



NYC Water Charges

NYCHA (Admin) Manual

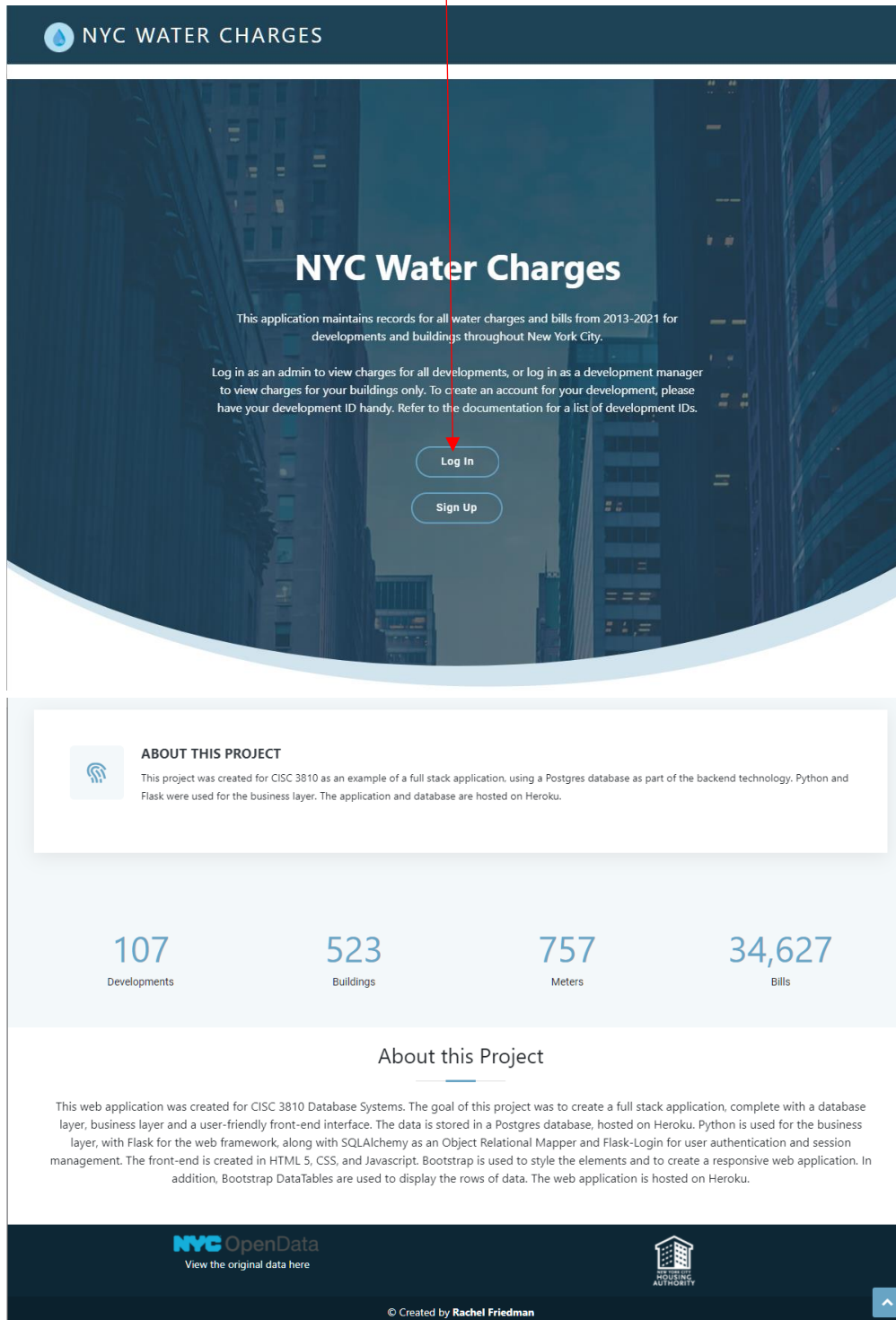
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Login (NYCHA Users)

Log In with the following credentials:

- Username: admin
- Password: nycha



NYC WATER CHARGES

NYC Water Charges

This application maintains records for all water charges and bills from 2013-2021 for developments and buildings throughout New York City.

Log in as an admin to view charges for all developments, or log in as a development manager to view charges for your buildings only. To create an account for your development, please have your development ID handy. Refer to the documentation for a list of development IDs.

[Log In](#)

[Sign Up](#)

ABOUT THIS PROJECT


This project was created for CISC 3810 as an example of a full stack application, using a Postgres database as part of the backend technology. Python and Flask were used for the business layer. The application and database are hosted on Heroku.

107	523	757	34,627
Developments	Buildings	Meters	Bills

About this Project

This web application was created for CISC 3810 Database Systems. The goal of this project was to create a full stack application, complete with a database layer, business layer and a user-friendly front-end interface. The data is stored in a Postgres database, hosted on Heroku. Python is used for the business layer, with Flask for the web framework, along with SQLAlchemy as an Object Relational Mapper and Flask-Login for user authentication and session management. The front-end is created in HTML 5, CSS, and Javascript. Bootstrap is used to style the elements and to create a responsive web application. In addition, Bootstrap DataTables are used to display the rows of data. The web application is hosted on Heroku.

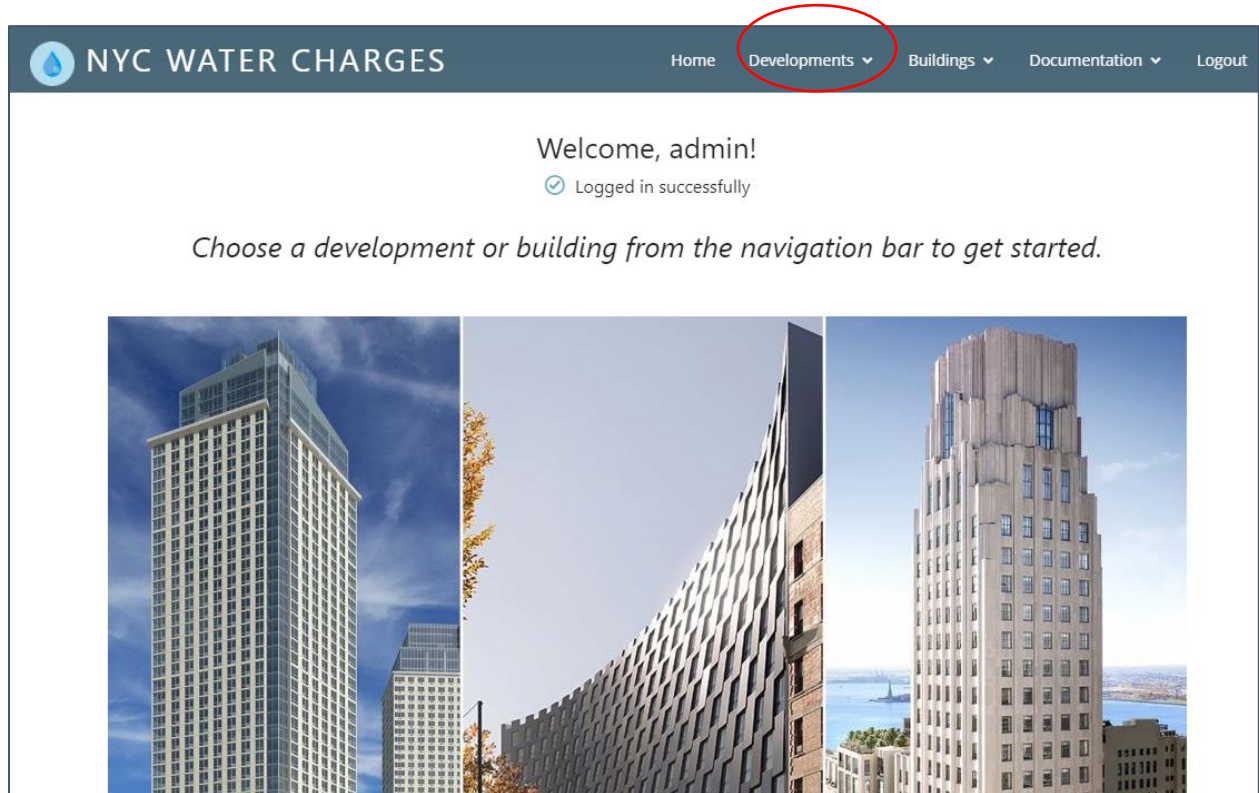
NYC OpenData
View the original data here

 **NEW YORK CITY
Housing
AUTHORITY**

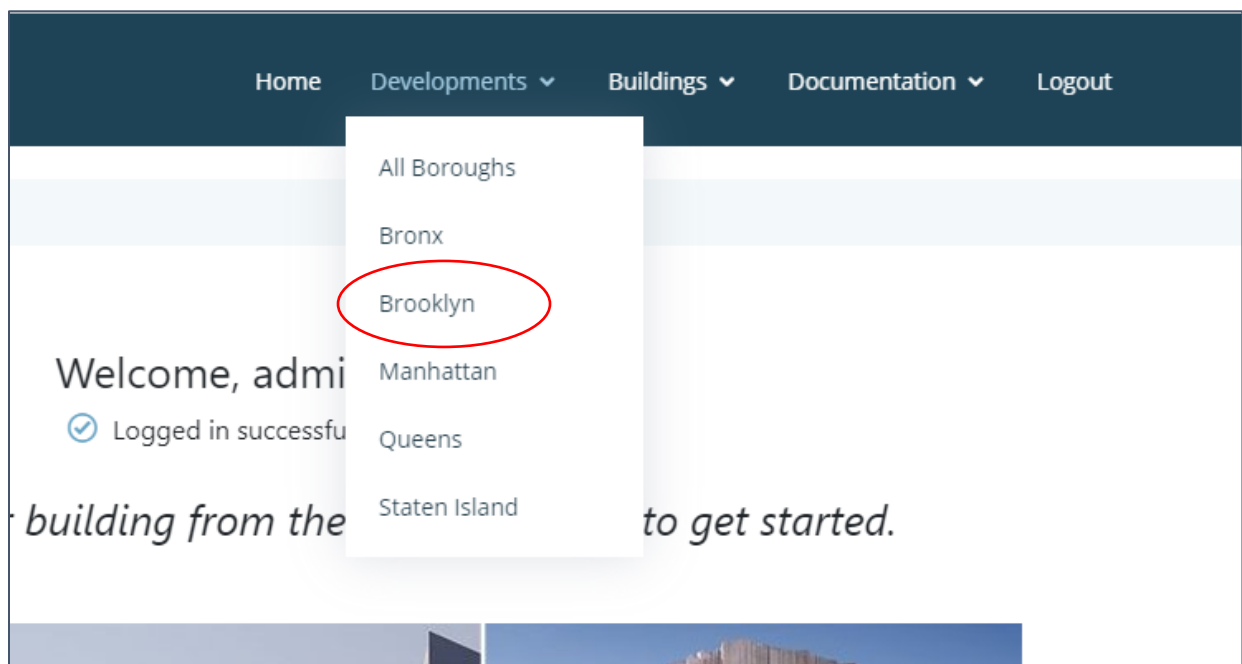
© Created by Rachel Friedman

View Developments and Buildings (NYCHA Users)


1. Click on **Developments** (or Building) from the navigation bar.



2. Choose a borough. (Due to space constraints, only **Brooklyn** data is available at this point.)



3. You will be presented with a list of all developments in that borough.

**NYC WATER CHARGES**

HomeDevelopments ▼Buildings ▼Documentation ▼Logout


Developments

Home / Developments / BROOKLYN

List of Developments

Borough: *BROOKLYN*


✓ Logged in as: admin



Search:

Dev ID	Name	Borough	TDS	EDP	AMP
2	ARMSTRONG I	BROOKLYN	210	325	NY00501210
4	BAY VIEW	BROOKLYN	92	670	NY00502092
5	BELMONT-SUTTER AREA	BROOKLYN	345	761	NY00501046
6	BERRY STREET-SOUTH 9TH STREET	BROOKLYN	357	777	NY00501131
9	BOULEVARD	BROOKLYN	46	637	NY00502046
12	BUSHWICK II (GROUPS A & C)	BROOKLYN	302	565	NY00501247
13	BUSHWICK II (GROUPS B & D)	BROOKLYN	303	566	NY00501247

4. Click on a development to see a list of buildings owned by that development.

**NYC WATER CHARGES**

HomeDevelopments ▼Buildings ▼Documentation ▼

Buildings


Home / Developments / BROOKLYN / Development: FENIMORE-LEFFERTS / Buildings

List of Buildings

Borough: *BROOKLYN*

Development: *FENIMORE-LEFFERTS* Development ID: 25

✓ Logged in as: admin



Search:

Development	Bldg ID	Location	Charges	RC Code
FENIMORE-LEFFERTS	57	BLD 01	View charges	K020500
FENIMORE-LEFFERTS	58	BLD 02	View charges	K020500
FENIMORE-LEFFERTS	59	BLD 03	View charges	K020500
FENIMORE-LEFFERTS	60	BLD 04	View charges	K020500
FENIMORE-LEFFERTS	61	BLD 05	View charges	K020500
FENIMORE-LEFFERTS	62	BLD 06	View charges	K020500
FENIMORE-LEFFERTS	63	BLD 07	View charges	K020500
FENIMORE-LEFFERTS	64	BLD 08	View charges	K020500

View Charges (NYCHA User)

1. When viewing a list of buildings, click on **View charges** to view charges associated with that building.

The screenshot shows the 'WATER CHARGES' application interface. The header includes navigation links: Home, Developments, Buildings, and Documentation. The breadcrumb trail is: Home / Developments / BROOKLYN / Development: FENIMORE-LEFFERTS / Buildings. The left sidebar shows 'Buildings' and 'FENIMORE-LEFFERTS Development'. The main content area displays a table of buildings with columns: Development, Bldg ID, Location, Charges, and RC Code. The 'Charges' column for BLD 03 contains a blue link 'View charges' which is circled in red.

Development	Bldg ID	Location	Charges	RC Code
FENIMORE-LEFFERTS	57	BLD 01	View charges	K020500
FENIMORE-LEFFERTS	58	BLD 02	View charges	K020500
FENIMORE-LEFFERTS	59	BLD 03	View charges	K020500

2. As a NYCHA/admin user, you are able to **delete** a bill, or **edit** a charge.

The screenshot shows the 'NYC WATER CHARGES' application interface. The header includes navigation links: Home, Developments, Buildings, and Documentation. The breadcrumb trail is: Home / Developments / BROOKLYN / Development: FENIMORE-LEFFERTS / Building. The left sidebar shows 'Charges' and 'Charges for BLD 03'. The main content area displays a table of charges with columns: Bill ID, Building, Revenue Month, Start, End, and Charges. The 'Charges' column contains a delete icon (trash can) and an edit icon (pencil). Red arrows point to these icons for the first row (Bill ID 2087).

Bill ID	Building	Revenue Month	Start	End	Charges
2087	BLD 03	2020-04	2020-03-23	2020-04-23	\$124.01
2086	BLD 03	2020-03	2020-02-24	2020-03-23	\$134.34
2085	BLD 03	2020-02	2020-01-27	2020-02-24	\$919.73
2084	BLD 03	2020-01	2020-01-05	2020-01-27	\$992.07
2083	BLD 03	2019-12	2019-12-23	2020-01-05	\$103.34
2082	BLD 03	2019-12	2019-11-24	2019-12-23	\$155.01
2081	BLD 03	2019-11	2019-10-22	2019-11-24	\$134.34

Delete a Bill (NYCHA User)

1. After viewing the list of charges, click on the **Delete** symbol next to the Bill ID.

NYC WATER CHARGES Home Developments Buildings About This Project Logout

Charges [Home](#) / [Developments](#) / [BROOKLYN](#) / [Development: BELMONT-SUTTER AREA](#) / [Building: BLD 01](#)

Charges for BLD 01
Borough: BROOKLYN
Development: BELMONT-SUTTER AREA
Logged in as: admin

Search:

Bill ID	Building	Meter	Revenue Month	Start	End	Charges	Days
3411	BLD 01	K14211460	2015-08	2015-07-22	2015-08-20	\$6,295.72	29
3410	BLD 01	K14211460	2015-07	2015-06-18	2015-07-22	\$8,207.56	34
3409	BLD 01	K14211460	2015-06	2015-05-20	2015-06-18	\$6,612.27	29
3408	BLD 01	K14211460	2015-05	2015-04-21	2015-05-20	\$4,494.43	29
3407	BLD 01	K14211460	2015-04	2015-03-22	2015-04-21	\$4,676.50	30
3406	BLD 01	K14211460	2015-03	2015-02-22	2015-03-22	\$5,040.66	28
3405	BLD 01	K14211460	2015-02	2015-01-22	2015-02-22	\$5,701.89	31
3404	BLD 01	K14211460	2015-01	2014-12-21	2015-01-22	\$5,663.55	32
3403	BLD 01	K14211460	2014-12	2014-11-23	2014-12-21	\$5,529.39	28
3402	BLD 01	K14211460	2014-11	2014-10-22	2014-11-23	\$6,612.27	32

2. Press OK to confirm that you wish to delete, or Cancel if you wish to cancel.

WATER CHARGES Buildings Documentati

nyc-water-consumption.herokuapp.com says
Are you sure you want to delete Bill #2082?
OK Cancel

[Home](#) / [Developments](#) / [BROOKLYN](#) / [Development: FENIMORE-LEFFERTS](#) / B

or BLD 03
BROOKLYN
Development: FENIMORE-LEFFERTS
s: admin

Search:

Bill ID	Building	Meter	Revenue Month	Start	End
2087	BLD 03	E20453242	2020-04	2020-03-23	2020-04-23
2086	BLD 03	E20453242	2020-03	2020-02-24	2020-03-23
2085	BLD 03	E20453242	2020-02	2020-01-27	2020-02-24

- 3. An alert will appear on your screen, informing you that the bill was deleted. That bill will no longer appear in the list of charges.

NYC WATER CHARGES

Bill#2082 was successfully deleted.

Charges

Home / Developments /

Charges for BLD 03

Borough: BROOKLYN

Development: FENIMORE-LEFFERTS


✓ Logged in as: admin



Bill ID	Building	Me
2087	BLD 03	E204
2086	BLD 03	E204

Edit a Charge (NYCHA User)

1. Click on the Edit symbol next to the charge to edit the charge.

**NYC WATER CHARGES**

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Charges


[Home](#) / [Developments](#) / [BROOKLYN](#) / [Development: BELMONT-SUTTER AREA](#) / [Building: BLD 01](#)

Charges for BLD 01

Borough: BROOKLYN

Development: BELMONT-SUTTER AREA

Logged in as: admin



Search:

Bill ID	Building	Meter	Revenue Month	Start	End	Charges	Days
3411	BLD 01	K14211460	2015-08	2015-07-22	2015-08-20	\$6,295.72	29
3410	BLD 01	K14211460	2015-07	2015-06-18	2015-07-22	\$8,207.56	34
3409	BLD 01	K14211460	2015-06	2015-05-20	2015-06-18	\$6,612.27	29
3408	BLD 01	K14211460	2015-05	2015-04-21	2015-05-20	\$4,494.43	29
3407	BLD 01	K14211460	2015-04	2015-03-22	2015-04-21	\$4,676.50	30
3406	BLD 01	K14211460	2015-03	2015-02-22	2015-03-22	\$5,040.66	28
3405	BLD 01	K14211460	2015-02	2015-01-22	2015-02-22	\$5,701.89	31
3404	BLD 01	K14211460	2015-01	2014-12-21	2015-01-22	\$5,663.55	32
3403	BLD 01	K14211460	2014-12	2014-11-23	2014-12-21	\$5,529.39	28
3402	BLD 01	K14211460	2014-11	2014-10-22	2014-11-23	\$6,612.27	32

2. Enter the amount of the new charge.

CHARGE

nyc-water-consumption.herokuapp.com says

Enter amount of new balance for Bill #2087


355.99

OK Cancel

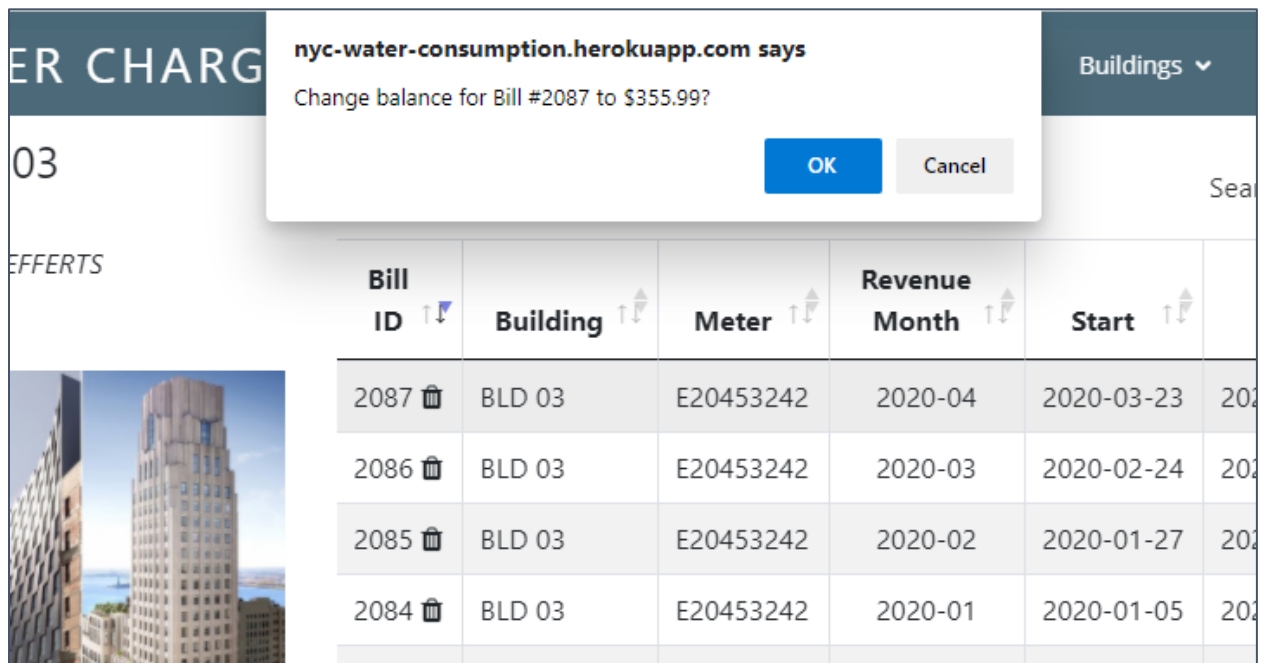
[Buildings](#) [Documentation](#) [Logout](#)

Search:

ID	Building	Meter	Month	Start	End	Charges
2087	BLD 03	E20453242	2020-04	2020-03-23	2020-04-23	\$124.01
2086	BLD 03	E20453242	2020-03	2020-02-24	2020-03-23	\$134.34
2085	BLD 03	E20453242	2020-02	2020-01-27	2020-02-24	\$919.73
2084	BLD 03	E20453242	2020-01	2020-01-05	2020-01-27	\$992.07
2083	BLD 03	E20453242	2019-12	2019-12-23	2020-01-05	\$103.34
2081	BLD 03	E20453242	2019-11	2019-10-22	2019-11-24	\$134.34



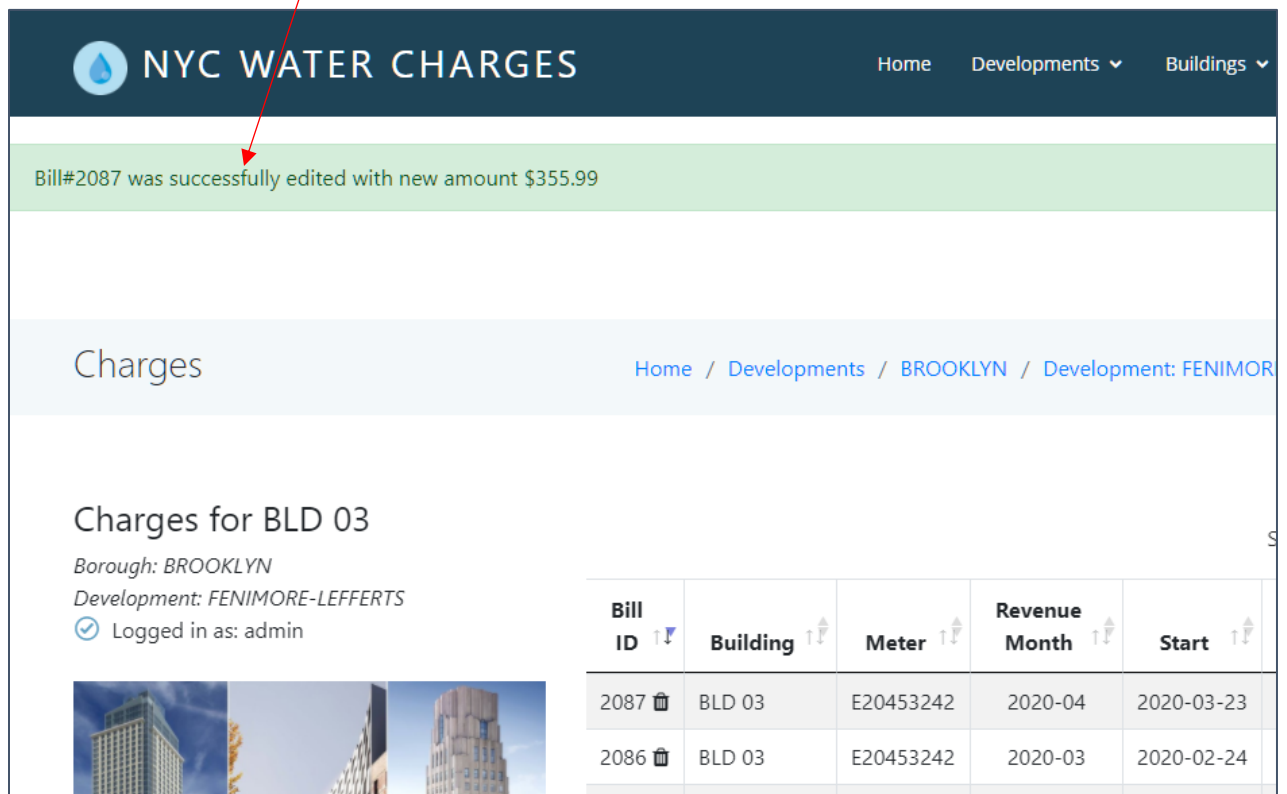
- Press OK to confirm, or cancel to undo the change.



The screenshot shows a confirmation dialog box in the center of the screen. The dialog text reads: "nyc-water-consumption.herokuapp.com says Change balance for Bill #2087 to \$355.99?". There are two buttons: "OK" (blue) and "Cancel" (grey). In the background, a table of bills is visible. The table has columns: Bill ID, Building, Meter, Revenue Month, and Start. The first row shows Bill ID 2087, Building BLD 03, Meter E20453242, Revenue Month 2020-04, and Start 2020-03-23. The second row shows Bill ID 2086, Building BLD 03, Meter E20453242, Revenue Month 2020-03, and Start 2020-02-24. The third row shows Bill ID 2085, Building BLD 03, Meter E20453242, Revenue Month 2020-02, and Start 2020-01-27. The fourth row shows Bill ID 2084, Building BLD 03, Meter E20453242, Revenue Month 2020-01, and Start 2020-01-05. On the left side of the screen, there is a header "ER CHARG" and a sub-header "03". Below the header, there is a section titled "EFFERTS" and a photograph of a tall building.

Bill ID	Building	Meter	Revenue Month	Start
2087	BLD 03	E20453242	2020-04	2020-03-23
2086	BLD 03	E20453242	2020-03	2020-02-24
2085	BLD 03	E20453242	2020-02	2020-01-27
2084	BLD 03	E20453242	2020-01	2020-01-05

- After pressing OK an alert will appear, confirming that the amount was updated.



The screenshot shows the NYC Water Charges application interface. At the top, there is a header with the NYC Water Charges logo and navigation links: Home, Developments, and Buildings. Below the header, a green message bar states: "Bill#2087 was successfully edited with new amount \$355.99". Below the message bar, there is a section titled "Charges" with a breadcrumb trail: Home / Developments / BROOKLYN / Development: FENIMORE-LEFFERTS. Below the "Charges" section, there is a sub-section titled "Charges for BLD 03" with the following information: Borough: BROOKLYN, Development: FENIMORE-LEFFERTS, and a status indicator "Logged in as: admin". Below the sub-section, there is a photograph of a tall building. To the right of the photograph, there is a table of bills. The table has columns: Bill ID, Building, Meter, Revenue Month, and Start. The first row shows Bill ID 2087, Building BLD 03, Meter E20453242, Revenue Month 2020-04, and Start 2020-03-23. The second row shows Bill ID 2086, Building BLD 03, Meter E20453242, Revenue Month 2020-03, and Start 2020-02-24.

Bill ID	Building	Meter	Revenue Month	Start
2087	BLD 03	E20453242	2020-04	2020-03-23
2086	BLD 03	E20453242	2020-03	2020-02-24