

File No. 191099

Committee Item No. 1
Board Item No. 18

COMMITTEE/BOARD OF SUPERVISORS

AGENDA PACKET CONTENTS LIST

Committee: Budget & Finance Committee

Date December 11, 2019

Board of Supervisors Meeting

Date December 17, 2019

Cmte Board

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| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Resolution |
| <input type="checkbox"/> | <input type="checkbox"/> | Ordinance |
| <input type="checkbox"/> | <input type="checkbox"/> | Legislative Digest |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Budget and Legislative Analyst Report |
| <input type="checkbox"/> | <input type="checkbox"/> | Youth Commission Report |
| <input type="checkbox"/> | <input type="checkbox"/> | Introduction Form |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Department/Agency Cover Letter and/or Report |
| <input type="checkbox"/> | <input type="checkbox"/> | MOU |
| <input type="checkbox"/> | <input type="checkbox"/> | Grant Information Form |
| <input type="checkbox"/> | <input type="checkbox"/> | Grant Budget |
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| <input type="checkbox"/> | <input type="checkbox"/> | Contract/Agreement |
| <input type="checkbox"/> | <input type="checkbox"/> | Form 126 – Ethics Commission |
| <input type="checkbox"/> | <input type="checkbox"/> | Award Letter |
| <input type="checkbox"/> | <input type="checkbox"/> | Application |
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OTHER (Use back side if additional space is needed)

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| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>Emergency Declarations</u> |
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Completed by: Linda Wong Date December 6, 2019
Completed by: Linda Wong Date December 11, 2019

FILE NO. 191099

RESOLUTION NO.

1 [Updated Emergency Declaration - Repair Southeast Treatment Plant Final Effluent Force
2 Main - Total Estimated Cost Not to Exceed \$5,500,000]

3 **Resolution approving an updated emergency declaration of the San Francisco Public**
4 **Utilities Commission pursuant to Administrative Code, Sections 6.60 and 21.15, to**
5 **repair the Southeast Treatment Plant Final Effluent Force Main for a total estimated**
6 **cost not to exceed \$5,500,000.**

7
8 WHEREAS, On October 18, 2018, the San Francisco Public Utilities Commission
9 (SFPUC) Wastewater Enterprise detected a potential failure of the pipe that conveys the
10 treated final effluent from the Southeast Treatment Plant (SEP) to the deep-water outfall
11 located near Pier 80; and

12 WHEREAS, The pipe, which crosses under Islais Creek parallel to Third Street to
13 convey the final effluent to the deep-water outfall, appeared to be leaking into Islais Creek;
14 and

15 WHEREAS, The potential continuing leak of treated effluent into Islais Creek, rather
16 than to the Bay through the deep-water outfall, required immediate action to mitigate public
17 health risks and a potentially substantial regulatory enforcement action and penalties; and

18 WHEREAS, On October 22, 2018, the General Manager of the SFPUC declared an
19 emergency, approved by the President of the San Francisco Public Utilities Commission,
20 pursuant to Chapter 6, Section 6.60 of the Administrative Code, due to the failure of, and need
21 to repair, the SEP Final Effluent Force Main, with an amount anticipated not-to-exceed
22 \$2,000,000; and

23 WHEREAS, Under the emergency declaration, the Wastewater Enterprise hired a
24 consultant and a contractor to inspect the pipe, perform surveys, provide design
25

1 recommendations, develop plans for repairs, complete such repairs and/or potentially bypass
2 the existing outfall pipe; and

3 WHEREAS, The inspection by SFPUC staff and consultants confirmed that the pipe
4 was leaking into Islais Creek; and

5 WHEREAS, In December 2018, staff determined that the scope of necessary repair
6 work at the failure location was more substantial than initially identified due to further
7 deteriorated points of connection and stringent regulatory operational constraints; and

8 WHEREAS, On December 26, 2018, due to the increased scope of work, the SFPUC
9 General Manager issued a revised Declaration of Emergency, approved by the President of
10 the San Francisco Public Utilities Commission, to repair the Southeast Treatment Plan Final
11 Effluent Force Main and thereby protect public health and safety, with an increase in the
12 estimated not-to-exceed amount of \$5,000,000, and clarifying that the repair work also should
13 proceed under Chapter 21 of the Administrative Code; and

14 WHEREAS, On February 5, 2019, the Board of Supervisors approved the declaration
15 of an emergency through Resolution No. 59-19, which stated that the estimated cost of the
16 emergency repair work was anticipated not-to-exceed \$4,912,000; and

17 WHEREAS, The initial engineering design was based on traditional construction
18 methodology; however, further investigation revealed poor soil conditions and site constraints.
19 The Site conditions necessitated construction of a bypass pipeline with water-tight
20 cofferdams; and

21 WHEREAS, Cofferdam construction requires a specialized crane and barge
22 configuration and the construction of a temporary seawall; and

23 WHEREAS, The bypass pipe being constructed with cofferdams is highly complex with
24 a scope of repair more specialized and substantial than previously identified based on further
25

1 site investigations, further deteriorated points of connection, and stringently regulated
2 operational constraints; and

3 WHEREAS, Staff now estimates that the work will exceed the \$4,912,000 not-to-
4 exceed estimate stated in San Francisco Board of Supervisors Resolution No. 59-19; and

5 WHEREAS, Including the additional design and construction costs, staff anticipates the
6 remaining work will not-exceed \$2,000,000, with a total project emergency repair cost
7 estimated not-to-exceed \$6,250,000; and

8 WHEREAS, On September 25, 2019, the General Manager of the SFPUC issued a
9 revised declaration of emergency, approved by the President of the San Francisco Public
10 Utilities Commission pursuant to Chapter 6, Section 6.60, and Chapter 21, Section 21.15, of
11 the Administrative Code, due to the failure of, and need to repair, the SEP Final Effluent Force
12 Main, with an amount anticipated not-to-exceed \$6,250,000; and

13 WHEREAS, Administrative Code, Chapter 6, Article IV, Section 6.60, authorizes
14 department heads responsible for public works to award an emergency contract, exempt from
15 the competitive bidding process, in the event of an actual emergency, which is defined to
16 include, " ... [t]he breakdown or imminent breakdown of any plant, equipment, structure, street
17 or public work necessitating immediate emergency repair or reconditioning to safeguard the
18 lives or property of the citizens, or the property of the City and County, or to maintain the
19 public health and welfare ..."; and

20 WHEREAS, Administrative Code, Chapter 21, Section 21.15(c), authorizes department
21 heads addressing a declared emergency to procure commodities or services necessary to
22 make repairs to maintain public health or welfare as a result of the breakdown of any plant
23 equipment, structure, street or public work; and

1 WHEREAS, Administrative Code, Section 6.60(d), requires the General Manager to
2 notify the Controller immediately and seek Board of Supervisors' approval of emergency
3 repairs with an estimated cost in excess of \$250,000; and

4 WHEREAS, Administrative Code, Section 21.15(c), requires the General Manager to
5 seek Board of Supervisors' approval of a declaration of emergency for procurement of
6 commodities or services with an estimated cost in excess of \$100,000; and

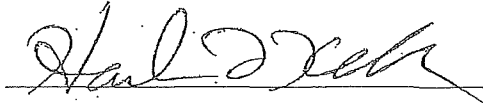
7 WHEREAS, The Controller has certified that the funding amount specified herein to
8 address this emergency work is available; now, therefore, be it

9 RESOLVED, That the Board of Supervisors approves the updated emergency
10 declaration issued by the SFPUC General Manager on September 25, 2019, to address and
11 complete repairs to the Southeast Treatment Plant Final Effluent Force Main with a new not-to-
12 exceed amount of \$5,500,000; and, be it

13 FURTHER RESOLVED, That actions taken to date by the San Francisco Public
14 Utilities Commission to address such emergency work and resolve the emergency condition
15 are hereby ratified.

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RECOMMENDED:



HARLAN L. KELLY, JR.

General Manager of the SFPUC

FUNDS AVAILABLE:



BEN ROSENFELD

Controller

Item 1 File 19-1099	Department: Public Utilities Commission (PUC)
EXECUTIVE SUMMARY	
Legislative Objectives	
<ul style="list-style-type: none"> • The proposed resolution would approve an updated emergency declaration to repair the Southeast Treatment Plant, increasing the total not to exceed by amount authorized under the previous emergency declaration by \$1,338,000 from \$4,912,000 to \$6,250,000. The additional amount includes additional contingencies which were estimated during construction due to change orders resulting from unforeseen field conditions, such as unknown buried debris, site security, and site access. 	
Key Points	
<ul style="list-style-type: none"> • The Board of Supervisors previously approved an emergency declaration due to the deterioration and leaking of a pipeline crossing Islais Creek, which conveys treated effluent from the Southeast Treatment Plant to the deep-water outfall located in the San Francisco Bay. During construction to install the new bypass pipeline crossing Islais Creek, poor soil conditions at the site were revealed, necessitating the construction of watertight cofferdams (an enclosure system within a body of water to allow water to be pumped out, creating a dry work environment) rather than portable cofferdams, which had been included in the original construction budget. The cofferdam construction required specialized crane and barge configuration and the construction of a temporary seawall. The requested increase in the amount of the emergency declaration is to cover the costs for these new construction requirements. 	
Fiscal Impact	
<ul style="list-style-type: none"> • The budget for the installation of a new bypass pipeline crossing Islais Creek is \$5,500,000 or an increase of \$588,000 over the current not to exceed amount of \$4,912,000. The increase largely accounts for site access and the installation of the watertight cofferdams. 	
Recommendations	
<ul style="list-style-type: none"> • Amend the proposed resolution to reduce the not-to-exceed amount by \$750,000, from \$6,250,000 to \$5,500,000. • Approve the proposed resolution as amended. 	

MANDATE STATEMENT

Administrative Code Section 6.60(d) states that contracts entered into for emergency work that are more than \$250,000 are subject to Board of Supervisors approval. Prior to the commencement of emergency work above the \$250,000 threshold, the Department must also secure approval in writing from the Mayor, the President of the Board, or the Commission. If the emergency does not permit the required approvals of the emergency determination to be obtained before work begins, the Department head must submit a resolution approving the emergency determination to the Board of Supervisors within 60 days.

Administrative Code Section 21.15 provides for the Board of Supervisors to declare an emergency when it becomes immediately necessary to procure commodities or services to make repairs, safeguard lives or property, or respond to the breakdown of any plant equipment, structure, street, or public work.

BACKGROUND

On February 15, 2019 the Board of Supervisors approved an Emergency Declaration for the repairs on the Southeast Treatment Plant, authorizing a not to exceed amount of \$4,912,000 (File 19-0011).

On November 5, 2019, the SFPUC submitted a resolution to the Board of Supervisors requesting an increase in the Emergency Declaration's not to exceed amount to \$6,250,000, in compliance with the Administrative Code 6.60(d) requirement that such notifications occur within 60 days of beginning construction.

DETAILS OF PROPOSED LEGISLATION

The proposed resolution would approve an updated emergency declaration to repair the Southeast Treatment Plant, increasing the total not to exceed by \$1,338,000 from \$4,912,000 to \$6,250,000. The additional amount includes additional contingencies which were estimated during construction due to change orders resulting from unforeseen field conditions, such as unknown buried debris, site security, and site access.

The original emergency construction work consisted of installing a new bypass pipeline to abandon one of the pair of existing pipelines that cross Islais Creek, conveying treated effluent from the Southeast Treatment Plant to the deep-water outfall located in the San Francisco Bay. During construction to install the new bypass pipeline crossing Islais Creek, poor soil conditions at the site were revealed, necessitating the construction of water-tight cofferdams.¹ Initial designs planned to use a type of portable cofferdam, but this was not possible because the depth of the work was greater than is possible when using the portable cofferdam. The cofferdam construction required specialized crane and barge configuration and the construction of a temporary seawall. The requested increase in the amount of the emergency declaration is to cover the costs for these new construction requirements. According to Mr.

¹ A cofferdam is an enclosure built within or in pairs across a body of water to allow the enclosed area to be pumped out, creating a dry work environment.

Michael Tran, SFPUC Project Manager, the project could not be completed prior to the 2019-2020 wet weather season beginning on October 15, 2019 without water-tight cofferdams.

Construction began on June 8th, 2019 and was substantially complete on October 8th, 2019, with demobilization complete on November 15, 2019. Although the original emergency was declared in December 2018, final engineering design was revised and finalized in May 2019 due to finding of a larger than expected depression in the middle of Islais Creek. In addition, final permits were issued by Bay Conservation Development Commission on June 5, 2019, and the encroachment permit was issued by the Port on May 28, 2019, both following completion of final engineering design. National Marine Fisheries Service finalized informal consultation on May 31, 2019 to determine any type of in-water work restrictions. There are minor activities remaining, such as site clean-up, minor sidewalk restoration, and permit close out, and construction is expected to be complete in December 2019.

FISCAL IMPACT

The updated budget for completion of construction and installation of the bypass pipeline crossing Islais Creek is \$5.5 million as shown in Table 1 below, which is \$750,000 less than the amount specified in the proposed resolution.²

Table 1: Total Project Budget

Item	Budget
Design costs	\$422,215
Construction Management costs	347,793
Construction costs, excluding change orders	3,993,956
Change order costs	736,036
TOTAL	\$5,500,000

Source: SFPUC

The original project budget included a contingency of approximately \$1.2 million of which \$1 million was applied during construction because of deteriorated concrete and metal pipes and \$200,000 was spent on site access and initial construction costs for the water tight cofferdams.

Because the project budget of \$5,500,000 is approximately \$750,000 less than the resolution requested not-to-exceed amount of \$6,250,000, the proposed resolution should be amended to reflect the actual project budget, based on final contractor estimate after construction substantial completion.

RECOMMENDATIONS

1. Amend the proposed resolution to reduce the not-to-exceed amount by \$750,000, from \$6,250,000 to \$5,500,00.
2. Approve the resolution as amended.

² According to Mr. Tran, the higher amount of \$6,250,000 was based on budget estimates during active construction in August 2019.



San Francisco
Water

Services of the San Francisco Public Utilities Commission

525 Golden Gate Avenue, 13th Floor
San Francisco, CA 94102
T 415.554.3155
F 415.554.3161
TTY 415.554.3488

INTER-OFFICE MEMORANDUM

October 22, 2018

TO: The Honorable Vince Courtney,
President, San Francisco Public Utilities Commission

FROM: Harlan L. Kelly, Jr., SFPUC General Manager *HK*

SUBJECT: Declaration of Emergency: Repair Southeast Treatment Plant Final Effluent Force Main

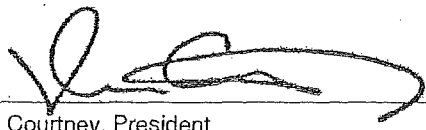
In accordance with Chapter 6, Section 6.60 of the Administrative Code of the City and County of San Francisco, I am declaring an emergency on behalf of the San Francisco Public Utilities Commission.

On October 18, 2018, the SFPUC Wastewater Enterprise detected a potential failure of the pipe that conveys the treated final effluent from the Southeast Treatment Plant (SEP) to the deep-water outfall located near Pier 80. The pipe crosses under Islais Creek parallel to Third Street and appears to be leaking into Islais Creek. This continuing leak of treated effluent into Islais Creek, rather than to the Bay through the deep-water outfall, could result in substantial regulatory enforcement action and penalties. Immediate action also is required to mitigate potential public health risks.

This request for emergency declaration is to enable the Wastewater Enterprise to hire a consultant and contractor to inspect the pipe, perform any necessary surveys, provide design recommendations, plans for repairs, complete such repairs and/or potentially bypass the existing outfall pipe by installing a new 36-inch diameter pipe with a valve at each end of the new bypass pipe. The repairs and/or bypass solution will also include hiring divers to supervise the work. This work is beyond the capabilities of City forces. The estimated cost for the work is not anticipated to exceed \$2,000,000.

I am therefore declaring the existence of an emergency. I trust that this meets with your concurrence and approval.

CONCUR AND APPROVE:



Vince Courtney, President
San Francisco Public Utilities Commission

cc: A. Caen K. How
F. Vietor E. Sandler
A. Moran M. Carlin
I. Kwon G. Norby

London N. Breed
Mayor

Vince Courtney
President

Ann Moller Caen
Vice President

Francesca Viator
Commissioner

Anson Moran
Commissioner

Ike Kwon
Commissioner

Harlan L. Kelly, Jr.
General Manager

OUR MISSION: To provide our customers with high-quality, efficient and reliable water, power and sewer services in a manner that values environmental and community interests and sustains the resources entrusted to our care.






INTER-OFFICE MEMORANDUM

December 26, 2018

TO: The Honorable Vince Courtney,
 President, San Francisco Public Utilities Commission

FROM: Harlan L. Kelly, Jr., SFPUC General Manager 

SUBJECT: Revised Declaration of Emergency: Repair Southeast Treatment Plant Final Effluent Force Main

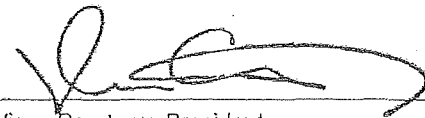
On October 18, 2018, the SFPUC Wastewater Enterprise detected a potential failure of the pipe that conveys the treated final effluent from the Southeast Treatment Plant to the deep-water outfall located near Pier 80.

In my memorandum to you dated October 22, 2018, I declared an emergency due to the failure of, and need to repair, the Southeast Treatment Plant Final Effluent Force Main, with an amount not anticipated to exceed \$2 million. You provided your written concurrence and approval.

I declared the emergency pursuant to Chapter 6, Section 6.60 of the Administrative Code of the City and County of San Francisco, which pertains to emergency contracting for public works. Staff has now learned further information about the scope of the needed repair work at the failure location. The existing pipe that crosses under Islais Creek parallel to Third Street is confirmed to be leaking into Islais Creek. In addition, staff has determined that the scope of repair is more specialized and substantial than initially identified based on further site investigations, further deteriorated points of connection, and stringent regulated operational constraints. With this additional information, staff estimates that the anticipated cost of the work will be more than the initial \$2 million estimate. Staff now estimates the cost of the work beyond the capabilities of City forces is not anticipated to exceed \$5 million. Furthermore, in consultation with the City Attorney's Office, staff has determined that in addition to the definition of "public work" under Chapter 6, the needed emergency repair work also meets the definition of "commodities" and "services" under Section 21.15 of the San Francisco Administrative Code. Accordingly, the appropriate authorization for this emergency declaration is both Administrative Code Section 6.60 and Section 21.15(c).

I am therefore updating the October 22, 2018 declaration of an emergency to reflect these changes – (1) authorization of the declaration under both Administrative Code Section 6.60 and Section 21.15, and (2) an increase in the anticipated not to exceed cost from \$2 million to \$5 million. I trust that this meets with your concurrence and approval.

CONCUR AND APPROVE:


 Vince Courtney, President
 San Francisco Public Utilities Commission

cc: A. Caen K. How
 F. Vietor E. Sandler
 A. Moran M. Carlin
 I. Kwon G. Norby

London N. Breed
 Mayor

Vince Courtney
 President

Ann Miller Caen
 Vice President

Francesca Vietor
 Commissioner

Anson Moran
 Commissioner

Ike Kwon
 Commissioner

Harlan L. Kelly, Jr.
 General Manager

OUR MISSION: To provide our customers with high-quality, efficient and reliable water, power and sewer services in a manner that values environmental and community interests and sustains the resources entrusted to our care.



AMENDED IN COMMITTEE
1/30/19

FILE NO. 190011

RESOLUTION NO. 59-19

1 [Emergency Declaration - Repair Southeast Treatment Plant Final Effluent Force Main - Total
2 Estimated Cost Not to Exceed \$4,912,000]

3 **Resolution approving an emergency declaration of the San Francisco Public Utilities**
4 **Commission pursuant to Administrative Code, Sections 6.60 and 21.15, to repair the**
5 **Southeast Treatment Plant Final Effluent Force Main for a total estimated cost not to**
6 **exceed \$4,912,000.**

7
8 WHEREAS, On October 18, 2018, the San Francisco Public Utilities Commission
9 (SFPUC) Wastewater Enterprise detected a potential failure of the pipe that conveys the
10 treated final effluent from the Southeast Treatment Plant (SEP) to the deep-water outfall
11 located near Pier 80; and

12 WHEREAS, The pipe, which crosses under Islais Creek parallel to Third Street to
13 convey the final effluent to the deep-water outfall, appeared to be leaking into Islais Creek;

14 WHEREAS, The continuing leak of treated effluent into Islais Creek, rather than to the
15 Bay through the deep-water outfall, requires immediate action be taken to mitigate public
16 health risks and substantial regulatory enforcement action and penalties; and

17 WHEREAS, On October 22, 2018, the General Manager of the SFPUC declared an
18 emergency, approved by the President of the San Francisco Public Utilities Commission,
19 pursuant to Chapter 6, Section 6.60 of the Administrative Code of the City and County of San
20 Francisco, due to the failure of, and need to repair, the SEP Final Effluent Force Main, with an
21 amount not anticipated to exceed \$2,000,000; and

22 WHEREAS, The request for declaration of emergency is to enable the Wastewater
23 Enterprise to hire a consultant and contractor to inspect the pipe, perform any necessary
24 surveys, provide design recommendations, plans for repairs, complete such repairs and/or
25 potentially bypass the existing outfall pipe; and

Public Utilities Commission
BOARD OF SUPERVISORS

Page 1

1 WHEREAS, Upon further inspection, staff confirmed that the pipe is leaking into Islais
2 Creek; and

3 WHEREAS, Staff learned further information about the scope of the needed repair
4 work at the failure location, and has determined that the scope of repair is more specialized
5 and substantial than initially identified based on further site investigations, further deteriorated
6 points of connection, and stringent regulated operational constraints; and

7 WHEREAS, Administrative Code, Chapter 6, Article IV, Section 6.60, authorizes
8 department heads responsible for public work to award an emergency contract, exempt from
9 the competitive bidding process, in the event of an actual emergency, which is defined to
10 include, " ... [t]he breakdown or imminent breakdown of any plant, equipment, structure, street
11 or public work necessitating immediate emergency repair or reconditioning to safeguard the
12 lives or property of the citizens, or the property of the City and County, or to maintain the
13 public health and welfare ..."; and

14 WHEREAS, Administrative Code, Chapter 21, Section 21.15(c), authorizes department
15 heads responsible for operations for which commodities or services are needed to declare an
16 emergency to make repairs to maintain public health or welfare as a result of the breakdown
17 of any plant equipment, structure, street or public work; and

18 WHEREAS, On December 26, 2018, due to the increased scope of work, the SFPUC
19 General Manager issued a revised Declaration of Emergency, approved by the President of
20 the San Francisco Public Utilities Commission, to repair the Southeast Treatment Plan Final
21 Effluent Force Main and thereby protect public health and safety, with an increase in the
22 estimated not to exceed amount of \$4,912,000, and clarifying that the repair work also should
23 proceed under Chapter 21 of the Administrative Code; and

24
25

1 WHEREAS, Administrative Code, Section 6.60(d), requires that the General Manager
2 immediately notify the Controller, and seek Board of Supervisors' approval of emergency
3 public works with an estimated cost in excess of \$250,000; and

4 WHEREAS, Administrative Code, Section 21.15(c), requires that the General Manager
5 seek Board of Supervisors' approval of the declaration of emergency for commodities or
6 services with an estimated cost in excess of \$100,000; and

7 WHEREAS, The Controller has certified that funds are available for this emergency
8 work and contract; now, therefore, be it

9 RESOLVED, That the Board of Supervisors approves the emergency declaration
10 issued by the SFPUC General Manager on October 22, 2018, as amended on December 26,
11 2018, to address and complete repairs to the Southeast Treatment Plan Final Effluent Force
12 Main; and, be it

13 FURTHER RESOLVED, That actions taken to date by the San Francisco Public
14 Utilities Commission to address such emergency work and resolve the emergency condition
15 are hereby ratified.

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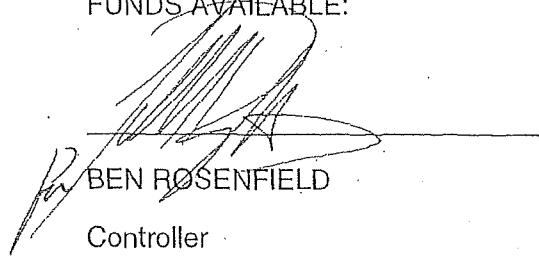
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RECOMMENDED:



HARLAN L. KELLY, JR.
General Manager of the SFPUC

FUNDS AVAILABLE:



BEN ROSENFIELD
Controller



City and County of San Francisco

Tails

Resolution

City Hall
1 Dr. Carlton B. Goodlett Place
San Francisco, CA 94102-4689

File Number: 190011

Date Passed: February 05, 2019

Resolution approving an emergency declaration of the San Francisco Public Utilities Commission pursuant to Administrative Code, Sections 6.60 and 21.15, to repair the Southeast Treatment Plant Final Effluent Force Main for a total estimated cost not to exceed \$4,912,000.

January 30, 2019 Budget and Finance Committee - AMENDED

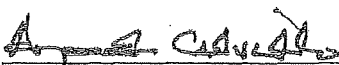
January 30, 2019 Budget and Finance Committee - RECOMMENDED AS AMENDED

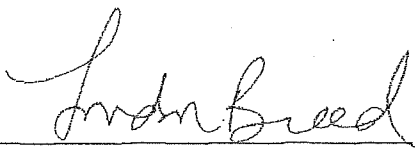
February 05, 2019 Board of Supervisors - ADOPTED

Ayes: 11 - Brown, Fewer, Haney, Mandelman, Mar, Peskin, Ronen, Safai, Stefani, Walton and Yee

File No. 190011

I hereby certify that the foregoing Resolution was ADOPTED on 2/5/2019 by the Board of Supervisors of the City and County of San Francisco.


Angela Calvillo
Clerk of the Board


London N. Breed
Mayor


Date Approved



INTER-OFFICE MEMORANDUM

September 25, 2019

TO: Ann Moller Caen
 President, San Francisco Public Utilities Commission

FROM: Harlan L. Kelly, Jr., General Manager *(MPC)*

SUBJECT: Declaration of Emergency Update: Repair Southeast Treatment Plant Final Effluent Force Main

On October 18, 2018, the SFPUC Wastewater Enterprise discovered a potential failure of the pipe that conveys the treated final effluent from the Southeast Treatment Plant to the deep-water outfall located near Pier 80. In an October 22, 2018 memorandum to the then-President of the Commission, I declared an emergency due to the failure of, and need to repair, the Southeast Treatment Plant Final Effluent Force Main, with an estimated repair cost of not to exceed \$2 million. The Commission President provided his written concurrence and approval.

On December 26, 2018, I issued an updated declaration of an emergency to reflect two changes based on initial detailed engineering field evaluation and updated construction estimates for the work: (1) authorization of the declaration under both Administrative Code Section 6.60 and Section 21.15, and (2) an increase in the anticipated not to exceed cost from \$2 million to \$5 million. On February 5, 2019, the Board of Supervisors approved the declaration of an emergency through Resolution No. 59-19, which stated that the estimated cost of the emergency repair work was anticipated not to exceed \$4.912 million.

A bypass pipeline is currently under construction to eliminate one of the existing pair of force mains that crosses under Islais Creek parallel to Third Street. While initial engineering design expected traditional construction methodology, a contractor later confirmed that the only way to construct the bypass pipeline is to build water-tight cofferdams due to poor soil conditions and site constraints. Cofferdam construction requires a specialized crane and barge configuration which necessitated building a temporary seawall. Staff is working closely with consultant and contractor teams to build the bypass pipe in a marine site that is substantially more complex with poor soil conditions, limited waterside access, thick sediment layer, active marine wildlife, dilapidated existing pipe conditions, larger than expected void under the initial pipeline alignment design, and a target construction completion before the upcoming wet weather season.

Based on information learned during active construction, staff now estimates the work will exceed the \$4.912 million not-to-exceed estimate stated in Board of Supervisors Resolution No. 59-19. With actual design and construction costs, the total emergency repair cost is now estimated at \$6.25 million.

I am therefore updating the December 26, 2018 declaration of an emergency for an increase in the anticipated not to exceed cost from \$5 million to \$6.25 million. In light of the increase in estimated costs, we will return to the Board of Supervisors for approval of this updated declaration of an emergency. I trust that this meets with your concurrence and approval.

CONCUR AND APPROVE:

 Ann Moller Caen, President
 San Francisco Public Utilities Commission

cc: SFPUC Commission, M. Carlin, G. Norby

London N. Breed
 Mayor
 Ann Moller Caen
 President
 Francesca Victor
 Vice President
 Anson Moran
 Commissioner
 Sophie Maxwell
 Commissioner
 Tim Paulson
 Commissioner
 Harlan L. Kelly, Jr.
 General Manager





San Francisco
Water Power Sewer
Services of the San Francisco Public Utilities Commission

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BOARD OF SUPERVISORS
SAN FRANCISCO

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San Francisco, CA 94102
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TTY 415.554.3488

2019 OCT 25 AM 10:41

BY

TO: Angela Calvillo, Clerk of the Board
FROM: Mona Panchal, Policy and Government Affairs
DATE: October 25, 2019
SUBJECT: Emergency Declaration – Repair Southeast Treatment Plant
Final Effluent Force Main – Total Estimated Cost Not to
Exceed \$6,250,000

Attached please find an original copy of a resolution. The resolution is to approve an updated emergency declaration of the San Francisco Public Utilities Commission pursuant to San Francisco Administrative Code, Section 6.60 and Section 21.15, to repair the Southeast Treatment Plant Final Effluent Force Main for a total estimated cost not-to-exceed \$6,250,000.

In this packet you will find:

- Two copies of the draft BOS resolution
- A copy of the October 22, 2018 SFPUC Emergency Declaration
- A copy of the updated December 26, 2018 SFPUC Emergency Declaration
- A copy of BOS Resolution 59-19
- A copy of the updated September 25, 2019 SFPUC Emergency Declaration

Please contact Mona Panchal at (415) 934-3908 if you need any additional information on these items.

London N. Breed
Mayor

Ann Moller Caen
President

Francesca Vietor
Vice President

Anson Moran
Commissioner

Sophie Maxwell
Commissioner

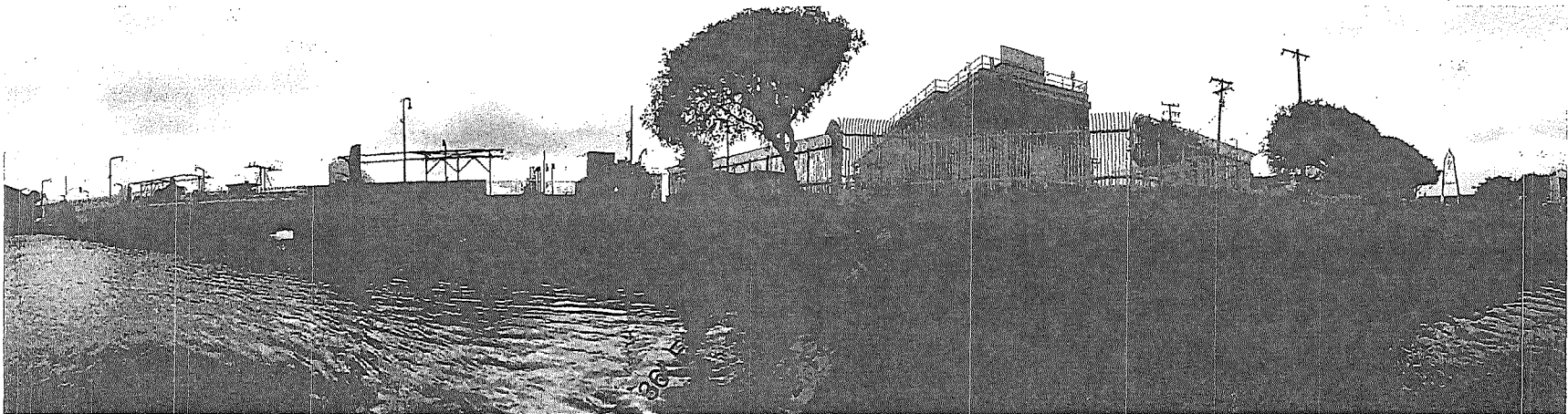
Tim Paulson
Commissioner

Harlan L. Kelly, Jr.
General Manager

OUR MISSION: To provide our customers with high-quality, efficient and reliable water, power and sewer services in a manner that values environmental and community interests and sustains the resources entrusted to our care.



FLU # 171117
Receive 1 @mmitte
12/11/19 *jm*

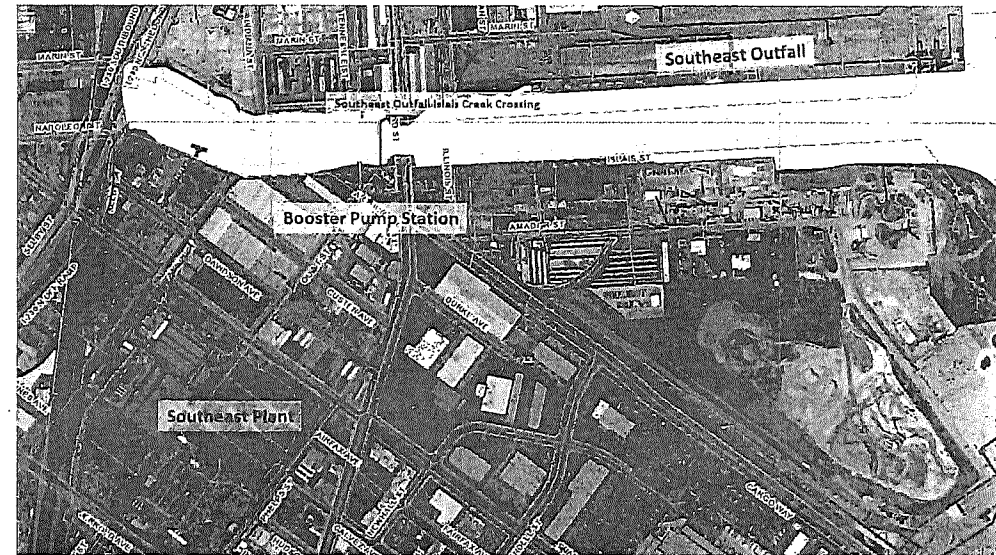


Declaration of Emergency Southeast Outfall Islais Creek Crossing – Emergency Bypass

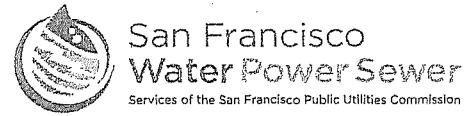
Budget and Finance Committee
December 11, 2019
San Francisco Public Utilities Commission
Michael Tran, Project Manager

Southeast Outfall Islais Creek Crossing – Emergency Bypass Booster Pump Station (BPS) Overview

- Booster Pump Station constructed 1967, last upgrade in 2002
- BPS pumps final treated effluent from Southeast Plant into San Francisco Bay
- Flow Conveyance
 - 50-60 Million Gallons per Day Average
 - 110 Million Gallons per Day Peak
- Discharge: Pressurized Pipelines crossing Islais Creek into the Southeast Outfall System
 - Planned Islais Creek Crossing Replacement



Southeast Outfall Islais Creek Crossing – Emergency Bypass Declaration of Emergency



- October 18, 2018: Wastewater Enterprise staff discovered a leak from the Southeast Outfall Islais Creek Crossing.
- Leaking Force Main Risks
 - The operation of the leaking pipe represents non-compliance under the Southeast Water Pollution Control Plant's NPDES permit.
 - The pipe was leaking into Islais Creek, a waterway which has been identified by the Regional Water Quality Board 303(d) List of Impaired Water Bodies.
- October 22, 2018: SFPUC declared an emergency according to SF Administrative Code Chapter 6.60.

Southeast Outfall Islais Creek Crossing – Emergency Bypass Booster Pump Station (BPS) Overview

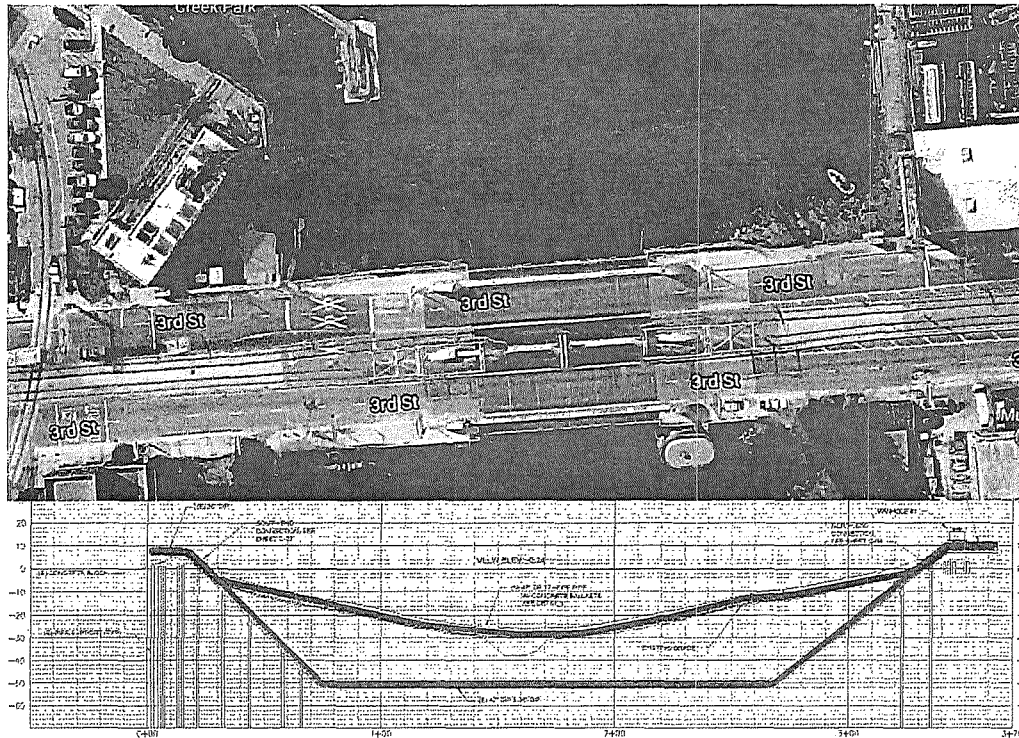


- December 26, 2018: Based on further design and field findings, SFPUC revised the emergency declaration with an increased anticipated value of \$4.912 million under both SF Administrative Code Chapter 6.60 and Chapter 21.15.
- September 25, 2019: After multiple unforeseen conditions during construction in August 2019, the project team concluded costs will exceed the initially approved budget of \$4.912 million; thus, recommended to revise the emergency declaration to \$6.25 million.

Southeast Outfall Islais Creek Crossing – Emergency Bypass Response to Emergency & Bypass Initial Designs



- Initial Construction Duration Estimate: 9 months
- Initial Project Budget Estimate: Not to Exceed \$5 million
- CEQA: Statutory Exemption



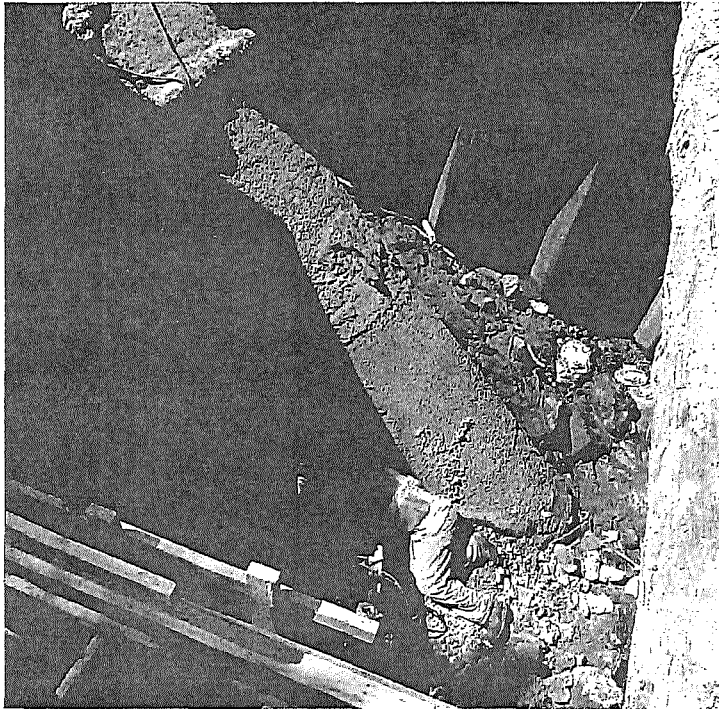
Existing 36" and 42"
Force Main
Alignment

New 42" Inner
Diameter
Temporary
Emergency Bypass
Pipe

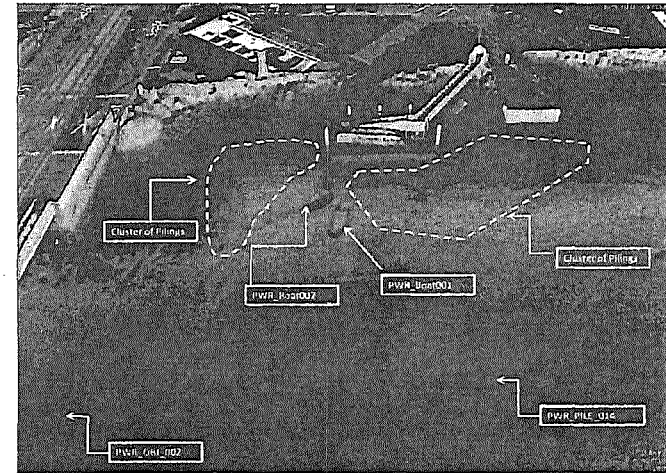
687

Southeast Outfall Islais Creek Crossing – Emergency Bypass Challenges Encountered

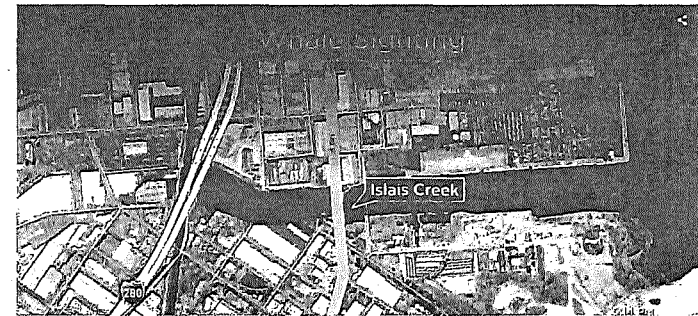
889



Poor soil conditions and debris encountered during construction, adjacent to aging pipeline



Unknown site conditions were found during construction.

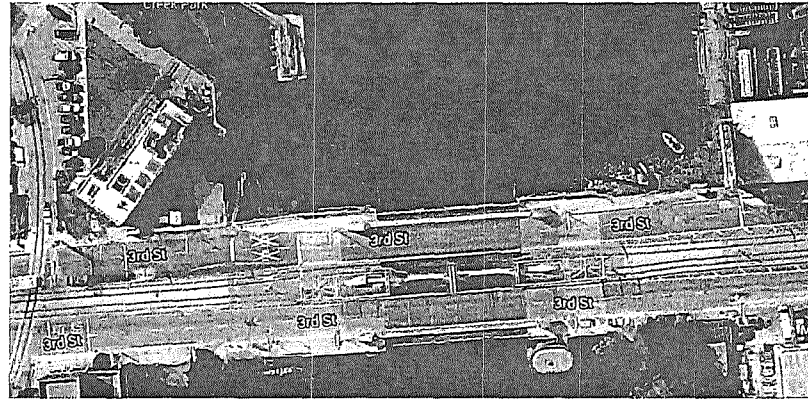


Active marine life within project area were encountered.

Southeast Outfall Islais Creek Crossing – Emergency Bypass New Horizontal Alignment

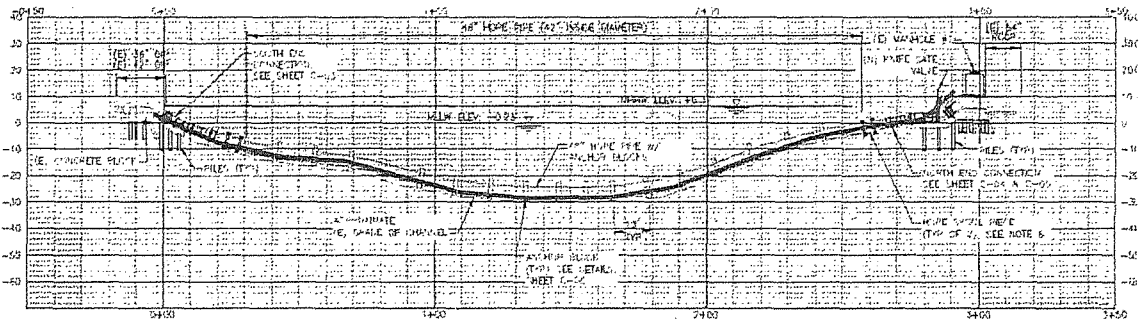


- Actual Construction Duration: 6 months (June – December)
 - Substantially complete as of October 2019
 - Demobilization in November 2019
 - Final site work completion, target December 2019
- Actual Cost: Not to Exceed \$5.5 million
- CEQA: Statutory Exemption



Existing 36" and 42" Force Main Alignment

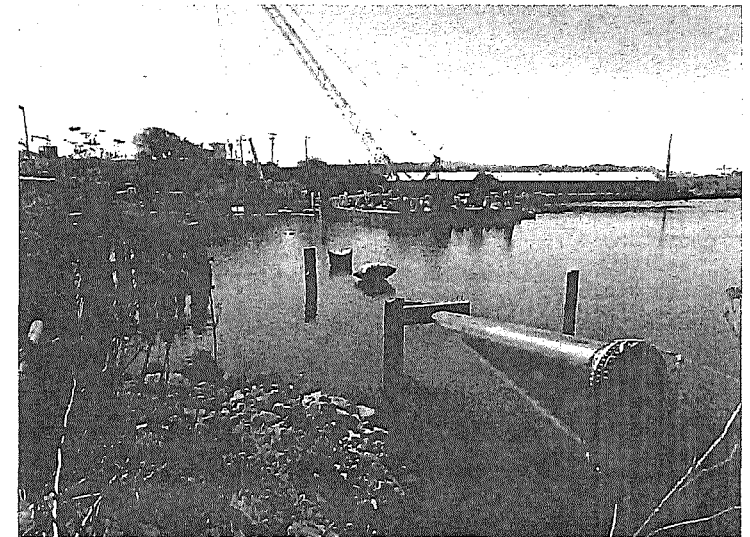
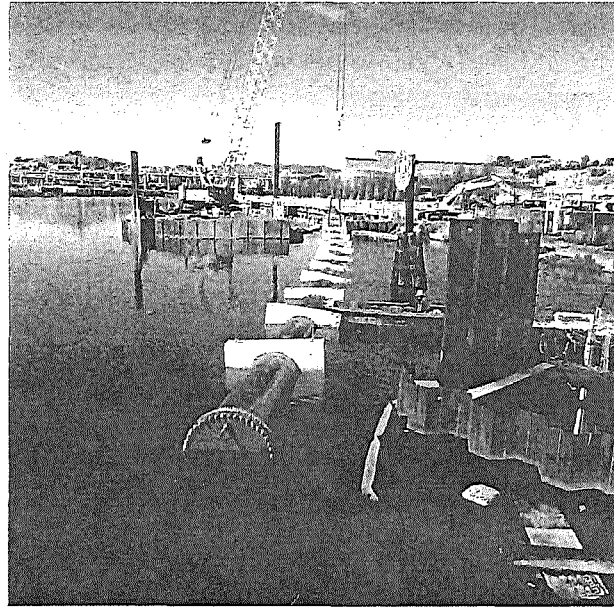
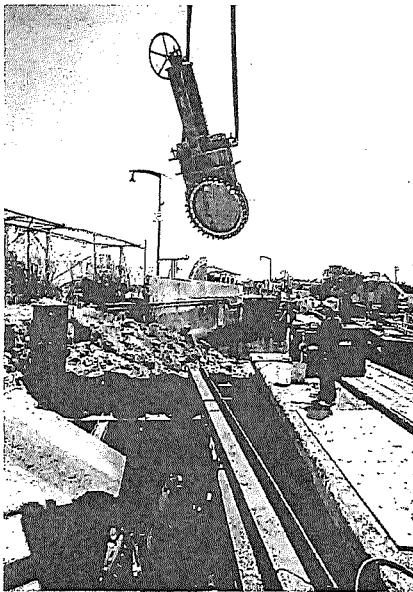
New 42" Inner Diameter Temporary Emergency Bypass Pipe



Southeast Outfall Islais Creek Crossing – Emergency Bypass Current Status



- Construction is substantially complete as of October 8, 2019.
- Complete all remaining outstanding site work, targeted for December 2019.

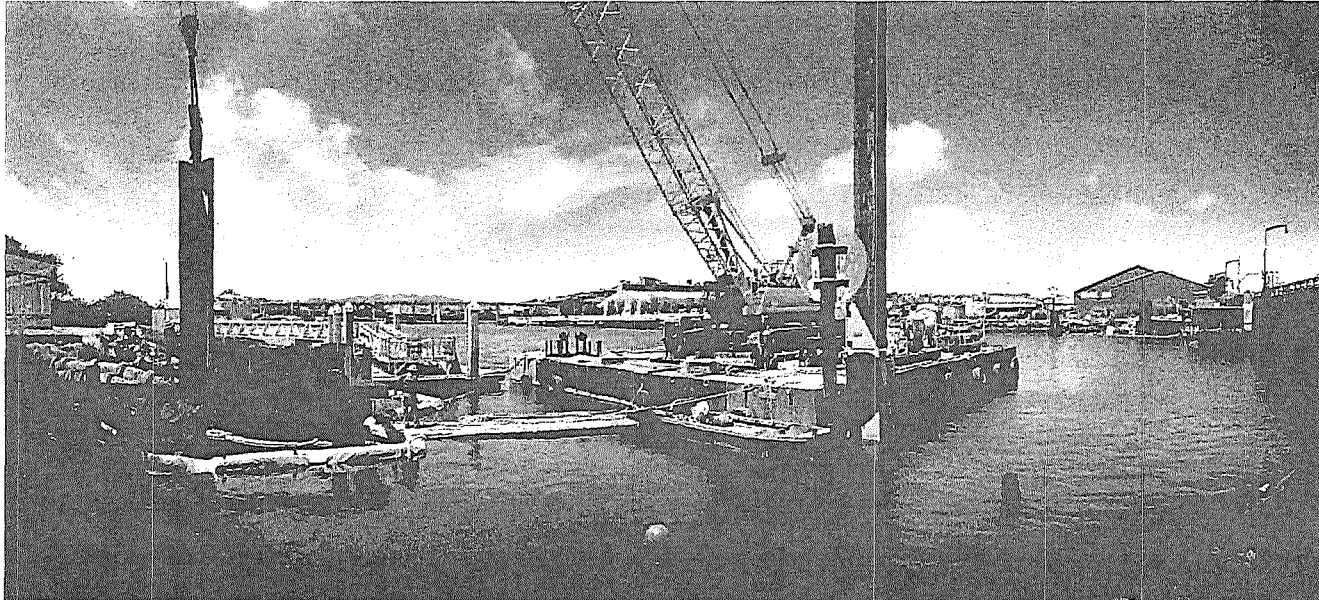


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Southeast Outfall Islais Creek Crossing – Emergency Bypass Request of Committee



- Support approval of the revised emergency declaration for constructing the emergency bypass pipeline.



Southeast Outfall Islais Creek Crossing – Emergency Bypass



Thank you!
Questions?