



State Pollutant Discharge Elimination System (SPDES) DISCHARGE PERMIT

Industrial Code:	7539	SPDES Number:	NY 012 8783
Discharge Class (CL):	04	DEC Number:	5-1554-00013/02001
Toxic Class (TX):	N	Effective Date (EDP):	EDP
Major Drainage Basin:	10	Expiration Date (ExDP):	ExDP
Sub Drainage Basin:	04	Modification Dates: (EDPM)	
Water Index Number:	GA		
Compact Area:			

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act, as amended, (33 U.S.C. ' 1251 et.seq.)(hereinafter referred to as "the Act").

PERMITTEE NAME AND ADDRESS			
Name:	Olympic Regional Development Authority	Attention:	CEO/President
Street:	Olympic Center		
City:	Lake Placid	State:	NY Zip Code: 12946

is authorized to discharge from the facility described below:

FACILITY NAME AND ADDRESS			
Name:	Whiteface Mountain Ski Center		
Location (C,T,V):	Wilmington (T)	County:	Essex
Facility Address:	5021 State Route 86		
City:	Wilmington	State:	NY Zip Code: 12983
From Outfall No.:	004	at Latitude:	44 ° 21 ' 33 '' & Longitude: 73 ° 51 ' 34 ''
into receiving waters known as:	Drainage Ditch	Class:	D

and (list other Outfalls, Receiving Waters & Water Classifications)

- Outfall 001 – Base Lodge and Bear Den Lodge, Design Flow 25,000 gpd, Groundwater, GA, flow monitoring only
- Outfall 002 – Mid-Station Lodge, Design Flow 5,600 gpd, Groundwater, GA, no monitoring requirements
- Outfall 003 – Discontinued

in accordance with: effluent limitations; monitoring and reporting requirements; other provisions and conditions set forth in this permit; and 6 NYCRR Part 750-1 and 750-2.

DISCHARGE MONITORING REPORT (DMR) MAILING ADDRESS			
Mailing Name:	Whiteface Mountain Ski Center		
Street:	5021 Route 86		
City:	Wilmington	State:	NY Zip Code: 12997
Responsible Official or Agent:	Whiteface Mountain General Manger	Phone:	(518) 946-7400

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed, or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for permit renewal not less than 180 days prior to the expiration date shown above.

DISTRIBUTION:

CO BWP - Permit Coordinator
RWE
RPA
USEPA Region 2

Permit Administrator:	Erin L. Burns, Deputy Regional Permit Administrator		
Address:	1115 State Route 86, PO Box 296, Ray Brook, NY 12977		
Signature:		Date:	/ /

PERMIT LIMITS, LEVELS AND MONITORING DEFINITIONS

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
	This cell describes the type of wastewater authorized for discharge. Examples include process or sanitary wastewater, storm water, non-contact cooling water.	This cell lists classified waters of the state to which the listed outfall discharges.	The date this page starts in effect. (e.g. EDP or EDPM)	The date this page is no longer in effect. (e.g. ExDP)

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQ.	SAMPLE TYPE
e.g. pH, TRC, Temperature, D.O.	The minimum level that must be maintained at all instants in time.	The maximum level that may not be exceeded at any instant in time.	SU, °F, mg/l, etc.	See below	See below

PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL	COMPLIANCE LEVEL / MINIMUM LEVEL (ML)	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE
	Limit types are defined below in Note 1. The effluent limit is developed based on the more stringent of technology-based limits, required under the Clean Water Act, or New York State water quality standards. The limit has been derived based on existing assumptions and rules. These assumptions include receiving water hardness, pH and temperature; rates of this and other discharges to the receiving stream; etc. If assumptions or rules change the limit may, after due process and modification of this permit, change.	For the purposes of compliance assessment, the permittee shall use the approved EPA analytical method with the lowest possible detection limit as promulgated under 40CFR Part 136 for the determination of the concentrations of parameters present in the sample unless otherwise specified. If a sample result is below the detection limit of the most sensitive method, compliance with the permit limit for that parameter was achieved. Monitoring results that are lower than this level must be reported, but shall not be used to determine compliance with the calculated limit. This Minimum Level (ML) can be neither lowered nor raised without a modification of this permit.	Action Levels are monitoring requirements, as defined below in Note 2, which trigger additional monitoring and permit review when exceeded.	This can include units of flow, pH, mass, temperature, or concentration. Examples include µg/l, lbs/d, etc.	Examples include Daily, 3/week, weekly, 2/month, monthly, quarterly, 2/yr and yearly. All monitoring periods (quarterly, semiannual, annual, etc.) are based upon the calendar year unless otherwise specified in this Permit.	Examples include grab, 24 hour composite and 3 grab samples collected over a 6 hour period.

Notes:

1. EFFLUENT LIMIT TYPES:

- a. DAILY DISCHARGE: The discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for the purposes of sampling. For pollutants expressed in units of mass, the 'daily discharge' is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the 'daily discharge' is calculated as the average measurement of the pollutant over the day.
- b. DAILY MAX: The highest allowable daily discharge.
- c. DAILY MIN: The lowest allowable daily discharge.
- d. MONTHLY AVG: The highest allowable average of daily discharges over a calendar month, calculated as the sum of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
- e. 7 DAY ARITHMETIC MEAN (7 day average): The highest allowable average of daily discharges over a calendar week.
- f. 30 DAY GEOMETRIC MEAN: The highest allowable geometric mean of daily discharges over a calendar month, calculated as the antilog of: the sum of the log of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
- g. 7 DAY GEOMETRIC MEAN: The highest allowable geometric mean of daily discharges over a calendar week.
- h. 12 MONTH ROLLING AVERAGE: The current monthly value of a parameter, plus the sum of the monthly values over the previous 11 months for that parameter, divided by 12.
- i. RANGE: The minimum and maximum instantaneous measurements for the reporting period must remain between the two values shown.

2. ACTION LEVELS: Routine Action Level monitoring results, if not provided for on the Discharge Monitoring Report (DMR) form, shall be appended to the DMR for the period during which the sampling was conducted. If the additional monitoring requirement is triggered as noted below, the permittee shall undertake a short-term, high-intensity monitoring program for the parameter(s). Samples identical to those required for routine monitoring purposes shall be taken on each of at least three consecutive operating and discharging days and analyzed. Results shall be expressed in terms of both concentration and mass, and shall be submitted no later than the end of the third month following the month when the additional monitoring requirement was triggered. Results may be appended to the DMR or transmitted under separate cover to the same address. If levels higher than the Action Levels are confirmed, the permit may be reopened by the Department for consideration of revised Action Levels or effluent limits. The permittee is not authorized to discharge any of the listed parameters at levels which may cause or contribute to a violation of water quality standards.

PERMIT LIMITS, LEVELS AND MONITORING

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
004	Maintenance Facility Floor Drain Treatment System	Drainage Ditch	EDP	BExDP

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FOOTNOTES (FN)
pH	6.0	9.0	SU	1 per Quarter	Grab	2

PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL		COMPLIANCE LEVEL/ ML	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max						
Flow	25				GPD	1 per Discharge Event	Record each Discharge	1
Oil & Grease	15				mg/l	1 per Quarter	Grab	2
MBAS	1.0				mg/l	1 per Quarter	Grab	2
Benzene				0.1	mg/l	1 per 6 months	Grab	2
Toluene				0.1	mg/l	1 per 6 months	Grab	2
Xylene				0.1	mg/l	1 per 6 months	Grab	2

FOOTNOTES:

1. Measure flow during periods of normal usage. Maintain record of discharges, maintenance activities and sampling events/results in log book.
2. Collect samples during periods of normal usage.

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MONITORING LOCATIONS

The permittee shall take samples and measurements, to comply with the monitoring requirements specified in this permit, at the locations(s) specified below:

Outfall 004:

Collect the effluent sample from the sample port following the carbon filter.

Outfall 001:

Flow meter readings shall be taken from the flow meter on the municipal water supply line.

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SCHEDULE OF COMPLIANCE

a) The permittee shall comply with the following schedule:

Outfall(s)	Parameter(s) Affected	Interim Effluent Limit(s)	Compliance Action	Due Date
001	Flow Rate	N/A	<p>The permittee shall submit an engineering evaluation, prepared by a Professional Engineer licensed to practice engineering in New York State, of the Outfall 001, and associated absorption beds, dosing siphons, and pump station.</p> <p>The purpose of this evaluation is to ensure that the capacity of the disposal system is not exceeded as a result of the increased flows and that the disposal system is adequately protective of the receiving groundwater.</p> <p>The evaluation shall compare flow rates measured at the pump station prior to Outfall 001 to the flow rates measured with the municipal water meter in order to determine if additional sources of inflows or infiltration is occurring and not presently being accounted for.</p>	EDPM + 12 months
004	All Parameters	N/A	<p>The permittee shall complete construction of the floor drain treatment system. The design of the new treatment system shall be equivalent to the originally approved plans prepared by Northwoods Engineering, PLLC and dated 12/21/2007. The outfall pipe shall daylight to the ground surface.</p>	EDPM + 6 months

The above compliance actions are one time requirements. The permittee shall comply with the above compliance actions to the Department's satisfaction once. When this permit is administratively renewed by NYSDEC letter entitled "SPDES NOTICE/RENEWAL APPLICATION/PERMIT," the permittee is not required to repeat the submission(s) noted above. The above due dates are independent from the effective date of the permit stated in the "SPDES NOTICE/RENEWAL APPLICATION/PERMIT" letter.

- b) The permittee shall submit copies of any document required by the above schedule of compliance to the NYSDEC Regional Water Engineer at the location listed under the section of this permit entitled RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS and to the Bureau of Water Permits, 625 Broadway, Albany, N.Y. 12233-3505, unless otherwise specified in this permit or in writing by the Department
- c) Following the completion of the engineering evaluation, the Department may request additional information from the Permittee. Depending on the results of the evaluation, the permit may be subject to modification.

GENERAL REQUIREMENTS

- Draft
- A. The regulations in 6 NYCRR Part 750 are hereby incorporated by reference and the conditions are enforceable requirements under this permit. The permittee shall comply with all requirements set forth in this permit and with all the applicable requirements of 6 NYCRR Part 750 incorporated into this permit by reference, including but not limited to the regulations in the following paragraphs:
- B. General Conditions
- | | |
|--|--|
| 1. Duty to comply | 6NYCRR 750-2.1(e) & 2.4 |
| 2. Duty to reapply | 6NYCRR 750-1.16(a) |
| 3. Need to halt or reduce activity not a defense | 6NYCRR 750-2.1(g) |
| 4. Duty to mitigate | 6NYCRR 750-2.7(f) |
| 5. Permit actions | 6NYCRR 750-1.1(c), 1.18, 1.20 & 2.1(h) |
| 6. Property rights | 6NYCRR 750-2.2(b) |
| 7. Duty to provide information | 6NYCRR 750-2.1(i) |
| 8. Inspection and entry | 6NYCRR 750-2.1(a) & 2.3 |
- C. Operation and Maintenance
- | | |
|-----------------------------------|-------------------------------------|
| 1. Proper Operation & Maintenance | 6NYCRR 750-2.8 |
| 2. Bypass | 6NYCRR 750-1.2(a)(17), 2.8(b) & 2.7 |
| 3. Upset | 6NYCRR 750-1.2(a)(94) & 2.8(c) |
- D. Monitoring and Records
- | | |
|---------------------------|---|
| 1. Monitoring and records | 6NYCRR 750-2.5(a)(2), 2.5(a)(6), 2.5(c)(1), 2.5(c)(2), & 2.5(d) |
| 2. Signatory requirements | 6NYCRR 750-1.8 & 2.5(b) |
- E. Reporting Requirements
- | | |
|---|----------------------------------|
| 1. Reporting requirements for non-POTWs | 6NYCRR 750-2.5, 2.6, 2.7, & 1.17 |
| 2. Anticipated noncompliance | 6NYCRR 750-2.7(a) |
| 3. Transfers | 6NYCRR 750-1.17 |
| 4. Monitoring reports | 6NYCRR 750-2.5(e) |
| 5. Compliance schedules | 6NYCRR 750-1.14(d) |
| 6. 24-hour reporting | 6NYCRR 750-2.7(c) & (d) |
| 7. Other noncompliance | 6NYCRR 750-2.7(e) |
| 8. Other information | 6NYCRR 750-2.1(f) |
- F. Sludge Management
The permittee shall comply with all applicable requirements of 6 NYCRR Part 360.
- G. SPDES Permit Program Fee
The permittee shall pay to the Department an annual SPDES permit program fee within 30 days of the date of the first invoice, unless otherwise directed by the Department, and shall comply with all applicable requirements of ECL 72-0602 and 6 NYCRR Parts 480, 481 and 485. Note that if there is inconsistency between the fees specified in ECL 72-0602 and 6 NYCRR Part 485, the ECL 72-0602 fees govern.
- H. Disposal Systems with Septic Tanks
The permittee shall comply with all requirements of 6 NYCRR Part 750-2.8(d) and keep septic tanks properly maintained.

RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

- A. The monitoring information required by this permit shall be summarized, signed and retained for a period of at least five years from the date of the sampling for subsequent inspection by the Department or its designated agent. **Also, monitoring information required by this permit shall be summarized and reported by submitting;**

(if box is checked) completed and signed Discharge Monitoring Report (DMR) forms for each ____ month reporting period to the locations specified below. Blank forms are available at the Department's Albany office listed below. The first reporting period begins on the effective date of this permit and the reports will be due no later than the 28th day of the month following the end of each reporting period.

(if box is checked) an annual report to the Regional Water Engineer at the address specified below. The annual report is due by February 1 each year and must summarize information for January to December of the previous year in a format acceptable to the Department.

(if box is checked) a monthly "Wastewater Facility Operation Report..." (form 92-15-7) to the:

Regional Water Engineer and/or County Health Department or Environmental Control Agency specified below

Send the **Annual Report** to:

Department of Environmental Conservation
Regional Water Engineer, Region 5
1115 NYS Route 86, PO Box 296
Ray Brook, NY 12977

Phone: (518) 897-1241

- B. Monitoring and analysis shall be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
- C. More frequent monitoring of the discharge(s), monitoring point(s), or waters of the State than required by the permit, where analysis is performed by a certified laboratory or where such analysis is not required to be performed by a certified laboratory, shall be included in the calculations and recording of the data on the corresponding DMRs.
- D. Calculations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.
- E. Unless otherwise specified, all information recorded on the DMRs shall be based upon measurements and sampling carried out during the most recently completed reporting period.
- F. Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approval pursuant to section 502 of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be directed to the New York State Department of Health, Environmental Laboratory Accreditation Program.

SPDES Permit Statement of Basis – Groundwater Discharges

Permittee: Olympic Regional Development Authority
Facility: Whiteface Mountain Ski Center
SPDES No: NY 012 8783

Date: December 12, 2017
Permit Writer: Thomas Waite, EIT

I. SUMMARY OF PROPOSED PERMIT CHANGES

A State Pollutant Discharge Elimination System (SPDES) permittee-initiated modification is proposed. Following is a summary of the proposed changes in the draft permit as compared to the currently effective permit, the details of these changes are specified below and in the draft permit:

Outfall 001:

- A flow monitoring requirement was added for Outfall 001 to monitor monthly average flows.
- A schedule of compliance was added to provide an engineering evaluation of Outfall 001. Evaluation is due 12 months from the modification date of the permit.

Outfall 002:

- Design flow for Outfall 002 – Mid-station Lodge has been increased from 5,350 GPD to 5,600 GPD to reflect upgrades to the wastewater system that are expected to be completed during the summer of 2018.

Outfall 004:

- Outfall 004 has been changed from a groundwater discharge to a surface water discharge.
- A schedule of compliance was added to complete the construction of the floor drain treatment system and to modify the outfall structure to form a surface water discharge.

Please note that when the Department updates a permit this typically includes updated forms incorporating the latest general conditions.

II. BACKGROUND INFORMATION

As noted throughout this document, SPDES permits are based on both federal and state requirements including laws, regulations, policies, and guidance. These references can generally be found on the internet. Current locations include:

Environmental Conservation Law (ECL) www.dec.ny.gov/regulations/40195.html;

State environmental regulations www.dec.ny.gov/regulations/regulations.html;

NYSDEC water policy www.dec.ny.gov/regulations/2654.html;

Permit requirements are typically based on the previous permit (if applicable) and on 6 NYCRR Parts 700-705 and 750, and guidance provided in TOGS 1.1.1, 1.2.1 and 1.3.3.

A. Administrative History

The current SPDES permit for the facility became effective on December 31, 2014 and has an expiration date of November 30, 2024.

On October 27, 2017, the permittee submitted an NY-2C application and accompanying engineering report to modify the permit for the reason(s): Add additional septic tank with oil and grease interceptor in order to serve the proposed Bear Den Lodge Addition. An increase in flow of 2,067 gpd to Outfall 001 is expected as a result of the addition.

SPDES Permit Statement of Basis – Groundwater Discharges

Permittee: Olympic Regional Development Authority
Facility: Whiteface Mountain Ski Center
SPDES No: NY 012 8783

Date: December 7, 2017
Permit Writer: Thomas Waite, EIT

On October 6, 2017, an additional engineering report was received by the Department on behalf of the permittee for a proposal to add additional septic tanks and grease interceptor in order to serve upgrades at the Base Lodge. An increase in flow of 2,750 gpd to Outfall 001 is expected as a result of the upgrades.

B. Outfall and Receiving Water Information

The facility discharges, or proposes to discharge, wastewater and/or stormwater to waters of the state via the following outfalls:

Outfall 001 – Sanitary sewerage from the Base Lodge and Bear Den Lodge. Design Flow is 25,000 gpd to groundwater. Treatment consists of septic tanks followed by a dosed absorption system constructed circa 1977. Pumping is required to convey the sewage from the facilities to the absorption bed, which is located across the Ausable River. The river crossing consists of a gravity sewer line located beneath the access bridge.

Outfall 002 – Sanitary sewerage from the Mid-station Lodge. Design flow is 5,600 gpd to groundwater. Treatment consists of septic tanks followed by a dosed absorption system. A new absorption system will be built to replace the existing “bee-hive” system and to allow for gravity conveyance of the septic tank effluent to the new absorption field. The existing pump station will be converted into a septic tank.

Outfall 003 – This outfall formerly served the “Kid’s Kampus” and has since been discontinued. Sewerage formerly served by this outfall is now conveyed to Outfall 001.

Outfall 004 – Industrial sewerage from floor drains at the maintenance garage. Design flow is 25 gpd. Treatment formerly consists of an underground oil/water separator which discharged directly to the ground. This tank has since been removed. A new system is under construction, which will consist of an above ground oil/water separator followed by sand and carbon filtration. The effluent will be conveyed by an underground pipe and will discharge to the ground surface.

D. Compliance History

A review of the facility’s Annual Reports and other published compliance information from 2014 to 2017 indicates that the facility had the following violations:

- The Department has not received any annual reports for 2014, 2015, and 2016. None of the required monitoring or reporting has been conducted.
- The Department approved treatment system, which was approved in 2009 and was to consist of a new oil/water separator followed by sand and carbon filtration, was never built. The existing oil/water separator was in place prior to being permitted and is not adequate to provide consistently good treatment of floor drain wastewater.

III. PROPOSED PERMIT REQUIREMENTS

Sections 101, 301(b), 304, 308, 401, 402, and 405 of the CWA and Titles 5, 7, and 8 of Article 17 ECL provide the basis for the effluent limitations and other conditions in the draft permit. The NYSDEC evaluates discharges with respect to these sections of the CWA, ECL, and the relevant federal/state regulations, policy, and guidance to determine which conditions to include in the draft permit.

For existing permittees, the previous permit typically forms the basis for the next permit. Permit revisions are implemented where justified due to changed conditions at the facility and/or in response to updated regulatory requirements.

A. Monitoring & Reporting Requirements

CWA section 308, 40 CFR 122.44(i), and 6 NYCRR Part 750-1.13 require that monitoring be included in permits to determine compliance with effluent limitations. Additional effluent monitoring may also be required to gather data to

SPDES Permit Statement of Basis – Groundwater Discharges

Permittee: Olympic Regional Development Authority
Facility: Whiteface Mountain Ski Center
SPDES No: NY 012 8783

Date: December 7, 2017
Permit Writer: Thomas Waite, EIT

determine if effluent limitations may be required. The permittee is responsible for conducting the monitoring and for reporting results on DMRs. The permit contains the monitoring requirements for the facility. Monitoring frequency is based on the minimum sampling necessary to adequately monitor the facility's performance. For industrial facilities, sampling frequency is based on guidance provided in TOGS 1.2.1.

Outfall 001 – Basis for Adding Flow Monitoring Requirement:

Outfall 001 was originally constructed circa 1977. The Design Flow was 25,000 GPD as stated in the original SPDES application form. No other outfalls were yet constructed or proposed. The design flow has been rolled over from previous permits and the current design flow remains 25,000 GPD. This value was likely sized to meet the upcoming 1980 Olympics.

However, according to the plans available, the existing system consists of two absorption beds, each about 100' by 95', with a total surface area of 19,000 ft². The beds were intended to be dosed with a dosing siphons.

In order to construct the beds, some grading of the existing topography was required resulting in a portion of the beds built on fill soil from the site. Generally the soils are a brown sand. Percolation tests conducted prior to building the beds resulted in perc rates of 9 min, 11 min and 41 min in the vicinity of where the beds were constructed. It appears that the final placement of the beds was shifted westward slightly to take advantage of more favorable soils in that direction. Using Table E-1 in *NYS Design Standards for Intermediate Sized Systems, 2014*, a recommended application rate would be 0.8 gpd/ft² assuming an average perc rate between 11 and 15 min within the bed area.

At this application rate, the two beds would have a combined capacity of 15,200 gpd.

At the design flow rate, the proposed absorption beds (then called *leech fields*), were to have an intended sewage application rate of 1.3 gpd/ft². This might have been justified by the fact that the beds were to be periodically dosed with the dosing siphons, and that the facility was to be operated seasonally. The actual soil conditions observed after grading the site may also have justified the higher application rate.

Present flow rates to Outfall 001 is estimated using provided water usage data. Flows range from 3,000 gpd to 18,000 gpd with an average flow rate during the peak month of 10,400 gpd. With the proposed changes, the new flow rate is anticipated to be an average of 15,217 gpd. The new peak flow is expected to be > 22,337 gpd.

Although the expected future flows remain below the original design capacity of the absorption fields, the calculated application rate will exceed the recommended application rates provided by the most up-to-date design standards for the underlying soils. Further, the Department recognizes that there is a difference between how much water a given soil can absorb without becoming saturated versus the amount that the soil can receive safely without harming the receiving groundwater. For these reasons, flow monitoring is proposed to be added in order to more accurately gage the actual loading to the absorption system. Considering that the permittee already monitors water usage at its facilities, this new requirement is not expected to pose any additional hardship.