

NPDES Permit No. IL0080169

Notice No. BDF:19071701.bdf

Public Notice Beginning Date: **August 16, 2019**

Public Notice Ending Date: **September 16, 2019**

National Pollutant Discharge Elimination System (NPDES)
Permit Program

PUBLIC NOTICE/FACT SHEET
of
Draft New NPDES Permit to Discharge into Waters of the State

Public Notice/Fact Sheet Issued By:

Illinois EPA
Division of Water Pollution Control
Permit Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
217/782-0610

Name and Address of Permittee:

Khalil Takla
15425 Purley Court
Homer Glen, Illinois 60491

Name and Address of Facility:

Takla Residence Private Sewage Disposal System
15425 Purley Court
Homer Glen, Illinois 60491
(Will County)

The Illinois Environmental Protection Agency (IEPA) has made a tentative determination to issue a NPDES Permit to discharge into the waters of the state and has prepared a draft Permit and associated fact sheet for the above named Permittee. The Public Notice period will begin and end on the dates indicated in the heading of this Public Notice/Fact Sheet. All comments on the draft Permit and requests for hearing must be received by the IEPA by U.S. Mail, carrier mail or hand delivered by the Public Notice Ending Date. Interested persons are invited to submit written comments on the draft Permit to the IEPA at the above address. Commentors shall provide his or her name and address and the nature of the issues proposed to be raised and the evidence proposed to be presented with regards to those issues. Commentors may include a request for public hearing. Persons submitting comments and/or requests for public hearing shall also send a copy of such comments or requests to the Permit applicant. The NPDES Permit and notice numbers must appear on each comment page.

The application, engineer's review notes including load limit calculations, Public Notice/Fact Sheet, draft Permit, comments received, and other documents are available for inspection and may be copied at the IEPA between 9:30 a.m. and 3:30 p.m. Monday through Friday when scheduled by the interested person.

If written comments or requests indicate a significant degree of public interest in the draft Permit, the permitting authority may, at its discretion, hold a public hearing. Public notice will be given 45 days before any public hearing. Response to comments will be provided when the final Permit is issued. For further information, please call Brant Fleming at 217/782-0610.

The following water quality and effluent standards and limitations were applied to the discharge:

Title 35: Environmental Protection, Subtitle C: Water Pollution, Chapter I: Pollution Control Board and the Clean Water Act were applied in determining the applicable standards, limitations and conditions contained in the draft Permit.

The applicant is engaged in treating less than 1500 gpd of domestic wastewater from a single-family residence. Treatment consists of a septic tank followed by disinfection.

The length of the Permit is approximately 5 years.

The main discharge number is 001. The seven day once in ten year low flow (7Q10) of the receiving stream, unnamed tributary of Long Run is 0 cfs.

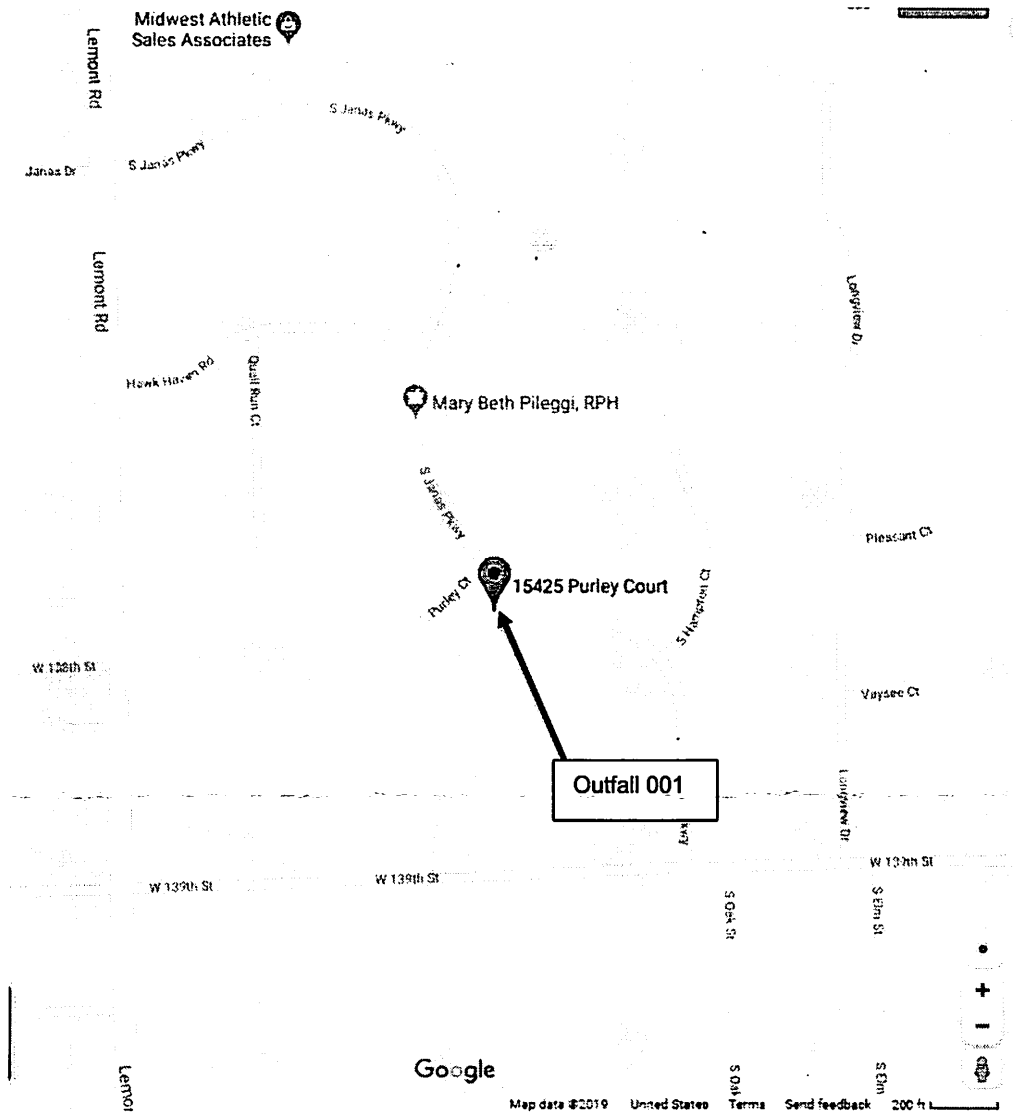
Pursuant to the waiver provisions authorized by 40 CFR § 123.24, this draft permit is within the class, type, and size for which the Regional Administrator, Region V, has waived his right to review, object, or comment on this draft permit action.

Application is made for the new discharge(s) which is located in Will County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

| Discharge Number | Receiving Stream | Latitude | Longitude | Stream Classification | Integrity Rating |
|------------------|-------------------------------|-------------------|------------------|-----------------------|------------------|
| 001 | Unnamed tributary of Long Run | 41° 38' 14" North | 87° 59' 42" West | General Use | Not Rated |

To assist you further in identifying the location of the discharge(s) please see the below map.

The stream segment(s), tributary to waterbody segment GHE-01, receiving the discharge from outfall(s) 001 is not on the draft 2016 303 (d) list of impaired waters.



The discharge(s) from the facility is (are) proposed to be monitored and limited at all times as follows:

Discharge Number(s) and Name(s): 001 Outfall

The effluent of the above discharge(s) shall be monitored and limited at all times as follows:

| Parameter | CONCENTRATION LIMITS (mg/L) | | Regulation |
|-------------------|--|---------------|----------------------------------|
| | Yearly Average | Daily Maximum | |
| BOD ₅ | 30 | 45 | 35 IAC 304.120 40 CFR 133.102 |
| Suspended Solids | 30 | 45 | 35 IAC 304.120 40 CFR 133.102 |
| pH | Shall be in the Range of 6 to 9 Standard Units | | 35 IAC 304.125 |
| Fecal Coliform | Daily Maximum Shall Not exceed 400 per 100 mL | | 35 IAC 304.121 |
| Chlorine Residual | Shall be in the range of 0.2 and 1.5 mg/L | | 35 IAC 302.208 |

**Antidegradation Assessment Review for Khalil Takla – Single Family Septic System
NPDES Permit No. IL0080169 Will County**

Kahlil Takla ("Applicant") has applied for a permit for an individual private sewage treatment system. The Applicant's property consists of a home with an existing failed septic system. The property is located at 15425 Purley Court, Homer Glen, Illinois. The new system will discharge wastewater above the ground surface or directly to surface water. Permits for the design and installation of the treatment system are also required from the Illinois Department of Public Health or their authorized agent. The effluent from the treatment system is intermittent in nature, of which discharge is dictated by water use in the dwelling or by batch treatment of effluent.

Identification and Characterization of the Affected Water Body

Generally, but not exclusively, small intermittent streams, ravines, and ditches are the receiving waters for discharges from residential sewage treatment systems, because homes are likely to be located closer to these waters rather than large rivers, streams, ponds, or lakes. The treatment system will discharge to an unnamed tributary of Long Run, a General Use Water, at a point where 0 cfs of flow exists during 7Q10 low-flow conditions. The unnamed tributary of Long Run is not listed as a biologically significant stream in the 2008 Illinois Department of Natural Resources Publication *Integrating Multiple Taxa in a Biological Stream Rating System* or given an integrity rating in that document. The unnamed tributary of Long Run, a tributary to Waterbody Segment IL_GHE-01, is not listed on the draft 2016 Illinois Integrated Water Quality Report and Section 303(d) List as impaired since it has not been assessed. The unnamed tributary of Long Run is not subject to enhanced dissolved oxygen standards.

Identification of Proposed Pollutant Load Increases or Potential Impacts on Uses

The treatment system will be capable of meeting and will receive effluent limits of 30 mg/L for both BOD and total suspended solids on a yearly average basis. Fecal coliform bacteria may not exceed 400 mg/L in the effluent and to achieve this, between 0.2 and 1.5 mg/L total residual chlorine must be maintained in the discharged effluent. Treatment of the nitrogen and phosphorus in the effluent is not technically or economically feasible for the Applicant

BOD, TSS, ammonia, and phosphorus may increase in the receiving stream because of the discharge. Given the specific limits for flowing waters vs. impounded waters and the low volume involved, no impact on the use of the receiving water is anticipated.

Fate and Effect of Parameters Proposed for Increased Loading.

The BOD and ammonia discharged by the system will decay into simpler and harmless byproducts by naturally occurring organisms in the receiving water. Some of the nitrogen originating in the ammonia remains in the stream in the form of nitrates or organic nitrogen. The nutrients discharges are absorbed by aquatic or riparian terrestrial plants or remain in the stream.

Given the low volume of effluent discharged from the system, chlorine will dissipate upon interaction with either the dry bed of the receiving water or, will be diluted with and also react with, water already in the stream or ditch. Water quality standards for chlorine will be met after this interaction. Given the chlorination requirement specified in the permit, fecal coliform bacteria standards are likely to be met in receiving

water.

Purpose and Anticipated Benefits of the Proposed Activity

Residences located in areas distant from sewage collection systems and where soils have insufficient percolation to support conventional ground discharging septic tank systems often have no alternative but to rely on surface discharging individual sewage treatment systems. These systems, when subject to the restrictions mandated by the permit, allow for safe and effective disposal of sewage, thereby benefiting residents of rural areas and small towns that lack sewer systems.

Assessments of Alternatives for Less Increase in Loading or Minimal Environmental Degradation

Designers of individual sewage treatment systems must seek to minimize the amount of effluent discharged to the ground surface or receiving waters, which includes the necessary soil tests to determine if adequate percolation exists for a ground discharge-only system. At this location, it was determined to be technically infeasible to install a subsurface seepage system. Upon the determination that soils are inadequate for conventional septic tank and lateral tile systems, the Applicant is obligated to provide as much opportunity as practicable for the effluent to be absorbed into the ground by use of trenches, tiles and grassed swales, to minimize the amount of effluent reaching the receiving water.

Summary Comments of the Illinois Department of Natural Resources, Regional Planning Commissions, Zoning Boards or Other Entities

IDNR will have the opportunity to review the public notice and fact sheet containing this assessment. Any comments by IDNR or other entities received prior to the end of the public notice period will be reviewed after the public notice period and appropriate responses will be made at that time.

Agency Conclusion

This assessment was conducted pursuant to the Illinois Pollution Control Board regulation for Antidegradation found at 35 Ill. Adm. Code 302.105 (antidegradation standard). We find that the proposed activity will result in the attainment of water quality standards. All existing uses will be fully protected. All technically and economically reasonable measures to avoid or minimize the extent of the proposed increase in pollutant loading have been incorporated into the proposed activity. The permit for an individual sewage treatment system will benefit the community at large by providing a means for the Illinois EPA to efficiently regulate the system. The proposed activity is therefore compliant with the Antidegradation standard.

This draft Permit also contains the following requirements as special conditions:

1. Reopening of this Permit to include different final effluent limitations.
2. Submission of the operational data in a specified form and at a required frequency at any time during the effective term of this Permit
3. More frequent monitoring requirement without Public Notice in the event of operational, maintenance or other problems resulting in possible effluent deterioration.
4. Prohibition against causing or contributing to violations of water quality standards.
5. Effluent sampling point location.
6. Reopening of this Permit to include revised effluent limitations based on a Total Maximum Daily Load (TMDL) or other water quality study.
7. Permittee shall comply with all conditions of the permit and other applicable laws, regulations or ordinances.
8. Information on construction, operation and maintenance.
9. Proof of ongoing maintenance agreement.
10. Use of approved chlorine tablets.
11. Discharge of hazardous pollutants, toxic wastes and wastes that causes a violation of an applicable water quality standard not authorized.
12. Operation and maintenance manual and all applicable records must be available. Sampling ports must be accessible.
13. Soil Design groups II through XI, and Soil Groups 7G, 7J, 7L, 8E, and 8I within Design Group XII.
14. Transfer or termination of permit coverage.

NPDES Permit No. IL0080169

Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

New (NPDES) Permit

Expiration Date:

**Issue Date:
Effective Date:**

Name and Address of Permittee:

Khalil Takla
15425 Purley Court
Homer Glen, Illinois 60491

Facility Name and Address:

Takla Residence Private Sewage Disposal System
15425 Purley Court
Homer Glen, Illinois
(Will County)

Receiving Waters: Unnamed tributary of the Long Run

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of the Ill. Adm. Code, Subtitle C, Chapter I, and the Clean Water Act (CWA), the above-named Permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the Effluent Limitations, Monitoring, and Reporting requirements; Special Conditions and Attachment H Standard Conditions attached herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the Permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Amy L. Dragovich, P.E.
Manager, Permit Section
Division of Water Pollution Control

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NPDES Permit No. IL0080169

Effluent Limitations, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): 001 Outfall

From the effective date of this Permit until the expiration date, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

| Parameter | CONCENTRATION LIMITS (mg/L) | | Sample Frequency** | Sample Type |
|----------------------|--|---------------|--------------------|-------------|
| | Yearly Average | Daily Maximum | | |
| Flow (MGD)* | | | | |
| BOD ₅ | 30 | 45 | | Grab |
| Suspended Solids | 30 | 45 | | Grab |
| pH | Shall be in the Range of 6 to 9 Standard Units | | | Grab |
| Fecal Coliform | Daily Maximum Shall Not exceed 400 per 100 mL | | | Grab |
| Chlorine Residual*** | Shall be in the range of 0.2 and 1.5 mg/L | | | Grab |

*Flow is to be reported as the amount that is discharged in a day (24 hrs), expressed as the average daily discharge occurring over a calendar year. Flow may be estimated from direct visual readings, mechanical flow measurement, or water use records and may not exceed 1500 gallons per day or the permitted capacity as authorized by the Illinois Environmental Protection Agency (IEPA).

**See Special Condition 9.

***Sampling for chlorine residual is only required when chlorine is used for disinfection.

Special Conditions

SPECIAL CONDITION 1. This Permit may be modified to include different final effluent limitations or requirements which are consistent with applicable laws and regulations. The IEPA will public notice the permit modification.

SPECIAL CONDITION 2. The IEPA may request in writing submittal of operational information in a specified form and at a required frequency at any time during the effective period of this Permit.

SPECIAL CONDITION 3. The IEPA may request more frequent monitoring by permit modification pursuant to 40 CFR § 122.63 and Without Public Notice.

SPECIAL CONDITION 4. The effluent, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard outlined in 35 Ill. Adm. Code 302 and 303.

SPECIAL CONDITION 5. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

SPECIAL CONDITION 6. This Permit may be modified to include alternative or additional final effluent limitations pursuant to an approved Total Maximum Daily Load (TMDL) study or upon completion of an alternate water quality study.

SPECIAL CONDITION 7. The permittee shall comply with all conditions of this Permit, all applicable IEPA regulations, Illinois Department of Public Health (IDPH) sewage code requirements and all other applicable federal, state, or local laws, regulations or ordinances. Any noncompliance constitutes a violation of the Clean Water Act and the Code of Illinois and is grounds for enforcement action, termination of coverage under this Permit, or for denial of a request for coverage under a reissued permit.

SPECIAL CONDITION 8. Upon request, the permittee shall furnish to the IDPH or the local administrative authority any information relative to the construction, operation, or maintenance of this facility, including effluent sample tests results, within the time period specified by the IDPH or the local administrative authority.

SPECIAL CONDITION 9.

- A. The permittee shall have the individual discharging treatment system whose discharge is covered by this permit inspected at least once a year, during the month indicated in the letter of authorization. The inspection must be conducted by a qualified individual with sufficient training to ensure that permit requirements are met. Qualified individuals include trained and experienced wastewater treatment plant operators, licensed environmental health practitioners, Illinois Department of Public Health licensed Private Sewage Disposal System Installation Contractors, individuals holding the basic or advanced Certified Installer of Onsite Wastewater Treatment System certification, and Illinois licensed professional engineers. The Owner or Operator is responsible for assuring that this provision is fulfilled. During the inspection, a representative sample shall be collected, properly preserved, and analyzed by a certified laboratory for BOD₅, Suspended Solids, pH, fecal coliform, and chlorine residual. Any nuisance, health hazard, equipment malfunction or deficiency noted on the inspection report, shall be addressed and corrective action taken within 30 days.
- B. The permittee shall submit copies of the inspection report and results of any effluent monitoring report pursuant to Special Condition 9.A to the Agency. The inspection and monitoring report shall be submitted annually by the 20th day of the month specified by the Agency. The Permittee is required to submit electronic DMRs (NetDMRs) instead of mailing paper DMRs to the IEPA unless a waiver has been granted by the Agency. More information, including registration information for the NetDMR program, can be obtained on the IEPA website, <https://www2.illinois.gov/epa/topics/water-quality/surface-water/netdmr/pages/quick-answer-guide.aspx>. Permittees that have been granted a waiver shall mail the Discharge Monitoring Reports with an original signature to the IEPA at the following address. The reports shall be submitted to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section,
Discharge Monitoring Reports, Mail Code #19

Special Conditions

- C. Upon request of either the IDPH or local administrative authority, inspection reports shall be provided to that authority. Otherwise the system owner is responsible to maintain all such records on site or electronically, and have such records available for review by any authorized IEPA, IDPH or local/county health administrator.

SPECIAL CONDITION 10. If chlorine tablets are used for disinfection, then only those tablets approved for use in disinfection of wastewater shall be utilized.

SPECIAL CONDITION 11. This permit does not authorize discharge of any effluent which contains any hazardous pollutant, toxic waste, waste that causes a violation of an applicable water quality standard, any waste which is considered a nuisance or health hazard, stormwater, grease, oil or solvents, car wash facility, hair salon, photographic laboratory, medical facility, facility that generates automotive waste, or any substance other than domestic wastewater.

SPECIAL CONDITION 12. The operation and maintenance manual and all records including installation, inspection and sampling shall be available during an inspection of the facility. The sampling port or free fall discharge shall be readily accessible during an inspection. A Permittee associated with a food service establishment, with a grease trap, shall make the grease trap readily accessible during an inspection.

SPECIAL CONDITION 13. A surface discharge is prohibited from systems installed in Soil Design Groups II through XI, and Soil Groups 7G, 7J, 7L, 8E, and 8I within Design Group XII as the groups are defined in 77 Ill. Adm. Code 905.

SPECIAL CONDITION 14. When a treatment system covered by this permit is sold to a New Owner or when discharges to waters of the state cease because the system is removed, closed out, or because discharges are routed to a separate wastewater collection and treatment system, the permittee must submit a completed US EPA Form ILG62 Notice of Termination (NOT) to the IEPA and Illinois Department of Public Health (IDPH). The new property owner must submit a US EPA Form ILG62 Simplified Notice of Intent (NOI).

The US EPA Form ILG62 Simplified NOI and US EPA Form ILG62 NOT are available here:
<https://www.epa.gov/sites/production/files/2017-01/documents/final-illinois-npdes-general-permit-20131231.pdf>.

The US EPA Form ILG62 Simplified NOI or US EPA Form ILG62 NOT must be filed with IEPA and IDPH at the following addresses:

Illinois Environmental Protection Agency
1021 North Grand East
Post Office Box 19276
Springfield, Illinois 62794-9276

Illinois Department of Public Health
Division of Environmental Health
525 West Jefferson
Springfield, Illinois 62761