

From: [Stichnoth, Rachel](#)
To: [Beard, Scott](#)
Cc: commissioners@gibsoncounty-in.gov
Subject: Gibson County Landfill No. 2 (SW Program ID #26-03) June 2024 GW Elevation Contours (Email 2 of 2)
Date: Friday, September 6, 2024 2:55:41 PM
Attachments: [image731831.png](#)
[image735275.png](#)
[image403184.png](#)
[GCLF #2 Ltr to IDEM 06-2024.pdf](#)

EXTERNAL EMAIL: This email was sent from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Good afternoon Mr. Beard,

On behalf of our client, the Gibson Co. Commissioners, Weaver Consultants Group (WCG), is herein submitting the attached digital copy of the June 2024 Groundwater Elevation Contour Maps for the above-referenced facility.

If you have any questions or comments regarding the contents of the report, please contact me.

Thank you,

Rachel Stichnoth

Project Geologist

 **Weaver Consultants Group**

35 E. Wacker Drive | Suite 1250

Chicago, IL 60601

O: 312-922-1030 | F: 312-922-0201 | M: 920-544-1433

rstichnoth@wcgrp.com | www.wcgrp.com 



IMPORTANT NOTICE: The information contained in this email message (including any attachments) may be confidential, privileged or both, and is intended exclusively for the addressee(s) intended by the sender. If it appears you have received this email message in error, please notify the sender immediately and then delete; any other use of this email message is prohibited. Thank you.



September 6, 2024

Mr. Scott Beard
Geologist 2, Geology Section
Indiana Department of Environmental Management
Office of Land Quality – Permits Branch
100 North Senate Avenue
IGCN 1101
Indianapolis, Indiana 46204-2251

Re: June 2024 Groundwater Elevation Contours
Gibson County Landfill No. 2 (FP #26-03)
Project No. 2663-351-14-15

Dear Mr. Beard:

On behalf of our client, the Gibson County Commissioners, **Weaver Consultants Group North Central, LLC** (WCG) is herein presenting the groundwater elevation data gathered on June 25, 2024, for Gibson County Landfill No. 2. Gibson County Landfill No. 2 is located in Gibson County near Princeton, Indiana. The closed landfill lies in the southern portion of the property along County Road 175 E, south of both Pigeon Creek and the Gibson County Highway Garage located at 1791 East 350 S, Princeton, Indiana, 47670.

The June 2024 groundwater gauging event was performed in accordance with the scope of work submitted to IDEM on January 27, 2017, which was approved with modifications by the Indiana Department of Environmental Management (IDEM) on April 27, 2017. During this gauging event, the facility's monitoring wells and piezometers were observed by WCG to be in good condition, functioning as designed, and appear to continue to be capable of providing representative groundwater level measurements and groundwater samples.

The monitoring wells and piezometers were gauged at Landfill No. 2 on June 25, 2024. This data was used to produce groundwater elevation contour maps depicting groundwater flow direction. Groundwater levels measured are summarized on the attached **Table 1 - Monitoring Well Gauging Data**. Groundwater levels were used to produce the contour maps for the shallow and deep groundwater zones at the facility (**Figures 1 and 2**).

Mr. Scott Beard

September 6, 2024

The groundwater flow direction for the shallow zone is predominantly to the north/northeast and flow in the deep zone is generally to the north/northeast, which is generally consistent with previous events.

In accordance with the approved scope of work, groundwater levels will continue to be measured semi-annually to produce groundwater elevation contour maps depicting groundwater flow direction. The next groundwater analysis and gauging event will occur in November 2024.

We trust that this information meets with your needs at this time. If you should have any questions or comments, please do not hesitate to contact our office at 312-922-1030.

Sincerely,

Weaver Consultants Group North Central, LLC



Rachel Stichnoth
Project Geologist

Attachments: Table 1 - Monitoring Well Gauging Data

Figure 1 - Shallow Zone Potentiometric Surface Map

Figure 2 - Deep Zone Potentiometric Surface Map

Cc: Gibson County Commissioners (w/ encl.)

Table 1
Gibson County Landfill No. 2
Monitoring Well Gauging Data
June 2024 Monitoring Event

Monitoring Well ID	TOC Elevation (ft msl)	Depth to Water (ft from TOC)	Groundwater Elevation (ft msl)	Total Depth ³ (ft from TOC)	Installation Depth ¹ (ft from TOC)	Accumulated Sediment in Well (ft)	Screen Length ¹ (ft)
MW-1 ²	463.66	17.08	446.58	33.3	35.4	2.14	5
MW-2S	461.36	19.39	441.97	27.9	28.4	0.48	7
MW-2DR	463.09	21.50	441.59	61.6	60.9	-0.70	5
MW-3R	448.92	4.81	444.11	17.7	18.3	0.63	7
MW-4	462.81	17.36	445.45	30.3	30.4	0.05	5
PZ-5*	451.19	9.95	441.24	72.2	72.6	0.41	5
MW-5S*	450.69	8.79	441.90	17.5	17.5	0.08	5
MW-5D*	451.02	9.97	441.05	51.3	52.4	1.18	5
MW-6S	445.17	4.60	440.57	17.3	17.7	0.42	5
MW-6D	444.87	5.31	439.56	47.9	48.2	0.30	5
MW-7S	446.67	5.51	441.16	17.8	18.0	0.21	5
MW-7DR ⁵	445.83	6.08	439.75	46.7	46.7	-0.01	5
MW-8S	466.49	22.43	444.06	23.8	25.5	-0.01	5
MW-8D	466.56	22.94	443.62	55.1	55.5	0.35	5
MW-9S	466.01	20.49	445.52	27.3	27.7	0.36	7
MW-9D*	466.31	20.81	445.50	55.5	57.7	see Note 4	5
MW-10S	463.48	17.29	446.19	25.1	25.2	0.13	7
MW-10D	462.48	16.30	446.18	55.6	55.3	-0.30	5
MW-11S	454.07	10.30	443.77	17.5	17.7	0.20	7
MW-11D	454.03	10.37	443.66	35.2	35.2	-0.04	5
MW-12S	465.56	17.15	448.41	24.8	25.2	0.39	7
MW-13S	464.78	18.20	446.58	24.8	25.2	0.35	5
PZ-13D*	466.03	19.45	446.58	57.2	57.3	0.04	5
MW-14M	442.47	6.40	436.07	23.4	25.1	1.72	7

¹ Source (except for MW-2DR): Table 1, Semi-Annual Groundwater Monitoring Event Report May 2009 prepared by Environmental Management Consultants, Inc. dated July 20, 2009.

² Efforts to locate well completion diagram were made in an attempt to verify the installation depth data included in the May 2009 monitoring event report. Completion diagrams could not be located. However, a rigid well bottom is evident when using a water level indicator after redevelopment of the well in November 2022.

³ Total Well Depths measured annually in accordance with the SAP. Current Total Depths are from June 2024 Monitoring Event.

⁴ Current total depth inconsistent with installation depth due to bailer suspended in the bottom of the well.

⁵ MW-7DR replacement well installed by WCG in November 2022 and surveyed by Hampton Lenzini and Renwick Inc.

TOC = Top of Casing

MSL = Mean Sea Level

* Piezometer



