to occur from the proposed mining operation.

Nearby Wells and Structures and Potential Impacts from Mining Operations

Water Supply Well Concerns

In order to determine potential impacts resulting from the mining operation, BBA inventoried nearby wells and structures adjacent to the proposed pit. We reviewed the Colorado Division of Water Resources' well permit database to identify any wells within the vicinity of Pit 21 that could potentially be impacted by the mining and subsequent lining of Pit 21. With the development of the neighborhoods around the Larimer Pits over the last couple of decades, the majority of the houses in the vicinity are now on City of Loveland water and no longer rely on well water. The database identified four historical wells that were located to the south and not within what we believe to be the alluvial boundary of Pit 21. As described below, we believe these wells no longer exist or are no longer operable.

- Well Permit No. 14654 – LRM contacted the well owner and learned that the well is now inactive and not operational and has not been used for over 10 years. This well is located outside of the primary alluvial aquifer system and in the topographically higher terrace / colluvial deposits. In BBA's 2014 modeling efforts, it was determined that water level changes will not occur at the location of this well.
- Well Permit No. 3610 – This well was investigated by LRM and determined to be once located on the nearby Celebration Church property. LRM contacted the Church and spoke with the Pastor who has been on site at the church property for more than 7 years. He indicated that the church does not use any well on the property, and in fact, is not aware that a well has been used at all in recent years. In the previous BBA modeling investigations, we did not project any water level drawdowns would occur at the location of this well because it is located outside of the primary alluvial aquifer.
- Well Permit No. 2810 – LRM researched the well and learned that the well no longer exists as it is now located within a residential neighborhood / subdivision. In the previous BBA modeling investigations, we did not project any water level drawdowns would occur at the location of this well because it is located outside of the primary alluvial aquifer.
- Well Permit No. 3614 – Please note that the registered location for this well is not accurate. LRM contacted the well owner who is a former employee and learned that the well is located as shown on Figure 1, but the registered location is within the pit mining area, which is not accurate. LRM learned from the well owner that they have not used their well in over 10 years and have no plans to use it in the future. In the previous BBA modeling investigations, BBA did not project any water level drawdowns would occur at the location of this well.

There are no other water supply wells within approximately 1/3 mile of the mining area. We do not believe that any other wells beyond 1/3 of a mile will be impacted by the mining operation based on the results of our modeling investigation. Also, the existing unlined pits located north of the Pit 21 will buffer water level changes north of the pit. It is also important to note that the dewatering period is not projected to extend beyond a 7-year period. Any water level drawdowns with the potential to impact water supply wells is temporary in nature.

In summary, BBA does not believe that the proposed mining operation will impact the operation of any existing water supply wells, and as discussed below, water level triggers and mitigations are not necessary as part of this water level monitoring plan.

Water Level Mounding Concerns

BBA and LRM also considered the potential impacts to nearby structures including basements and agricultural lands. In order to complete this investigation we reviewed the results of the 2014 modeling investigation and reviewed aerial imagery of the area and we relied on LRM knowledge and familiarity with nearby land uses. There are residential properties located south of Pit 21, but the 2014 modeling investigation did not show water level changes at the location of those properties, primarily because those properties are located outside of the primary alluvial aquifer system and are generally located on adjacent terrace deposits located topographically above the alluvial aquifer. The residential properties are also located topographically higher in elevation than Pit 21 and the alluvial aquifer system, which makes it infeasible for water level mounding to impact these properties.

We do not believe that ground water mounding will result in any saturation of nearby agricultural lands. Existing depths to ground water are great enough that this should not be a concern. We note that the reported depth to ground water in Well Permit No. 3614, located as shown on Figure 1, is 19 feet, and the shallowest depth to ground water measured in LRM's monitoring wells located where mounding is projected to occur is 13 feet below the ground surface. BBA's modeling investigation indicated that ground water mounding is not projected to exceed 2.0 feet adjacent to Pit 21, and the water level mounding diminishes with distance. Given this small water level change and the relatively deep water levels below neighboring agricultural lands, there will not be an impact to these lands resulting from ground water mounding.

Water Quality Concerns

The mining operation entails dewatering of the aquifer, the extraction of sand and gravel and the reclamation of the site with a clay liner. Contaminants will not be involved in these processes. Furthermore, we do not believe that neighboring wells will be impacted by the mining operations. As a result, we do not believe that water quality monitoring is necessary as part of the monitoring program.

Groundwater Monitoring Data

LRM has been recording its groundwater observation data monthly at its three monitoring wells since the wells were drilled in March of 2015. The recorded groundwater depths to date for the

three monitoring wells have been summarized and provided in Table 2 at the end of this Groundwater Level Monitoring Plan.

The recorded data so far indicates a variation in water levels throughout the year that is not a result of mining activities. The data indicate fluctuations in water levels resulting from natural hydrology including precipitation events and changes that probably result from land uses including irrigation and irrigation return flows. This level of fluctuation is likely to continue in the future regardless of mining operations.

Groundwater Level Monitoring Schedule

As mentioned above, LRM has already installed three monitoring wells and monthly measurements are already being taken. LRM has committed to collect the groundwater monitoring data monthly for the first 12 months and quarterly thereafter during the duration of mining at Pit 21.

Proposed Trigger Levels and Corrective Actions

As indicated above, we do not believe that injurious water level changes will impact any existing structures or neighboring lands, and specific triggers are not necessary to protect those structures. Given the proximity of the monitoring wells to Pit 21 and the limited pre-mining saturated thickness in the wells, we expect that the monitoring wells may experience significant drawdowns during the dewatering phase of the mining operation, but we do not believe that the water level drawdowns in these wells will be indicative of injurious impacts to neighboring wells. Nevertheless, the monitoring wells will quantify water level changes adjacent to Pit 21, which will help to define how the aquifer system responds to the dewatering activities and clay liner installation.

If you have any questions or comments, please do not hesitate to call. We are available to support the implementation of these monitoring points and the monitoring program, if needed.

Very truly yours,

BISHOP-BROGDEN ASSOCIATES, INC.



Jennifer S. Lindahl, P.E.
Senior Water Resource Engineer



Christopher J. Sanchez, P.G.
Principal

JSL/CJS/jeb
Enclosures
9641.12

APPENDIX A

TABLE 2

Loveland Ready Mix Concrete, Inc.
Monitoring Well #1, Permit No. 297251, Depth to Groundwater Data
(Original Depth to Groundwater = 10.5 feet)

Date of Measurement	Depth Measured (PVC rim to water) (ft)	Depth Below Original Ground (ft)	Notes
3/30/2015	10.93	7.68	Initial reading
4/30/2015	11.1	7.85	
5/29/15	11	7.75	
6/24/15	11.26	8.01	Removing overburden cell 20
7/24/15	12.38	9.13	Mining cell 20
8/26/15	12.6	9.35	
9/28/15	12.96	9.71	
10/28/15	15.01	11.76	

Loveland Ready Mix Concrete, Inc.
Monitoring Well #2, Permit No. 297250, Depth to Groundwater Data
(Original Depth to Groundwater = 16 feet)

Date of Measurement	Depth Measured (PVC rim to water) (ft)	Depth Below Original Ground (ft)	Notes
3/30/2015	17.73	13.94	Initial reading
4/30/2015	17.5	13.71	
5/29/15	16.8	13.55	
6/24/15	16.12	12.87	Very wet spring
7/24/15	17.4	14.15	
8/26/15	17.42	14.17	
9/28/15	17.82	14.57	
10/28/15	17.35	14.10	

Loveland Ready Mix Concrete, Inc.
Monitoring Well #3, Permit No. 297249, Depth to Groundwater Data
(Original Depth to Groundwater > 20 feet)

Date of Measurement	Depth Measured (PVC rim to water) (ft)	Depth Below Original Ground (ft)	Notes
3/30/2015	22.06	18.27	Initial reading
4/30/2015	20.7	16.91	Very wet spring
5/29/15	19.6	16.35	
6/24/15	16.8	13.55	Very wet spring
7/24/15	16.68	13.43	Running irrigation sprinkler
8/26/15	16.65	13.4	
9/28/15	17.21	13.96	
10/28/15	17.56	14.31	

FORM NO.
GWS-31
4/2012

WELL CONSTRUCTION AND TEST REPORT
STATE OF COLORADO, OFFICE OF THE STATE ENGINEER
1313 Sherman St., Ste 821, Denver, CO 80203
Main (303) 866-3581 Fax (303) 866-3589 www.water.state.co.us

For Office Use Only

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MAR 10 2015

WATER RESOURCES
STATE ENGINEER
COLO

1. WELL PERMIT NUMBER: MH 063387-297249

2. WELL OWNER INFORMATION
NAME OF WELL OWNER: Loveland Ready Mix, Inc.
MAILING ADDRESS: P. O. Box 299
CITY: Loveland STATE: CO ZIP CODE: 80539-0299
TELEPHONE NUMBER w/area code: 970-667-2680

3. WELL LOCATION AS DRILLED: SE 1/4, SE 1/4, Sec., 16 Twp 5 N or S, Range 69 E or W
DISTANCES FROM SEC. LINES: 13 ft. from N or S section line and 1038 ft. from E or W section line.
SUBDIVISION: Amend Plat of Big Thompson Farms Add., Tract B, LOT, BLOCK 1 FILING (UNIT)
Optional GPS Location: GPS Unit must use the following settings: Format must be UTM, Units must be meters, Datum must be NAD83, Unit must be set to true N, Zone 12 or Zone 13
STREET ADDRESS AT WELL LOCATION: West 1st Street Northing:

4. GROUND SURFACE ELEVATION 5020.7 feet
DATE COMPLETED 03/05/2015 TOTAL DEPTH 20 feet DEPTH COMPLETED 20 feet

5. GEOLOGIC LOG:
Depth Type Grain Size Color Water Loc.
0-7' Clayey sand #4 to #270 Brown
7-16' sandy gravel -6" to + #200 Brown
16' to 20' claystone #200 Gray no water

6. HOLE DIAM (in.) From (ft) To (ft)
6.5" 0 20
7. PLAIN CASING:
OD (in) Kind Wall Size (in) From (ft) To (ft)
2 SCH 40 0 10
PERFORATED CASING: Screen Slot Size (in): .01
10'
8. FILTER PACK:
Material Silica sand
Size #10-#20
Interval -20' to -8'
9. PACKER PLACEMENT:
Type
Depth
10. GROUTING RECORD
Material Amount Density Interval Placement
Bentonite 200# -8' to -0.5'
Concrete 1 sk -0.5 to Gr.

Remarks:

11. DISINFECTION: Type N/A Amt. Used

12. WELL TEST DATA: Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test.
TESTING METHOD
Static Level ft. Date/Time measured: Production Rate gpm.
Pumping Level ft. Date/Time measured Test Length (hrs)
Remarks:

13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed (or name entered if filing online) and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license. If filing online the State Engineer considers entering of licensed contractor name to be compliance with Rule 17.4
Company Name: Drilling Engineers Phone w/area code: 970-484-5183 License Number: 1367
Mailing Address: 1309 Duff Drive, Fort Collins, Co 80522
Sign (or enter name if filing online) Rick Rogers Print Name and Title Rick Rogers (Owner) Date 03/10/2015

**OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES**

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

1367

WELL PERMIT NUMBER 297249 - -
DIV. 1 WD 4 DES. BASIN MD

APPLICANT

LOVELAND READY MIX INC
C/O LANDMARK ENGINEERING LTD
3521 W EISENHOWER BLVD
LOVELAND, CO 80537-

(970) 667-6286

APPROVED WELL LOCATION

LARIMER COUNTY

SE 1/4 SE 1/4 Section 16
Township 5 N Range 69 W Sixth P.M.

DISTANCES FROM SECTION LINES

13 Ft. from South Section Line
1038 Ft. from East Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: Northing:

PERMIT TO USE AN EXISTING WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice MH-53387, and known as Well # 3.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- 8) The owner shall mark the well in a conspicuous place with the well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.
- 10) This well must be located not more than 200 feet from the location specified on this permit.

NOTE: Issuance of this permit does not guarantee that this well can be converted to a production well under a future permit. Additionally, pursuant to Rule 14.2 of the Water Well Construction Rules (2 CCR 402-2), monitoring holes constructed pursuant to a monitoring hole notice shall not be converted to a production well. (Upon obtaining a permit from the State Engineer, a monitoring hole may be converted to a monitoring well, recovery well for remediation of the aquifer, or a dewatering system for dewatering the aquifer.)

APPROVED
JB4


State Engineer


By
EXPIRATION DATE N/A

Receipt No. 3668735A

DATE ISSUED 04-03-2015

3x #25 AE

COLORADO DIVISION OF WATER RESOURCES DEPARTMENT OF NATURAL RESOURCES 1313 SHERMAN ST., Ste 821, DENVER CO 80203 Phone: (303) 866-3581 Fax: (303) 866-2223 dwrpermitsonline@state.co.us			Office Use Only		Form GWS-46 (11/2011)	
MONITORING/OBSERVATION Water Well Permit Application Review instructions on reverse side prior to completing form. The form must be typed, completed online or in black or blue ink.			<div>RECEIVED</div> <div>MAR 10 2015</div> <div>WATER RESOURCES STATE ENGINEER COLO</div>			
1. Well Owner Information			6. Use Of Well			
Name of well owner Loveland Ready Mix, Inc.			Use of this well is limited to monitoring water levels and/or water quality sampling			
Mailing address P. O. Box 299			7. Well Data (proposed)			
City Loveland		State CO	Zip code 80539-0299	Total depth 20 feet		Aquifer Big Thompson
Telephone # 970-667-2680		E-Mail (If filing online it is required)				
2. Type Of Application (check applicable boxes)			8. Consultant Information (if applicable)			
<input checked="" type="checkbox"/> Use existing well <input type="checkbox"/> Replacement for existing monitoring well: <input type="checkbox"/> Construct new well Permit no.: <input type="checkbox"/> Other:			Name of contact person Larry Miller			
3. Refer To (if applicable)			Company name Landmark Engineering Ltd			
Monitoring hole acknowledgment MH- 053387		Well name or # Well #3				
4. Location Of Proposed Well (Important! See Instructions)			Mailing address 3521 West Eisenhower Blvd.			
County Larimer		Telephone # 970-667-6286 ext 209				
Section 16	Township 5	N or S <input checked="" type="checkbox"/> N <input type="checkbox"/> S	Range 69	E or W <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Zip Code 80537	
Principal Meridian 6th						
Distance of well from section lines (section lines are typically not property lines) 13 Ft from <input type="checkbox"/> N <input checked="" type="checkbox"/> S 1038 Ft from <input checked="" type="checkbox"/> E <input type="checkbox"/> W						
For replacement wells only – distance and direction from old well to new well feet direction						
Well location address (Include City, State, Zip) <input type="checkbox"/> Check if well address is same as Item 1. Loveland, Colorado, 80537						
Optional: GPS well location information in UTM format You must check GPS unit for required settings as follows:						
Format must be UTM <input type="checkbox"/> Zone 12 or <input type="checkbox"/> Zone 13 Units must be Meters Datum must be NAD83 Unit must be set to true north Was GPS unit checked for above? <input type="checkbox"/> YES		Easting _____ Northing _____ Remember to set Datum to NAD83				
5. Property Owner Information						
Name of property owner Big Thompson Farms						
Mailing address P. O. Box 299						
City Loveland		State CO	Zip Code 80539-0299	Telephone # 970-667-2680		
Office Use Only				Receipt area only		
USGS map name				DWR map no.	Surface elev.	
Transaction # 3668735 A Date: 3/10/2015 2:15:33 PM Transaction Total: \$300.00 CREDIT CARD \$300.00						
DIV <u>1</u> WD <u>4</u> BA _____ MD _____						

FORM NO. GWS-31 4/2012		WELL CONSTRUCTION AND TEST REPORT STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman St., Ste 821, Denver, CO 80203 Main (303) 866-3581 Fax (303) 866-3589 www.water.state.co.us		For Office Use Only	
1. WELL PERMIT NUMBER: MH-053388 <u>297250</u>					
2. WELL OWNER INFORMATION					
NAME OF WELL OWNER: Loveland Ready Mix. Inc.					
MAILING ADDRESS: P. O. Box 299					
CITY: Loveland		STATE: CO		ZIP CODE: 80539-0294	
TELEPHONE NUMBER w/area code: 970-667-2680					
3. WELL LOCATION AS DRILLED: NE 1/4, NE 1/4, Sec., 21 Twp 5 N or S, Range 69 E or W DISTANCES FROM SEC. LINES: 77 ft. from N or S section line and 183 ft. from E or W section line. SUBDIVISION: Amend Plat of Big Thompson Farms Add., Tract B, LOT, BLOCK 1 FILING (UNIT) Optional GPS Location: GPS Unit must use the following settings: Format must be UTM, Units must be meters, Datum must be NAD83, Unit must be set to true N, Zone 12 or Zone 13 STREET ADDRESS AT WELL LOCATION: West 1st Street Northing:					
4. GROUND SURFACE ELEVATION 5005.0 feet DRILLING METHOD 4-1/4" I.D. HSA DATE COMPLETED 03/05/2015 TOTAL DEPTH 20 feet DEPTH COMPLETED 20 feet					
5. GEOLOGIC LOG:				6. HOLE DIAM (in.) From (ft) To (ft)	
Depth	Type	Grain Size	Color	Water Loc.	
0-10'	Clayey sand	#4 to - #270	Brown		6.5" 0 20
10'-18'	sandy gravel	-6" to + #200	Brown	16'	
18' to 20'	claystone	-#200	Gray		
				7. PLAIN CASING:	
				OD (in) Kind Wall Size (in) From (ft) To (ft)	
				2 SCH 40 0 10	
				PERFORATED CASING: Screen Slot Size (in): .01	
				10'	
				8. FILTER PACK:	
				Material Silica sand	
				Size #10-#20	
				Interval -20' to -8'	
				9. PACKER PLACEMENT:	
				Type	
				Depth	
				10. GROUTING RECORD	
				Material Amount Density Interval Placement	
				Bentonite 200# -8' to -0.5'	
				Concrete 1 sk -0.5 to Gr.	
Remarks:					
11. DISINFECTION: Type N/A Amt. Used					
12. WELL TEST DATA: Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test.					
TESTING METHOD					
Static Level _____ ft. Date/Time measured: _____ Production Rate _____ gpm.					
Pumping Level _____ ft. Date/Time measured _____ Test Length (hrs) _____					
Remarks:					
13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed (or name entered if filing online) and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license. If filing online the State Engineer considers entering of licensed contractor name to be compliance with Rule 17.4					
Company Name: Drilling Engineers				Phone w/area code: 970-484-5183	
				License Number: 1367	
Mailing Address: 1309 Duff Drive, Fort Collins, Co 80522					
Sign (or enter name if filing online) Rick Rogers				Print Name and Title Rick Rogers (Owner)	
				Date 03/10/2015	

COLORADO DIVISION OF WATER RESOURCES
DEPARTMENT OF NATURAL RESOURCES
1313 SHERMAN ST., Ste 821, DENVER CO 80203
Phone: (303) 866-3581 Fax: (303) 866-2223 dwrpermitsonline@state.co.us

MONITORING/OBSERVATION

Water Well Permit Application

Review instructions on reverse side prior to completing form.
The form must be typed, completed online or in black or blue ink.

1. Well Owner Information

Name of well owner

Loveland Ready Mix, Inc.

Mailing address

P. O. Box 299

City

Loveland

State

CO

Zip code

80539-0299

Telephone #

970-667-2680

E-Mail (if filing online it is required)

2. Type Of Application (check applicable boxes)

- ☒ Use existing well ☐ Replacement for existing monitoring well:
☐ Construct new well Permit no.:
☐ Other:

3. Refer To (if applicable)

Monitoring hole acknowledgment

MH- 053388

Well name or #

Well #2

4. Location Of Proposed Well (Important! See Instructions)

County

Larimer

NE 1/4 of the NE 1/4

Section

21

Township

5

N or S

☒ N ☐ S

Range

69

E or W

☐ E ☒ W

Principal Meridian

6th

Distance of well from section lines (section lines are typically not property lines)

77 Ft. from ☒ N ☐ S 183 Ft. from ☒ E ☐ W

For replacement wells only — distance and direction from old well to new well

feet

direction

Well location address (Include City, State, Zip) ☐ Check if well address is same as Item 1.

Loveland, Colorado, 80537

Optional: GPS well location information in UTM format
You must check GPS unit for required settings as follows:

Format must be UTM

☐ Zone 12 or ☐ Zone 13

Units must be Meters

Datum must be NAD83

Unit must be set to true north

Was GPS unit checked for above? ☐ YES

Easting

Northing

Remember to set Datum to NAD83

5. Property Owner Information

Name of property owner

Big Thompson Farms

Mailing address

P. O. Box 299

City

Loveland

State

CO

Zip Code

80539-0299

Telephone #

970-667-2680

Office Use Only

Form GWS-46 (11/2011)

RECEIVED
MAR 10 2015
WATER RESOURCES
STATE ENGINEER
COLORADO

6. Use Of Well

Use of this well is limited to monitoring water levels
and/or water quality sampling

7. Well Data (proposed)

Total depth

20

feet

Aquifer

Big Thompson

8. Consultant Information (if applicable)

Name of contact person

Larry Miller

Company name

Landmark Engineering Ltd

Mailing address

3521 West Eisenhower Blvd.

City

Loveland

State

CO

Zip Code

80537

Telephone #

970-667-6286 ext 209

9. Proposed Well Driller License #(optional):

10. Name of Well Owner or Authorized Agent

The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104 (13)(a). I have read the statements herein, know the contents thereof and state that they are true to my knowledge.

Sign or enter full name here

Larry Miller

Date (mm/dd/yyyy)

03/10/2015

If signing print name. Print title if other than land owner.

Larry Miller, Consultant

Office Use Only

USGS map name

DWR map no.

Surface elev.

Receipt area only

Transaction #: 3668735
Date: 3/10/2015 2:15:33 PM
Transaction Total: \$300.00
CREDIT CARD \$300.00

DIV 1 WD 4 BA MD

APPLICANT

LOVELAND READY MIX INC
C/O LANDMARK ENGINEERING LTD
3521 W EISENHOWER BLVD
LOVELAND, CO 80537-

(970) 667-6286

WELL PERMIT NUMBER 297250 - -
DIV. 1 WD 4 DES. BASIN MD

APPROVED WELL LOCATION

LARIMER COUNTY
NE 1/4 NE 1/4 Section 21
Township 5 N Range 69 W Sixth P.M.

DISTANCES FROM SECTION LINES

77 Ft. from North Section Line
183 Ft. from East Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: Northing:

PERMIT TO USE AN EXISTING WELL

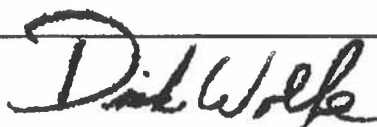
ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice MH-53388, and known as Well # 2.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- 8) The owner shall mark the well in a conspicuous place with the well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.
- 10) This well must be located not more than 200 feet from the location specified on this permit.

NOTE: Issuance of this permit does not guarantee that this well can be converted to a production well under a future permit. Additionally, pursuant to Rule 14.2 of the Water Well Construction Rules (2 CCR 402-2), monitoring holes constructed pursuant to a monitoring hole notice shall not be converted to a production well. (Upon obtaining a permit from the State Engineer, a monitoring hole may be converted to a monitoring well, recovery well for remediation of the aquifer, or a dewatering system for dewatering the aquifer.)

APPROVED
JB4



State Engineer



By

Receipt No. 3668735B

DATE ISSUED 04-03-2015

EXPIRATION DATE N/A

FORM NO. GWS-31 4/2012	WELL CONSTRUCTION AND TEST REPORT STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman St., Ste 821, Denver, CO 80203 Main (303) 866-3581 Fax (303) 866-3589 www.water.state.co.us	For Office Use Only <div style="text-align:right; font-size: small;">RECEIVED MAR 10 2015 WATER RESOURCE STATE ENGINEER'S OFFICE</div>		
1. WELL PERMIT NUMBER: MH-053386 297251				
2. WELL OWNER INFORMATION				
NAME OF WELL OWNER: Loveland Ready Mix, Inc.				
MAILING ADDRESS: P. O. Box 299				
CITY: Loveland	STATE: CO	ZIP CODE: 80539-0299		
TELEPHONE NUMBER w/area code: 970-667-2680				
3. WELL LOCATION AS DRILLED: SW 1/4, SW 1/4, Sec., 15 Twp 5 N or S, Range 69 E or W W				
DISTANCES FROM SEC. LINES: 628 ft. from N or S section line and 39 ft. from E or W section line.				
SUBDIVISION: Amend Plat of Big Thompson Farms Add., Tract B LOT BLOCK 1 FILING (UNIT)				
Optional GPS Location: GPS Unit must use the following settings: Format must be UTM, Units must be meters, Datum must be NAD83, Unit must be set to true N, Zone 12 or Zone 13				
STREET ADDRESS AT WELL LOCATION: North Wilson Avenue Northing:				
4. GROUND SURFACE ELEVATION 4995.4 feet DRILLING METHOD 4-1/4" I.D. HSA				
DATE COMPLETED 03/05/2015 TOTAL DEPTH 20 feet DEPTH COMPLETED 20 feet				
5. GEOLOGIC LOG:				
Depth	Type	Grain Size	Color	Water Loc.
0-5'	Clayey sand	-#4 to - #270	Brown	
5'-20'	sandy gravel	-6" to + #200	Brown	10.5'
6. HOLE DIAM (in.) From (ft) To (ft)				
6.5" 0 20				
7. PLAIN CASING:				
OD (in) Kind Wall Size (in) From (ft) To (ft)				
2 SCH 40 0 10				
PERFORATED CASING: Screen Slot Size (in): .01				
10'				
8. FILTER PACK:				
Material Silica sand Type				
Size #10-#20 Depth				
Interval -20' to -8'				
9. PACKER PLACEMENT:				
10. GROUTING RECORD				
Material Amount Density Interval Placement				
Bentonite 200# -8' to -0.5'				
Concrete 1 sk -0.5 to Gr.				
Remarks:				
11. DISINFECTION: Type N/A Amt. Used				
12. WELL TEST DATA: Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test.				
TESTING METHOD				
Static Level ft. Date/Time measured: Production Rate gpm.				
Pumping Level ft. Date/Time measured: Test Length (hrs).				
Remarks:				
13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed (or name entered if filing online) and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license. If filing online the State Engineer considers entering of licensed contractor name to be compliance with Rule 17.4				
Company Name: Drilling Engineers		Phone w/area code: 970-484-5183		License Number: 1367
Mailing Address: 1309 Duff Drive, Fort Collins, Co 80522				
Sign (or enter name if filing online) Rick Rogers		Print Name and Title Rick Rogers (Owner)		Date 03/10/2015

**OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES**

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

1367

WELL PERMIT NUMBER 297251 - -
DIV. 1 WD 4 DES. BASIN MD

APPLICANT

LOVELAND READY MIX INC
C/O LANDMARK ENGINEERING LTD
3521 W EISENHOWER BLVD
LOVELAND, CO 80537-

(970) 667-6286

APPROVED WELL LOCATION

LARIMER COUNTY
SW 1/4 SW 1/4 Section 15
Township 5 N Range 69 W Sixth P.M.

DISTANCES FROM SECTION LINES

628 Ft. from South Section Line
39 Ft. from West Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: Northing:

PERMIT TO USE AN EXISTING WELL

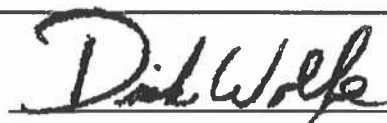
ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice MH-53386, and known as Well # 1.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- 8) The owner shall mark the well in a conspicuous place with the well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.
- 10) This well must be located not more than 200 feet from the location specified on this permit.

NOTE: Issuance of this permit does not guarantee that this well can be converted to a production well under a future permit. Additionally, pursuant to Rule 14.2 of the Water Well Construction Rules (2 CCR 402-2), monitoring holes constructed pursuant to a monitoring hole notice shall not be converted to a production well. (Upon obtaining a permit from the State Engineer, a monitoring hole may be converted to a monitoring well, recovery well for remediation of the aquifer, or a dewatering system for dewatering the aquifer.)

APPROVED
JB4


State Engineer


By

Receipt No. 3668735C

DATE ISSUED 04-03-2015

By EXPIRATION DATE N/A

COLORADO DIVISION OF WATER RESOURCES
DEPARTMENT OF NATURAL RESOURCES
1313 SHERMAN ST., Ste 821, DENVER CO 80203
Phone: (303) 866-3581 Fax: (303) 866-2223 dwrpermitsonline@state.co.us

MONITORING/OBSERVATION

Water Well Permit Application

Review Instructions on reverse side prior to completing form.
The form must be typed, completed online or in black or blue ink.

1. Well Owner Information

Name of well owner

Loveland Ready Mix, Inc.

Mailing address

P. O. Box 299

City

Loveland

State

CO

Zip code

80539-0299

Telephone #

970-667-2680

E-Mail (If filing online it is required)

2. Type Of Application (check applicable boxes)

- ☒ Use existing well ☐ Replacement for existing monitoring well:
☐ Construct new well ☐ Other:
Permit no.:

3. Refer To (if applicable)

Monitoring hole acknowledgment

MH- 053386

Well name or #

Well #1

4. Location Of Proposed Well (Important! See Instructions)

County

Larimer

SW 1/4 of the SW 1/4

Section

15

Township

5

N or S

☒ S

Range

69

E or W

☒ W

Principal Meridian

6th

Distance of well from section lines (section lines are typically not property lines)

628

Ft. from ☐ N ☒ S 39

Ft. from ☐ E ☒ W

For replacement wells only - distance and direction from old well to new well

feet

direction

Well location address (Include City, State, Zip) ☐ Check if well address is same as Item 1.

Loveland, Colorado, 80537

Optional: GPS well location information in UTM format
You must check GPS unit for required settings as follows:

Format must be UTM

☐ Zone 12 or ☐ Zone 13

Units must be Meters

Datum must be NAD83

Unit must be set to true north

Was GPS unit checked for above? ☐ YES

Easting

Northing

Remember to set Datum to NAD83

5. Property Owner Information

Name of property owner

Big Thompson Farms

Mailing address

P. O. Box 299

City

Loveland

State

CO

Zip Code

80539-0299

Telephone #

970-667-2680

Office Use Only

Form GWS-46 (11/2011)

RECEIVED
MAR 10 2015
WATER DIVISION
STATE ENGINEER
COLORADO

6. Use Of Well

Use of this well is limited to monitoring water levels
and/or water quality sampling

7. Well Data (proposed)

Total depth

20

feet

Aquifer

Big Thompson

8. Consultant Information (if applicable)

Name of contact person

Larry Miller

Company name

Landmark Engineering Ltd

Mailing address

3521 West Eisenhower Blvd.

City

Loveland

State

CO

Zip Code

80537

Telephone #

970-667-6286 ext 209

9. Proposed Well Driller License #(optional):

10. Name of Well Owner or Authorized Agent

The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104 (13)(a). I have read the statements herein, know the contents thereof and state that they are true to my knowledge.

Sign or enter full name here

Larry Miller

Date (mm/dd/yyyy)

03/10/2015

If signing print name. Print title if other than land owner.

Larry Miller, Consultant

Office Use Only

USGS map name

DWR map no.

Surface elev.

Receipt area only

Transaction #: 3668735 C
Date: 3/10/2015 2:15:33 PM
Transaction Total: \$300.00
CREDIT CARD \$300.00

DIV 1 WD 4 BA MD