

TECHNICAL MEMORANDUM

DATE May 22, 2018

TO Robert Price
Construction Project Manager

San Mateo-Foster City School District
1170 Chess Drive
Foster City, CA 94404

FROM Steve Bush, P.E., Senior Engineer

SUBJECT New Elementary School at Charter Square
Water Pipeline Safety Hazard Assessment
SMFC-01.0

Introduction

PlaceWorks was retained by the San Mateo-Foster City School District (District) to conduct a Water Pipeline Safety Hazard Assessment (WPSHA) for the New Elementary School at Charter Square. The District proposes to develop a new elementary school on the site of an existing 6-acre retail commercial center known as Charter Square in Foster City, California. Six large volume (12-inch diameter and larger) water pipelines were identified within 1,500 feet of the project site. The WPSHA evaluates potential flooding impacts to the project site and was conducted as required by California Code of Regulations (CCR), Title 5, Section 14010(h).

1.1 PROJECT LOCATION

The project site is located at 1050-1064 Shell Boulevard in Foster City, San Mateo County, California (Figure 1). The project site is bordered to the north by a neighborhood church and parking lot, to the east by Shell Boulevard, to the south by Beach Park Boulevard, and to the west by single- and multi-family residences.

2. Water Pipeline Safety Hazard Assessment

2.1 REGULATORY REQUIREMENTS

Under Education Code Section 17251, the California Department of Education (CDE) has authority to approve acquisition of proposed school sites. The school district must obtain CDE approval for sites to receive state funds under the state's School Facilities Program administered by the State Allocation Board. CDE standards and regulations for this process are presented in CCR, Title 5, Sections 14010, 14011, and 14012. Information on assessing safety hazard related to pipelines is discussed in Section 14010 (h):

The site shall not be located near an above-ground water or fuel storage tank or within 1,500 feet of the easement of an above-ground or underground pipeline that can pose a safety hazard as determined by a risk analysis study, conducted by a competent professional, which may include certification from a local public utility commission.

No high pressure natural gas pipelines or hazardous liquid pipelines were identified within 1,500 feet of the project site.^{1 2} However, the Phase 1 Environmental Site Assessment Report for the project site included an EDR Radius Map Report which depicted a natural gas pipeline approximately 250 feet southeast of the site.³ Pacific Gas & Electric Company (PG&E) responded that no high pressure natural gas pipelines are located within 1,500 feet of the site. The California Public Utilities Commission, and the Pipeline and Hazardous Materials Safety Administration both responded that they have no records for the pipeline identified in the EDR report. EDR was contacted regarding the source of the pipeline information in the 2016 EDR Radius Map Report (i.e., PennWell Corporation). PennWell Corporation responded to EDR that the identified natural gas pipeline was owned by PG&E.⁴ As PG&E responded that no high pressure lines were located within 1,500-feet of the site, no further action is required for the purposes of a pipeline risk analysis of the identified pipeline in the 2016 EDR report.

¹ National Pipeline Mapping System (NPMS), 2018. Hazardous liquids pipeline map produced by the NPMS Public Viewer at <https://pvnpm.phmsa.dot.gov/PublicViewer/>. Accessed on March 16, 2018.

² Pacific Gas & Electric Company (PG&E), 2018. Natural gas transmission pipeline map produced by PG&E at https://www.pge.com/en_US/safety/how-the-system-works/natural-gas-system-overview/gas-transmission-pipeline/gas-transmission-pipelines.page. Accessed on March 16, 2018.

³ Arcadis U.S., Inc., 2016. *Phase I Environmental Site Assessment Report for 1050-1098 Shell Boulevard, Foster City, CA 94404*. Dated December 12, 2016.

⁴ EDR, 2018. Telephone conversation between Di Casian, Account Manager, EDR and Steve Bush, PE, Senior Engineer, PlaceWorks on April 3, 2018.

The CDE's School Site Selection and Approval Guide also contains provisions for evaluating high-pressure water pipelines:⁵

To ensure the protection of students, faculty, and school property if the proposed school site is within 1,500 feet of the easement of an aboveground or underground pipeline that can pose a safety hazard, the school district should obtain the following information from the pipeline owner and operator:

- » *Pipeline alignment, size, type of pipe, depth of cover,*
- » *Operating water pressures in pipelines near the proposed school site,*
- » *Estimated volume of water that might be released from the pipeline should a rupture occur on the site, and*
- » *Owner's assessment of the structural condition of the pipeline.*

2.2 ASSESSMENT METHODOLOGY

To meet the requirements of CCR Title 5 Sections 14010 (d) and (h) and CDE's policy on pipelines, this WPSHA is designed to meet the following objectives:

- » Identify all high pressure/high volume water pipelines within 1,500 feet of the proposed school site and evaluate the potential for flooding, and
- » Where appropriate, identify and develop mitigation measures to reduce flooding impacts to acceptable levels.

The CDE has developed risk analysis procedures for evaluating flooding associated with releases from large diameter water pipelines, as described in CDE's Guidance Protocol for School Site Pipeline Risk Analysis.⁶ A safety issue associated with large diameter water pipelines is the potential for flooding. Also, releases from underground water pipelines can cause subterranean erosion of saturated soil, leading to subsidence or formation of a sinkhole. The most likely cause of failure is a large magnitude earthquake and associated strong ground shaking.

Although no specific criteria have been established by the CDE as a threshold of significance for flooding at a project site, a water depth of 12 inches or greater is a trigger that could warrant further evaluation.⁷

⁵ California Department of Education (CDE), 2000. Resources for School Facilities Planning, School Selection and Approval Guide. Prepared by School Facilities Planning Division, CDE, Sacramento, CA.

⁶ California Department of Education (CDE), 2007. Guidance Protocol for School Site Pipeline Risk Analysis, Prepared by URS Corporation. Dated February 2007.

⁷ Ibid.

2.3 PIPELINE LOCATION AND OPERATIONAL DATA

Based on maps and correspondence provided by the Estero Municipal Water District (EMID), there are six high volume (≥ 12 inch diameter) water pipelines within 1,500 feet of the project site, as summarized in Table 1.⁸ No other large volume water pipelines were identified within 1,500 feet of the site. The alignments of the pipelines are shown on Figure 1.

Table 1 Water Pipelines

PIPELINE DIAMETER	PIPELINE LOCATION	MATERIAL OF CONSTRUCTION	AGENCY
16-Inch	Shell Boulevard; east and adjacent to the site	Asbestos cement pipe (ACP)	Estero Municipal Improvement District (EMID)
14-Inch	Beach Park Boulevard; south and adjacent to the site	ACP	EMID
14-inch	Halsey Boulevard; south of Beach Park Boulevard	ACP	EMID
12-inch	Beach Park Boulevard; east of Shell Boulevard	ACP	EMID
12-inch	Catamaran Street; 200-ft west of site	ACP	EMID
12-inch	Farragut Boulevard; 1,010-ft southwest of the site	ACP	EMID

2.4 WATER PIPELINE FLOODING ANALYSIS

The CDE requires that the risk of releases from high volume (>12 inches) water pipelines be evaluated. The CDE Guidance Protocol for School Pipeline Risk Analysis provides a methodology for evaluating the potential for flooding. A probability analysis is not required.

All six of the identified high volume water pipelines are located beneath streets (Table 1). A pipeline flooding analysis was conducted for these pipelines to determine the depth and location of water flow within the street in the event of a pipeline leak or rupture. For this worst-case analysis, it was conservatively assumed that all of the water flowing through the pipelines at their maximum capacity would reach the surface. In addition, no credit was taken for the presence of storm drains along these streets.

⁸ Estero Municipal Improvement District (EMID), 2018. Pipeline map and correspondence between Lawrence Tam, Assistant Engineer, Foster City Public Works and Steve Bush, PE, Senior Engineer, PlaceWorks on March 29, 2018.

Release impacts were calculated based on the procedures specified in the CDE manual. The release rate was determined by multiplying the pipe area by an assumed velocity of 5 feet per second (fps). Then the release rate was compared to the carrying capacity of the street, taking into account longitudinal slope, to determine if the water would be contained within the confines of the street curbing.⁹ The result is provided in Table 2.

Table 2 Street Flow

PIPELINE DIAMETER	PIPELINE LOCATION	RELEASE RATE (CFS)	STREET WIDTH (FT)	DEPTH OF FLOW IN STREET (IN)	EXCEEDS STREET CARRYING CAPACITY?
16-inch	Shell Boulevard	6.98	64	5.0	No
14-inch	Beach Park Boulevard	5.34	64	4.4	No
14-inch	Halsey Boulevard	5.34	38	4.8	No
12-inch	Beach Park Boulevard	3.93	64	4.5	No
12-inch	Catamaran Street	3.93	40	4.5	No
12-inch	Farragut Boulevard	3.93	38	5.0	No

Assuming a standard 6-inch curb for all residential streets, the water released from a full-flow rupture of any of the water mains would be entirely contained within the confines of the curbing and would not result in flooding at the school site.

3. Conclusions

In summary, a potential break in any of the water pipelines located within 1,500 feet of the site would not result in significant flooding at the project site.

Respectfully submitted,

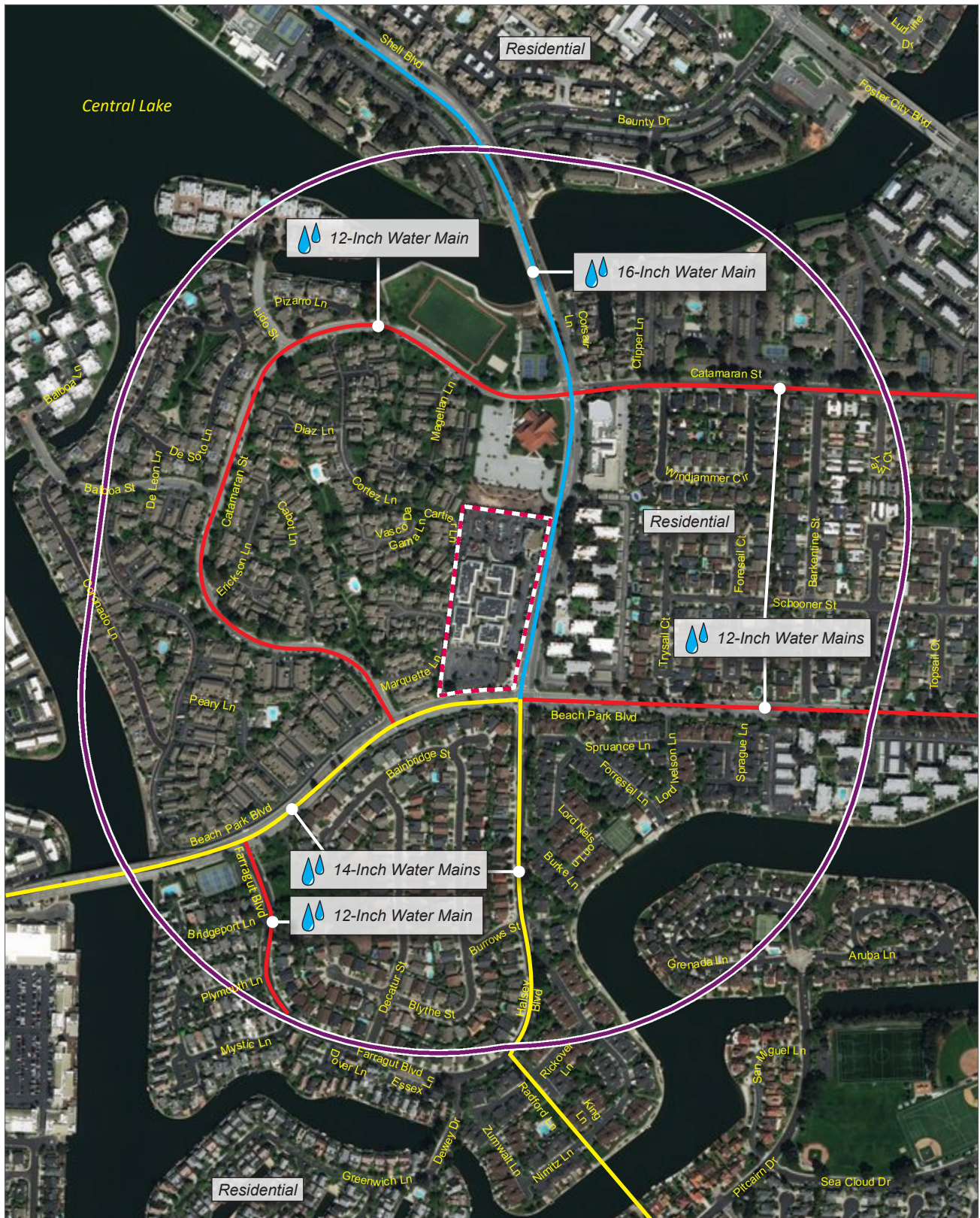
PlaceWorks



Steve Bush, PE
Senior Engineer



⁹ Jeffers & Associates, 2006. Modified Manning's Equation Solver. Version 3.0.



Source: ESRI, 2018



- Project Site
- 1,500-ft Radius

Figure 1
 School Site and Pipeline Map

Appendix A – Water Analysis



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Modified Manning's Equation Solver

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Quit

Parameters | Composite Triangular Sections | Head - Discharge Table | Assumptions | Inlet Geometry | Disclaimer

Flow line - Lateral boundary to half-street flow

Crown Line - Lateral boundary to half-street flow

Flowline offset: 32.0 ft to top face

Spread: 19.48 ft

W - lip to flowline: 17.0 in.

Sx: 2.00 %

Crown: 0.67 ft

Depth: 5.0 in.

d: 0.42 ft

Long. slope: 0.0024 (ft/ft)

N value: 0.016

Sw: 4.16 % a: 0.031 ft

Gutter Depression - lip to flowline: 0.059 ft

Local Parameters:

Local inlet flow line depression: 2.0 in.

Curb Opening Parameters:

C-O Apron wider than gutter: 0 in.

S'w 13.9 % Se: 4.68 %

Length of curb opening inlet: 12.0 ft

Lt: 16.67 ft

80 % Clear Efficiency

Curb opening flowby: 1.49 cfs

Street Parameters:

Q: 6.98 cfs

K: 142.5

Vel: 1.83 ft/s

Eo: 19.3 %

W/T: 0.0727

Standard Manning's:

Q: 5.76 cfs

K: 117.6

Vel: 1.51 ft/s

Rh: 0.19 ft

Area: 3.81 sf

Grate Parameters:

P-1-7/8-4

Print Chart 7

Apron wider than grate: 2 in.

Length: 48 in.

Width: 22 in.

% Factor 50

Splash-over Vel: 7.41 ft/s

Rs: 23.34 %

Side flow captured: 0.23 cfs

Total combined CB flowby: 0.76 cfs

Vel over grate: 1.93 ft/s

Eo: 67.57 %

Rf: 100.00 %

Frontal captured: 0.50 cfs

16-inch Water Main - Street Flow
Shell Boulevard

Modified Manning's Equation Solver

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Parameters | Composite Triangular Sections | Head - Discharge Table | Assumptions | Inlet Geometry | Disclaimer |

Flow line - Lateral boundary to half-street flow

Flowline offset: 32.0 ft to top face

Crown Line - Lateral boundary to half-street flow

Spread: 16.87 ft

W - lip to flowline: 17.0 in.

Sx: 2.00 %

Crown: 0.67 ft

Depth: 4.4 in.

d: 0.36 ft

Long. slope: 0.0030 (ft/ft)

N value: 0.016

Sw: 4.16 % a: 0.031 ft

Gutter Depression - lip to flowline: 0.059 ft

Local Parameters:

Local inlet flow line depression: 2.0 in.

Curb Opening Parameters:

C-O Apron wider than gutter: 0 in.

S'w 13.9 % Se: 5.09 %

Length of curb opening inlet: 12.0 ft

Lt: 15.15 ft

80 % Clear Efficiency

Curb opening flowby: 0.88 cfs

Grate Parameters:

P-1-7/8-4

Print Chart 7

Apron wider than grate: 2 in.

Length: 48 in.

Width: 22 in.

% Factor 50

% Factor 50

Splash-over Vel: 7.41 ft/s

Vel over grate: 1.86 ft/s

Eo: 85.46 %

Rs: 21.93 %

Rf: 100.00 %

Side flow captured: 0.11 cfs

Frontal captured: 0.37 cfs

Total combined CB flowby: 0.39 cfs

Street Parameters:

Q: 5.34 cfs

K: 97.5

Vel: 1.86 ft/s

Eo: 22.2 %

W/T: 0.0840

Standard Manning's:

Q: 4.40 cfs

K: 80.4

Vel: 1.54 ft/s

Rh: 0.17 ft

Area: 2.86 sf

14" Water Main - Street Flow
Beach Park Blvd.

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Parameters | Composite Triangular Sections | Head - Discharge Table | Assumptions | Inlet Geometry | Disclaimer |

Depth:
d: 0.40 ft
4.8 in.

Street Parameters:
Q: 5.34 cfs
K: 125.9
Vel: 1.54 ft/s
Eo: 20.2 %
W/T: 0.0762

Standard Manning's:
Q: 4.41 cfs
K: 103.9
Vel: 1.27 ft/s
Rh: 0.18 ft
Area: 3.47 sf

Local Parameters:
Local inlet flow line depression: 2.0 in.

Curb Opening Parameters:
C-O Apron wider than gutter: 0 in.
S'w 13.9 % Se: 4.81 %
Length of curb opening inlet: 12.0 ft
Lt: 13.45 ft
80 % Clear Efficiency
Curb opening flowby: 0.56 cfs

Grate Parameters:
P-1-7/8-4
Print Chart 7
Length: 48 in. Width: 22 in.
% Factor 50 % Factor 50
Splash-over Vel: 7.41 ft/s Vel over grate: 1.38 ft/s
Rs: 31.31 % Rf: 100.00 %
Side flow captured: 0.10 cfs Frontal captured: 0.25 cfs
Total combined CB flowby: 0.21 cfs

14" Water Main - Street Flow

Halsey Blvd

Modified Manning's Equation Solver

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Parameters | Composite Triangular Sections | Head - Discharge Table | Assumptions | Inlet Geometry | Disclaimer |

Flow line - Lateral boundary to half-street flow

Flowline offset: 32.0 ft to top face

Spread: 17.35 ft

W - lip to flowline: 17.0 in.

Depth: d: 0.37 ft

4.5 in.

Long. slope: 0.0014 (ft/ft)

N value: 0.016

Flow line - Lateral boundary to half-street flow

Crown Line - Lateral boundary to half-street flow

Sx: 2.00 %

Crown: 0.67 ft

Gutter Depression - lip to flowline: 0.059 ft

Sw: 4.16 % a: 0.031 ft

Local Parameters:

Local inlet flow line depression: 2.0 in.

Curb Opening Parameters:

C-O Apron wider than gutter: 0 in.

S'w 13.9 % Se: 5.00 %

Length of curb opening inlet: 12.0 ft

Lt: 10.70 ft

80 % Clear Efficiency

Curb opening flowby: 0.07 cfs

P-1-7/8-4

Print Chart 7

Grate Parameters:

Apron wider than grate: 2 in.

Length: 48 in. Width: 22 in.

% Factor 50 % Factor 50

Splash-over Vel: 7.41 ft/s Vel over grate: 0.73 ft/s

Eo: 100.00 %

Rs: 38.20 % Rf: 100.00 %

Side flow captured: 0.01 cfs Frontal captured: 0.03 cfs

Total combined CB flowby: 0.02 cfs

Street Parameters:

Q: 3.93 cfs

K: 105.0

Vel: 1.30 ft/s

Eo: 21.6 %

W/T: 0.0816

Standard Manning's:

Q: 3.24 cfs

K: 86.6

Vel: 1.07 ft/s

Rh: 0.17 ft

Area: 3.03 sf

12" Water Main - Street Flow
Beach Park Blvd.

Modified Manning's Equation Solver

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Quit

Parameters | Composite Triangular Sections | Head - Discharge Table | Assumptions | Inlet Geometry | Disclaimer

Flow line - Lateral boundary to half-street flow
Crown Line - Lateral boundary to half-street flow
Flowline offset: 20.0 ft to top face
Spread: 17.13 ft
W - lip to flowline: 17.0 in.
Sx: 2.00 %
Crown: 0.43 ft
Depth: 4.5 in.
d: 0.37 ft
Long. slope: 0.0015 (ft/ft)
N value: 0.016
Sw: 4.16 % **a:** 0.031 ft
Gutter Depression - lip to flowline: 0.059 ft

Local Parameters:
 Local inlet flow line depression: 2.0 in.

Curb Opening Parameters:
 C-O Apron wider than gutter: 0 in.
 S'w 13.9 % Se: 5.04 %
 Length of curb opening inlet: 12.0 ft
 Lt: 10.88 ft
 80 % Clear Efficiency 97.9 %
 Curb opening flowby: 0.08 cfs

Grate Parameters:
 P-1-7/8-4
 Print Chart 7
 Length: 48 in. Width: 22 in.
 % Factor 50 % Factor 50
 Splash-over Vel: 7.41 ft/s Vel over grate: 0.79 ft/s
 Eo: 100.00 %
 Rs: 36.72 % Rf: 100.00 %
 Side flow captured: 0.02 cfs Frontal captured: 0.04 cfs
 Total combined CB flowby: 0.03 cfs

Street Parameters:
Q: 3.93 cfs
 K: 101.5
 Vel: 1.33 ft/s
 Eo: 21.9 %
 W/T: 0.0827

Standard Manning's:
Q: 3.24 cfs
 K: 83.7
 Vel: 1.10 ft/s
 Rh: 0.17 ft
 Area: 2.95 sf

12" Water Main - Street Flow
 Catamaran St.

Modified Manning's Equation Solver

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Parameters | Composite Triangular Sections | Head - Discharge Table | Assumptions | Inlet Geometry | Disclaimer

The diagram illustrates a street cross-section with a central gutter and side flow areas. Key dimensions include a flowline offset of 19.0 ft to the top face, a spread of 19.00 ft, a crown height of 0.41 ft, and a gutter depression of 0.059 ft. Slopes are given as Sx: 2.00% and Sw: 4.16%. A long slope of 0.0008 (ft/ft) and an N value of 0.016 are also specified. The depth of the gutter is 5.0 in.

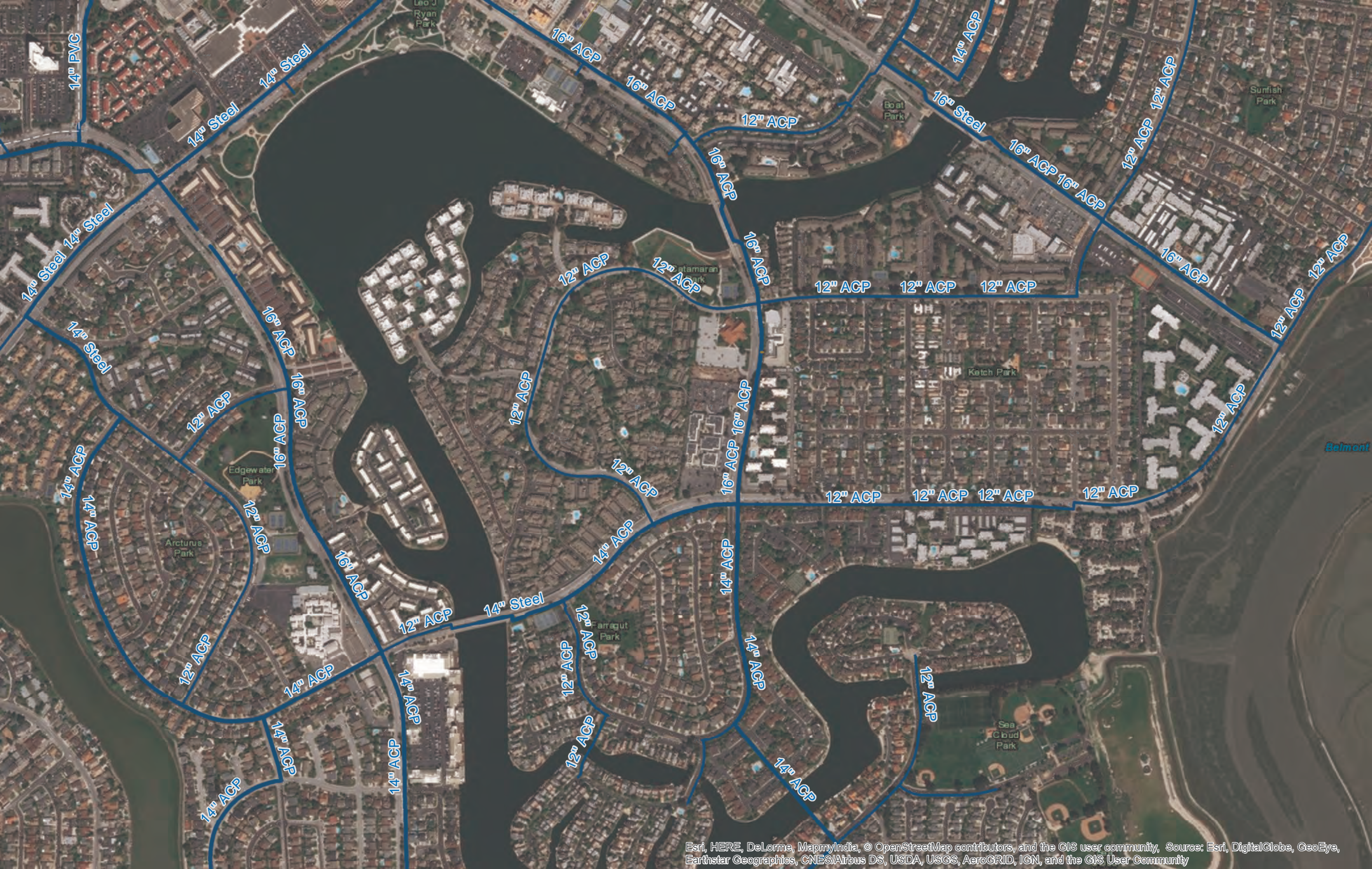
Street Parameters:		Standard Manning's:		Local Parameters:		Curb Opening Parameters:		Grate Parameters:	
Q:	3.93 cfs	Q:	3.28 cfs	Local inlet flow line depression:	2.0 in.	C-O Apron wider than gutter:	0 in.	Length:	48 in.
K:	138.9	K:	115.8	S'w	13.9 %	Se	4.71 %	% Factor	50
Vel:	1.05 ft/s	Vel:	0.88 ft/s	Length of curb opening inlet:	12.0 ft	Lt:	9.39 ft	Splash-over Vel:	7.41 ft/s
Eo:	19.4 %	Rh:	0.19 ft	% Clear Efficiency	80 %	100.0 %		Vel over grate:	N/A ft/s
W/T:	0.0746	Area:	3.74 sf	Curb opening flowby:	0.00 cfs			Eo:	N/A %
								Rs:	N/A %
								Rf:	100.00 %
								Side flow captured:	0.01 cfs
								Frontal captured:	0.02 cfs
								Total combined CB flowby:	N/A cfs

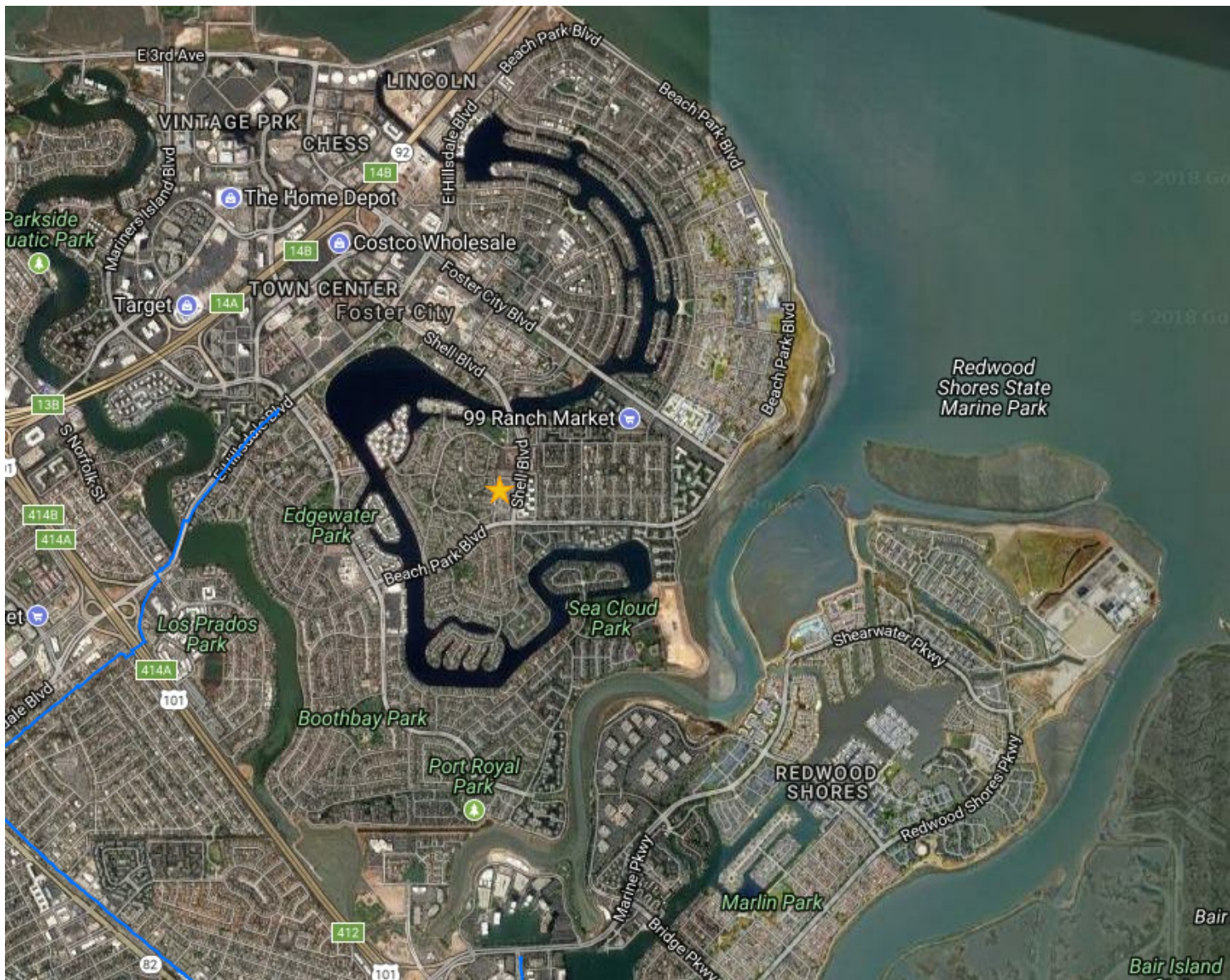
12" water Main - Street Flow
Farragut Blvd.

Appendix B – Agency Correspondence



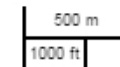
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Legend

- Gas Transmission Pipelines
- Hazardous Liquid Pipelines



Pipelines depicted on this map represent gas transmission and hazardous liquid lines only. Gas gathering and gas distribution systems are not represented.

This map should never be used as a substitute for contacting a one-call center prior to excavation activities. Please call 811 before any digging occurs.

Questions regarding this map or its contents can be directed to npms@dot.gov.

Projection: Geographic

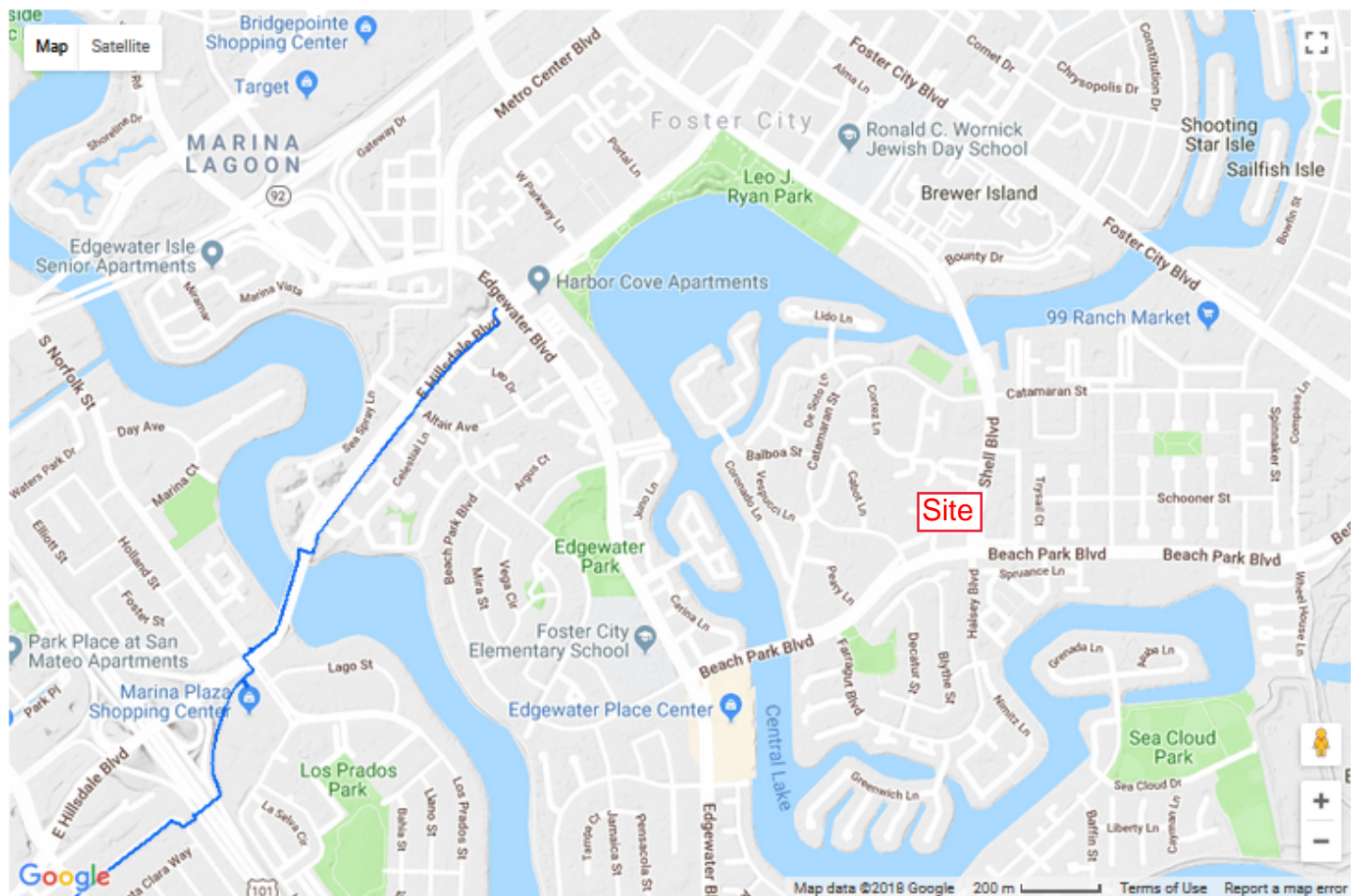
Datum: NAD83

Map produced by the Public Viewer application at www.npms.phmsa.dot.gov

Date Printed: Mar 16, 2018



The following interactive map shows pipelines in your neighborhood:



ADDRESS

Enter Address

60



Searched location

Natural Gas Transmission Pipelines

The blue pipeline sections represent PG&E's natural gas transmission pipeline system in California

From: Liu, Steven
To: [Steve Bush](#); [Kwan, Jason](#); [Robert Price](#)
Cc: [Lavezzo, Kathy](#); [Laurie Yee](#); [Steve Noack](#)
Subject: RE: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST
Date: Monday, May 21, 2018 2:26:38 PM

Hi Steve,

For background, some technical details: our “transmission definition” has historically been based on pressure. The current transmission definition (updated in 2017) actually relies mainly on %SMYS and whether or not that gas’ source and destination is defined as a transmission asset. This new definition still encompasses the VAST majority of pipes that operate above 60psig (as well as some operating below).

Regardless of the technicalities of our transmission definition, I just had a conversation with my gas distribution GIS counterpart, and our understanding is that our GIS systems are still being divided by the 60psig specification, so even if the pipes are technically classified as distribution, anything above 60psig is still maintained by our gas transmission GIS system rather than the gas distribution GIS system. All of this is to say that ultimately, any data on pipes 60+psig still comes from transmission GIS, while gas distribution GIS maintains assets < 60psig. To be even more clear, the SHP (semi-high pressure) and HP (high pressure) distribution specifications are as follows:

SHP: about 0.3 - 25 psig

HP: 25 - 60psig

I hope that provides the clarity you’re looking for!

-steve

From: Steve Bush [mailto:sbush@placeworks.com]
Sent: Monday, May 21, 2018 11:08 AM
To: Kwan, Jason; Robert Price; Liu, Steven
Cc: Lavezzo, Kathy; Laurie Yee; Steve Noack
Subject: RE: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

*******CAUTION:** This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*****

Hi Jason,

We are preparing a pipeline risk analysis for the San Mateo Foster City School District, per the State Board of Education’s Title 5 requirements (CCR Title 5, Section 14010h). The Department of Education guidance requires evaluation of all high pressure natural gas pipelines within 1,500 feet of the school site. However, CDE’s defines a high pressure line as a pipeline operating at a pressure of 80 psig or higher. I was told previously that PG&E classifies pipelines as transmission lines primarily based on pressure (Steve Liu, is that correct?), and that anything greater than 60 psig is considered a transmission pipeline.

Thus, if the identified high-pressure distribution pipelines shown in the provided map are under 80 psig (or under 60 psig), than they would not need to be evaluated per CDE requirements.

Regards,
STEVE BUSH, PE
Senior Engineer

1625 Shattuck Avenue, Suite 300 | Berkeley, California 94709
510.848.3815 Ext. 3316 | sbush@placeworks.com | placeworks.com

From: Kwan, Jason [mailto:JDK6@pge.com]
Sent: Monday, May 21, 2018 9:31 AM
To: Steve Bush; Robert Price
Cc: Lavezzo, Kathy; Laurie Yee; Steve Noack
Subject: RE: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

Hi Steve,

Please provide additional detail as to why you would want to know the pressure of the gas line. All of PG&E gas lines are high pressure and the definition of pressure is relative to the organization.

Jason Kwan | Senior New Business Representative – Service Planning
Pacific Gas & Electric Company
275 Industrial Road, San Carlos, CA 94070
650-830-1475 | Jason.Kwan2@pge.com



GREENBOOK GAS & ELECTRIC REQUIREMENTS

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From: Steve Bush [mailto:sbush@placeworks.com]
Sent: Wednesday, May 16, 2018 9:42 AM
To: Kwan, Jason <JDK6@pge.com>; Robert Price <rprice@smfc.k12.ca.us>
Cc: Lavezzo, Kathy <KOL1@pge.com>; Laurie Yee <LYee@cde.ca.gov>; Steve Noack <snoack@placeworks.com>
Subject: RE: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

*******CAUTION:** This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*****

Good Morning,

Thank you for the response. I have a few follow up questions regarding the gas map. In reviewing the map and provided gas symbology, it looks like there are a number of high-pressure gas distribution pipelines in vicinity of the school site (for instance Line GM432823 along Shell Blvd).

What is the PG&E pressure which distinguishes whether a line is semi high-pressure or high-

pressure?

Can you verify whether the maximum allowable operating pressure or operating pressure for shown high-pressure distribution lines in the area are over 80 psi?

Regards,
STEVE BUSH, PE
Senior Engineer

1625 Shattuck Avenue, Suite 300 | Berkeley, California 94709
510.848.3815 Ext. 3316 | sbush@placeworks.com | placeworks.com

From: Kwan, Jason [<mailto:JDK6@pge.com>]
Sent: Wednesday, May 16, 2018 8:31 AM
To: Robert Price
Cc: Lavezzo, Kathy; Laurie Yee; Steve Bush; Steve Noack
Subject: RE: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

Please see attached.

Jason Kwan | Senior New Business Representative – Service Planning
Pacific Gas & Electric Company
275 Industrial Road, San Carlos, CA 94070
650-830-1475 | Jason.Kwan2@pge.com



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From: Robert Price [<mailto:rprice@smfc.k12.ca.us>]
Sent: Tuesday, May 15, 2018 2:41 PM
To: Kwan, Jason <JDK6@pge.com>
Cc: Lavezzo, Kathy <KOL1@pge.com>; Laurie Yee <LYee@cde.ca.gov>; Steve Bush <sbush@placeworks.com>; snoack@placeworks.com
Subject: RE: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

*******CAUTION:** This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*****

Jason,

Were you able to get an update on this request?

When can we expect the information?

It's been 6 weeks from the original request date of April 3, 2018

Thanks,
Bob

From: Kwan, Jason [<mailto:JDK6@pge.com>]
Sent: Friday, May 11, 2018 8:38 AM
To: Robert Price <rprice@smfc.k12.ca.us>
Cc: Lavezzo, Kathy <KOL1@pge.com>; Laurie Yee <LYee@cde.ca.gov>; Steve Bush <sbush@placeworks.com>; snoack@placeworks.com
Subject: RE: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

I will send another e-mail to map delineations on your behalf requesting an update on your request.

Once the maps are completed, they will automatically be forwarded to the requestor.

Jason Kwan | Senior New Business Representative – Service Planning
Pacific Gas & Electric Company
275 Industrial Road, San Carlos, CA 94070
650-830-1475 | Jason.Kwan2@pge.com



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From: Robert Price [<mailto:rprice@smfc.k12.ca.us>]
Sent: Friday, May 11, 2018 8:32 AM
To: Kwan, Jason <JDK6@pge.com>
Cc: Lavezzo, Kathy <KOL1@pge.com>; Laurie Yee <LYee@cde.ca.gov>; Steve Bush <sbush@placeworks.com>; snoack@placeworks.com
Subject: RE: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

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Jason,

Do we have an update on our request?

Thanks,
Bob

From: Kwan, Jason [<mailto:JDK6@pge.com>]
Sent: Tuesday, April 10, 2018 8:23 AM
To: Robert Price <rprice@smfc.k12.ca.us>
Cc: Lavezzo, Kathy <KOL1@pge.com>; Laurie Yee <LYee@cde.ca.gov>
Subject: RE: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

Submitted 04/03/18

Jason Kwan | Senior New Business Representative – Service Planning
Pacific Gas & Electric Company
275 Industrial Road, San Carlos, CA 94070
650-830-1475 | Jason.Kwan2@pge.com



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From: Robert Price [<mailto:rprice@smfc.k12.ca.us>]
Sent: Tuesday, April 10, 2018 8:16 AM
To: Kwan, Jason <JDK6@pge.com>
Cc: Lavezzo, Kathy <KOL1@pge.com>; Laurie Yee <LYee@cde.ca.gov>
Subject: Re: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

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Jason,

Ok, thanks.

What date was it submitted?

Thanks,
Bob Price

Sent from my Sprint Phone.

----- Original message -----


From: "Kwan, Jason" <JDK6@pge.com>
Date: 4/10/18 6:24 AM (GMT-08:00)
To: Robert Price <rprice@smfc.k12.ca.us>
Cc: "Lavezzo, Kathy" <KOL1@pge.com>, Laurie Yee <LYee@cde.ca.gov>
Subject: RE: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

Your map request has been submitted for processing. The department which handles these requests will be forwarding the maps directly to you when completed. The typical lead time for maps has been 3-4 weeks, sometimes longer depending on the nature and size of the request.

Jason Kwan | Senior New Business Representative – Service Planning
Pacific Gas & Electric Company
275 Industrial Road, San Carlos, CA 94070
650-830-1475 | Jason.Kwan2@pge.com



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From: Robert Price [<mailto:rprice@smfc.k12.ca.us>]
Sent: Monday, April 09, 2018 6:12 PM
To: Kwan, Jason <JDK6@pge.com>
Cc: Lavezzo, Kathy <KOL1@pge.com>; Laurie Yee <LYee@cde.ca.gov>
Subject: RE: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

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Jason,

How's the request coming along? – would like to wrap up this question from CDE this week if possible.

Thanks,
Bob Price
(650) 312-7499 – office
(650) 278-7060 - cell

1410 South Amphlett Blvd.
San Mateo, CA 94402



SAN MATEO-FOSTER CITY SCHOOL DISTRICT

From: Kwan, Jason [<mailto:JDK6@pge.com>]
Sent: Tuesday, April 03, 2018 6:07 AM
To: Robert Price <rprice@smfc.k12.ca.us>
Cc: Lavezzo, Kathy <KOL1@pge.com>; Laurie Yee <LYee@cde.ca.gov>
Subject: RE: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

Hi Bob,

The department handling your map search is requesting you provide a map for the location of your search.

Thank you,

Jason Kwan | Senior New Business Representative – Service Planning
Pacific Gas & Electric Company
275 Industrial Road, San Carlos, CA 94070
650-830-1475 | Jason.Kwan2@pge.com



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From: Robert Price [<mailto:rprice@smfc.k12.ca.us>]
Sent: Thursday, March 15, 2018 1:06 PM
To: Kwan, Jason <JDK6@pge.com>
Cc: Lavezzo, Kathy <KOL1@pge.com>; Laurie Yee <LYee@cde.ca.gov>
Subject: RE: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

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Jason,

Yes, that's right.

Laurie,

Please correct me if I'm wrong.

Thanks,

Bob

From: Kwan, Jason [<mailto:JDK6@pge.com>]
Sent: Thursday, March 15, 2018 12:50 PM
To: Robert Price <rprice@smfc.k12.ca.us>
Cc: Lavezzo, Kathy <KOL1@pge.com>; Laurie Yee <LYee@cde.ca.gov>
Subject: RE: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

Hi Bob,


To clarify, you are only looking for gas lines?

Thanks,

Jason Kwan | Senior New Business Representative – Service Planning
Pacific Gas & Electric Company
275 Industrial Road, San Carlos, CA 94070
650-830-1475 | Jason.Kwan2@pge.com



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From: Robert Price [<mailto:rprice@smfc.k12.ca.us>]
Sent: Thursday, March 15, 2018 9:40 AM
To: Kwan, Jason <JDK6@pge.com>
Cc: Lavezzo, Kathy <KOL1@pge.com>; Laurie Yee <LYee@cde.ca.gov>

Subject: RE: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

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Jason,

Please see answers below –

- 1) Full Name of the requesting party/customer – San Mateo-Foster City School District/Bob Price
- 2) Name of the requesting company – San Mateo-Foster City School District
- 3) Brief description of project (what work is being done) – Replacing existing shopping center with a K-5 School
- 4) Location (map preferred) with Address/Cross Streets or APN's, Project Boundaries and the City the project is located in – Corner of Beach Park Blvd. and Shell Blvd. in Foster City
- 5) Signed NDA (non-disclosure agreement) - NDA's are valid for one year - ATTACHED

Please let me know if you need anything else.

Thanks,

Bob Price

(650) 312-7499 – office

(650) 278-7060 - cell

1410 South Amphlett Blvd.

San Mateo, CA 94402



**SAN MATEO-FOSTER CITY
SCHOOL DISTRICT**

From: Kwan, Jason [<mailto:JDK6@pge.com>]

Sent: Thursday, March 15, 2018 9:19 AM

To: Robert Price <rprice@smfc.k12.ca.us>

Cc: Lavezzo, Kathy <KOL1@pge.com>

Subject: FW: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

FYI

Jason Kwan | Senior New Business Representative – Service Planning
Pacific Gas & Electric Company

275 Industrial Road, San Carlos, CA 94070
650-830-1475 | Jason.Kwan2@pge.com



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From: Kwan, Jason
Sent: Thursday, March 15, 2018 8:52 AM
To: lyee@cde.ca.gov
Cc: Lavezzo, Kathy <KOL1@pge.com>
Subject: 1050 SHELL BLVD., FOSTER CITY MAP REQUEST

Hi Laurie,

I have been forwarded your request regarding a gas map to locate a gas line at 1050 Shell Boulevard in Foster City. I will be happy to assist you with your request.

For **every** request received, the following information is required:

- 1) Full Name of the requesting party/customer
- 2) Name of the requesting company
- 3) Brief description of project (what work is being done)
- 4) Location (map preferred) with Address/Cross Streets or APN's, Project Boundaries and the City the project is located in
- 5) Signed NDA (non-disclosure agreement) - NDA's are valid for one year

Thank you,

Jason Kwan | Senior New Business Representative – Service Planning
Pacific Gas & Electric Company
275 Industrial Road, San Carlos, CA 94070
650-830-1475 | Jason.Kwan2@pge.com



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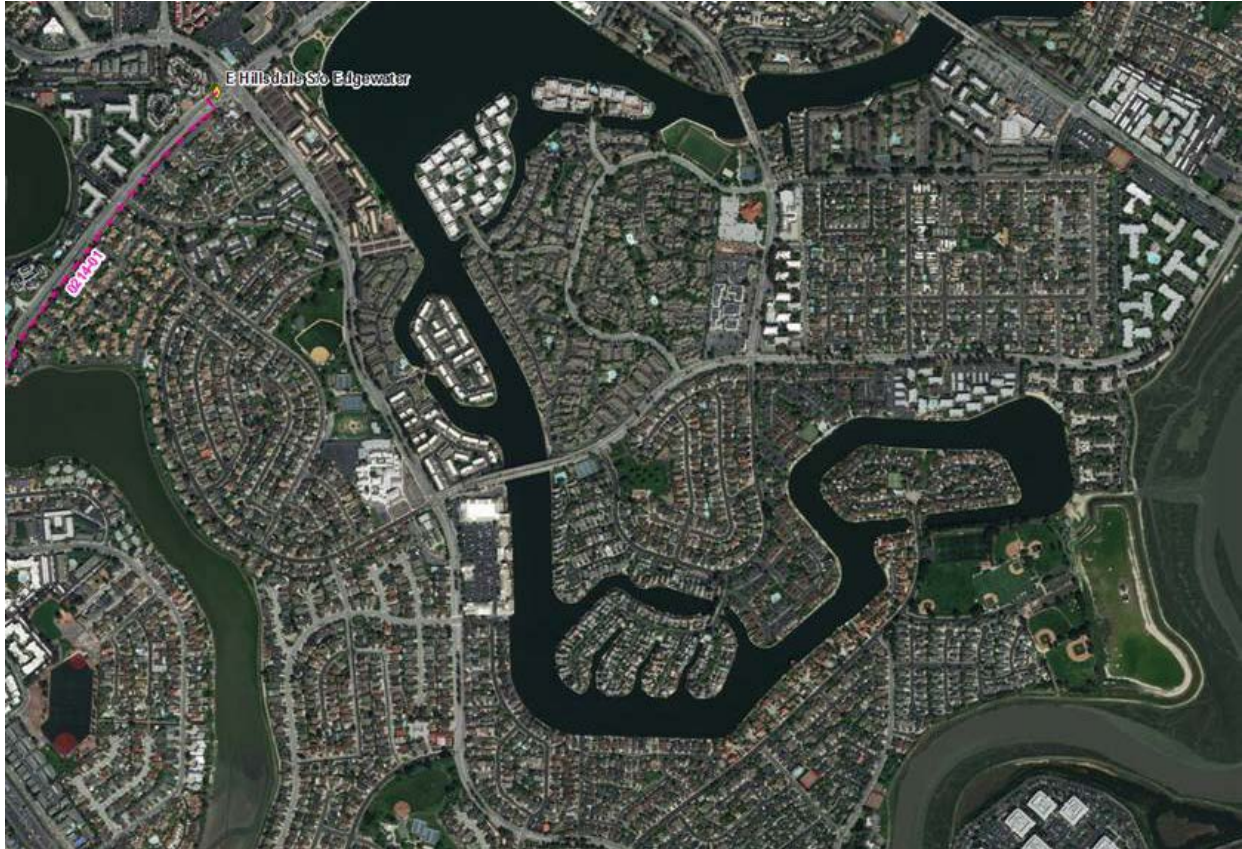
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From: Liu, Steven
To: [Steve Bush](#)
Subject: RE: Foster City Pipeline Question
Date: Wednesday, April 4, 2018 9:20:01 AM

Hi Steve,

I took another look and there's nothing in our database that resembles that line, abandoned or not. Here's a screenshot of the area:



Curiously, PennWell also doesn't have anything in their provided map that looks like line 0214-01 that runs along Hillsdale blvd to the NW of the site (it's over 3500ft away so not in proximity of the site).

-steve

From: Steve Bush [mailto:sbush@placeworks.com]
Sent: Wednesday, April 04, 2018 8:48 AM
To: Liu, Steven
Subject: RE: Foster City Pipeline Question

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Hi Steve,

That makes sense. If you could check if it's abandoned that would be great. I contacted EDR (data resource firm), which stated the source of their pipeline information was PennWell Corp. PennWell communicated to EDR that the line was a PG&E line. So just trying to close the loop.

Thanks,
STEVE BUSH, PE
Senior Engineer

1625 Shattuck Avenue, Suite 300 | Berkeley, California 94709
510.848.3815 Ext. 3316 | sbush@placeworks.com | placeworks.com

From: Liu, Steven [<mailto:S3Lg@pge.com>]
Sent: Tuesday, April 3, 2018 5:19 PM
To: Steve Bush
Subject: RE: Foster City Pipeline Question

Hi Steve,

PG&E classifies pipes as transmission based primarily on pressure. Anything greater than 60psig is considered transmission pipe (we do have some transmission pipe that are less than that). If I recall correctly, these school site evaluations are looking for anything greater than 80psig, so any pipe you'd be interested in for that purpose would definitely qualify as transmission. If you'd still like to cross check with distribution, I can forward your request to our gas ops support team so they can route it to the distribution group, but considering the configuration of the pipe on the map (cutting clean through multiple subdivisions and through large-ish waterways), it doesn't look like a local distribution pipe to me. If it makes a difference to you, I could check tomorrow to see if it's an abandoned transmission pipe.

-steve

From: Steve Bush [<mailto:sbush@placeworks.com>]
Sent: Tuesday, April 03, 2018 2:49 PM
To: Liu, Steven
Subject: RE: Foster City Pipeline Question

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Steve,

Could the pipeline be a high pressure distribution pipeline? Does PG&E have different departments for transmission and distribution?

Thanks,
STEVE BUSH, PE
Senior Engineer

1625 Shattuck Avenue, Suite 300 | Berkeley, California 94709
510.848.3815 Ext. 3316 | sbush@placeworks.com | placeworks.com

From: Liu, Steven [<mailto:S3Lg@pge.com>]
Sent: Wednesday, March 28, 2018 5:15 PM
To: Alexis Whitaker
Cc: Steve Bush
Subject: RE: Foster City Pipeline Question

Hi Alexis,

According to our database, there are no gas transmission lines within 1500 ft of the site, let alone 250 ft SE of it. I don't know what sort of database was queried by the previous consultant, but if there is a pipe there, it is not a natural gas transmission pipeline that belongs to PG&E.

-steve

From: Alexis Whitaker [<mailto:awhitaker@placeworks.com>]
Sent: Wednesday, March 28, 2018 3:11 PM
To: Liu, Steven
Cc: Steve Bush
Subject: Foster City Pipeline Question

*******CAUTION:** This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*****

Hi Steve,

We have been contracted by the San Mateo Foster City School District to identify safety hazards related to any pipelines located within 1,500 feet of the proposed Elementary School at Charter Square in Foster City, CA. In researching pipelines in the area, we have found a discrepancy that we would like to resolve. The Phase 1 Environmental Site Assessment Report identified a natural gas pipeline within the 1,500-foot radius of concern of the project site, approximately 250 feet to the southeast. However, this pipeline does not appear on the NPMS website. Both the pipeline map from the previous consultant and the NPMS map are attached to this email for reference.

We are following up with the school district's previous consultant, but wanted to clarify with you. Can you verify whether there is a pipeline approximately 250 feet from the site? If it exists, is it active?

Thank you,
Alexis Whitaker

ALEXIS WHITAKER, LEED AP
Environmental Scientist
Air Quality, GHG, & Risk Assessment

1625 Shattuck Avenue, Suite 300 | Berkeley, California 94709
510.848.3815 | Ext. 3315 | awhitaker@placeworks.com | placeworks.com

From: Cauguiran, Aimee
To: [Finch, Thomas \(PHMSA\)](#); [Alexis Whitaker](#)
Cc: [Allen, Doug](#)
Subject: RE: Pipeline Question
Date: Thursday, March 29, 2018 2:00:54 PM

Hi,

I just checked both the NPMS public viewer and the PG&E maps for natural gas transmission pipelines within the vicinity identified in the map. Both maps (NPMS and PG&E) showed the same NG transmission pipeline location – approximately along Hillsdale Blvd between S Delaware and Edgewater. I did not find records showing a natural gas transmission pipeline as depicted in the maps provided in the email.

PG&E website: https://www.pge.com/en_US/safety/how-the-system-works/natural-gas-system-overview/gas-transmission-pipeline/gas-transmission-pipelines.page
NPMS public viewer: <https://pvnpm.phmsa.dot.gov/PublicViewer/>

Regards,

Aimee

*Aimee Cauguiran
Sr. Utilities Engineer - Supervisor
Gas Safety and Reliability Branch
Safety and Enforcement Division*

From: Finch, Thomas (PHMSA) [mailto:Thomas.Finch@dot.gov]
Sent: Thursday, March 29, 2018 12:51 PM
To: Alexis Whitaker
Cc: Cauguiran, Aimee; Allen, Doug
Subject: RE: Pipeline Question

Welcome, Alexis.

Thanks for this additional map. Have you or one of your associates tried to follow the route of this map? If so you would probably see pipeline markers at road crossings and along the line that will tell you who owns the pipeline.

Regards,
Tom Finch

From: Alexis Whitaker [<mailto:awhitaker@placeworks.com>]

Sent: Thursday, March 29, 2018 1:33 PM

To: Finch, Thomas (PHMSA) <Thomas.Finch@dot.gov>

Cc: aimee. cauguiran (aimee.cauguiran@cpuc.ca.gov) <aimee.cauguiran@cpuc.ca.gov>; Allen, Doug <Doug.Allen@fire.ca.gov>

Subject: RE: Pipeline Question

Thanks for forwarding the question, Tom.

I wanted to include a clearer map of the pipeline we are talking about. I've attached the NPMS maps, as well as maps we received from the consultant that completed the Phase 1 assessment.

Best,

Alexis Whitaker

From: Finch, Thomas (PHMSA) [<mailto:Thomas.Finch@dot.gov>]

Sent: Wednesday, March 28, 2018 3:20 PM

To: Alexis Whitaker

Cc: aimee. cauguiran (aimee.cauguiran@cpuc.ca.gov); Allen, Doug

Subject: FW: Pipeline Question

Hello Alexis,

I am busy at a Seminar. If the pipeline is not on our NPMS if it is natural gas the CA PUC may be able to help you. If it is a hazardous liquids pipeline the CA State Fire Marshal may be able to help you help you.

I have copied both the CAPUC and the CASFM. They are both very proficient and will contact you regarding this pipeline if they know more about it.

If you have any questions or desire additional information please contact me.

Best regards,

Tom

Tom Finch

Community Liaison, Western Region

U.S. Department of Transportation

Pipeline & Hazardous Materials Safety Administration (PHMSA)

e-mail: thomas.finch@dot.gov

Tel: 303-807-7200

<http://www.phmsa.dot.gov>



From: PHMSA NPMS
Sent: Wednesday, March 28, 2018 2:05 PM
To: Finch, Thomas (PHMSA) <Thomas.Finch@dot.gov>
Subject: FW: Pipeline Question

Sorry about that!!!

Katie

From: Alexis Whitaker [<mailto:awhitaker@placeworks.com>]
Sent: Tuesday, March 27, 2018 6:57 PM
To: PHMSA NPMS <npms@dot.gov>
Cc: Steve Bush <sbush@placeworks.com>
Subject: Pipeline Question

To Whom it May Concern,

My name is Alexis Whitaker, and my firm has been contracted by the San Mateo Foster City School District to identify safety hazards related to any pipelines located within 1,500 feet of the proposed Elementary School at Charter Square. In researching pipelines in the area, we have found a discrepancy that we would like to resolve. The Phase 1 Environmental Site Assessment Report identified a natural gas pipeline within the 1,500-foot radius of concern of the project site, approximately 250 feet to the southeast. However, this pipeline does not appear on the NPMS website. Both the pipeline map from the previous consultant and the NPMS map are attached to this email for reference.

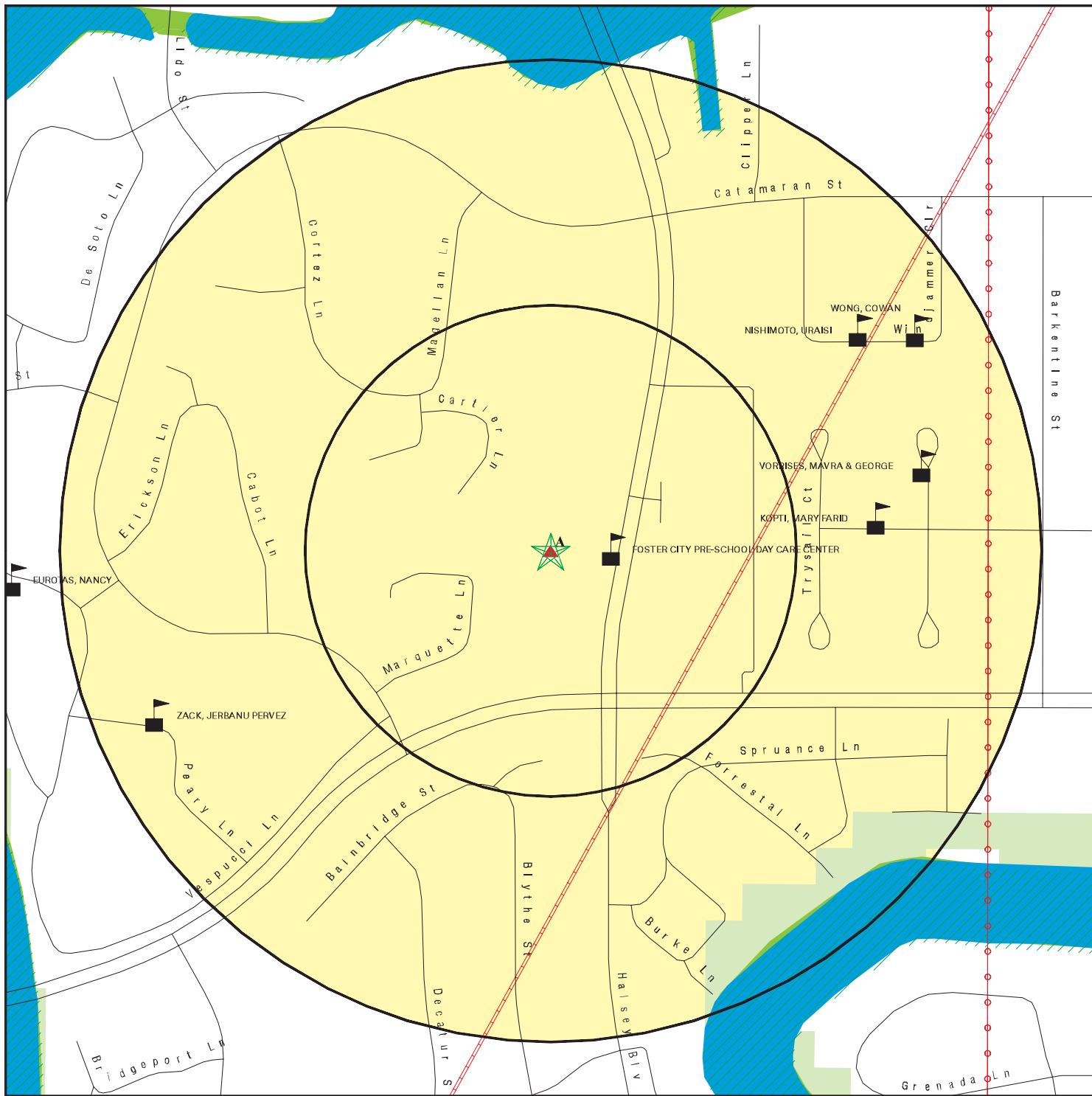
We are following up with the school district's previous consultant, but wanted to clarify with you. Can you verify whether there is a pipeline approximately 250 feet from the site? If it exists, is it active and who operates it?

Thank you,
Alexis

ALEXIS WHITAKER, LEED AP
Environmental Scientist
Air Quality, GHG, & Risk Assessment

1625 Shattuck Avenue, Suite 300 | Berkeley, California 94709
510.848.3815 | Ext. 3315 | awhitaker@placeworks.com | placeworks.com

DETAIL MAP - 4744473.2S



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This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

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CONTACT REPORT FORM

DATE:	<u>4/3/2018</u>	JOB No.:	<u>SMFC-01.0</u>
CONTACT:	<u>Di Casian</u>	Phone No.:	<u>(203) 225-1941</u>
AGENCY/CO.:	<u>EDR</u>	CONTACT BY:	<u>Steve Bush</u>
SUBJECT:	<u>Water Pipeline Safety Hazard Assessment for New Elementary School at Charter Square</u>		

KEY POINTS DISCUSSED: Over the phone, Di Casian of EDR informed me that EDR had contacted PennWell Corporation (PennWell) to determine the owner of the natural gas pipeline identified in the 2016 EDR Radius Map Report for the project. PennWell, which was the source of the pipeline information included in the 2016 EDR report, communicated that the pipeline was a natural gas distribution pipeline owned by Pacific Gas and Electric (PG&E). Steve Liu of PG&E confirmed that the pipeline depicted in the 2016 EDR report is not a high pressure natural gas transmission pipeline that belongs to PG&E.

REQUIRED ACTION: None.

CC: _____