

ROGERS JOSEPH O'DONNELL

March 5, 2014

VIA E-MAIL AND FEDERAL EXPRESS

jtownsend@waterboards.ca.gov

Jeanine Townsend
Clerk of the Board
State Water Resources Control Board
1001 I Street, 24th Floor
Sacramento, CA 95814

Re: Initial Comments of Chevron U.S.A. Inc. – Petition of Zief Foundation, Proposed Order Directing Reopening of Underground Storage Tank (UST) Case and Further Corrective Action at Former Chevron Service Station Located at 2009 South El Camino Real, San Mateo, Case No. 9-7863 dated February 20, 2014 – April 1, 2014 Board Meeting

Dear Ms. Townsend:

I write to provide the initial comments of Chevron U.S.A. Inc. (“Chevron”) on the State Water Resources Control Board’s Proposed Order Directing Reopening of Underground Storage Tank (UST) Case and Further Corrective Action at Former Chevron Service Station Located at 2009 South El Camino Real, San Mateo, Case No. 9-7863 dated February 20, 2014 (“Draft Order”).

The Draft Order grants the Arthur Zief, Jr. Foundation’s February 15, 2011, Petition, which sought review of San Mateo County Health System’s (Groundwater Protection Program) (“County”) January 18, 2011, Case Closure letter stating that no further action is required at a former Chevron-branded service station property located at 2009 S. El Camino Real, San Mateo. The Draft Order recognizes that the Petition was deemed denied because the State Water Board failed to act on it within 270 days. (Health and Safety Code § 25297.1(d)(3), Water Code § 13320, and State Water Board Resolution 88-23; *See also* 23 California Code of Regulations § 2050.5(b).)

The Draft Order does not acknowledge that in December 2013 Chevron, with the approval of the City of San Mateo and Petitioner, undertook significant work to eliminate groundwater from entering the sump on the Petitioner’s property.¹

Nor does the Draft Order acknowledge that the City, Petitioner and Chevron have agreed to a schedule of confirmation sampling over the next twelve months to evaluate whether this work successfully eliminated groundwater from entering the sump. Pending

¹ The Draft Order repeatedly states that this work has not been conducted, which is not correct. (Order, pp. 10, 12, 13.)



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this confirmation, the sump continues to discharge to the City's sanitary sewer system, where it undergoes treatment. The effluent from the sump is well within limits of the discharge permit issued by the City to Chevron, as it has been since the permit was first issued in 1998.

I have attached the following documents concerning the implementation of the work that was completed in December, and the agreements reached among the stakeholders (Petitioner, the City of San Mateo and Chevron) concerning the work that has been implemented and the confirmation sampling schedule:

- Exhibit 1: Letter from Brandon Wilken, Conestoga-Rovers & Associates ("CRA"), to Larry A. Paterson, San Mateo Department of Public Works. This letter includes the approved storm water construction design (Attachment A) and the City of San Mateo Building Permit (Attachment B).
- Exhibit 2: Email from Ray Towne, Acting Director, San Mateo Department of Public Works, dated November 8, 2013, to multiple recipients, transmitting October 24, 2013, Meeting Notes.
- Exhibit 3: Email from Ray Towne, Acting Director, San Mateo Department of Public Works, dated November 22, 2013, to multiple recipients, transmitting November 22, 2013, Meeting Notes.
- Exhibit 4: Self-Monitoring Report – Fourth Quarter 2013, dated January 30, 2014. This report includes confirmation that construction to replace the sump and storm water conveyance system was completed December 23, 2013.²

In addition, we are unaware of any authority that permits the State Water Board to revive a petition that has been deemed denied. Here, the State Water Board acknowledged receipt of the Petition on March 9, 2011, meaning that the Petition was deemed denied on December 5, 2011. (Health and Safety Code § 25297.1(d)(3), Water Code § 13320, State Water Board Resolution 88-23; *See also* 23 California Code of Regulations § 2050.5(b).) This denial then triggered the time for Petitioner to seek review of the State Water Board's action by filing a petition for writ of mandate. (Water Code § 13330(a); *See also* Health and Safety Code § 25296.40(b)). Petitioner did not file a petition for writ of mandate challenging the denial. The denial of the Petition is thus final. The Draft Order states that the State Water Board is "reviewing the petition on its own motion," relying on Resolution 88-23. Resolution 88-23 allows the State Water Board to "review any local agency's action or failure to act" "on its own motion," but it does not provide for a petition to be revived more

² There are additional factual and legal errors in the Draft Order that will be further discussed in subsequent comments, if necessary.

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than two years after its denial. In addition, we are aware of no authority that allows the State Water Board to review a local agency action more than three years after the action was taken, and two years after having denied a petition challenging that action.

Notwithstanding these issues, Chevron recognizes the value in having the Local Oversight Program, the County, involved in the evaluation of the work that Chevron has implemented to isolate Petitioner's storm drain system, and to continue its oversight role for this site, including evaluating any future closure request. Thus, Chevron has requested that the County reopen this case. A copy of a letter dated March 5, 2014, from Brian Waite of Chevron Environmental Management Company to Charles Ice of the County making this request is attached as Exhibit 5.

Currently, the State Water Board is scheduled to consider adoption of the Draft Order at a public meeting scheduled for Tuesday April 1, 2014. Given the additional information included in this letter that was not considered in preparing the Draft Order, and Chevron's request that the County reopen this case, Chevron respectfully requests that the State Water Board remove the Draft Order from its April 1, 2014, calendar. Chevron is also willing to meet with State Water Board staff and the stakeholders (Petitioner, the City, and the County) to further discuss the site, if State Water Board staff believes that is appropriate.

We very much appreciate your consideration of these comments and our request that this matter be removed from the State Water Board's April 1, 2014, calendar. Chevron anticipates the submission of additional comments before the stated deadline of 12:00 p.m. on Friday, March 28, 2014, and plans to appear to provide testimony at the hearing on April 1, 2014, if the matter is considered by the State Water Board at its April 1, 2014, meeting.

Please contact me or my colleague Kevin Shipp if you have any questions.

Thank you.

Very truly yours,



ROBERT C. GOODMAN

Enclosures

cc (via e-mail):

Nathan Jacobsen, Esq.
Herman I. Kalfen, Esq., counsel for Petitioner
Charles Ice – San Mateo County Groundwater Protection Program
Mr. Larry Patterson – City Manager, City of San Mateo

EXHIBIT 1



**CONESTOGA-ROVERS
& ASSOCIATES**

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
<http://www.craworld.com>

October 10, 2013

Reference No. 311544

Mr. Larry Patterson
City of San Mateo
Department of Public Works Director
330 West 20th Avenue
San Mateo, California 94403

Re: Former Chevron Service Station #97863
20 East 20th Avenue
San Mateo, California
Facility ID: 20th East 20th Avenue Site

Dear Mr. Larry Patterson:

Conestoga-Rovers & Associates (CRA), on behalf of Chevron Environmental Management Company (CEMC), submits this letter in response to your letter dated September 3, 2013, regarding *Discharges from Sump Pump at East 20th Avenue, San Mateo* (Attachment A). Among other things, the City of San Mateo (City) directed that CEMC "eliminate both groundwater and storm water discharges into the sanitary sewer collection system" at the Zief Family Trust building located at 20 E. 20th Street, San Mateo (Zief Property). The letter further required that Chevron "demonstrate to the City's satisfaction that future discharge of groundwater" meets either the Municipal Regional Stormwater NPDES permit, or a newly issued NPDES permit. Finally, the letter stated that before discharging storm water from the referenced property Chevron must "demonstrate to the City's satisfaction that the stormwater has been sufficiently isolated from all sources of contaminated groundwater[.]"

As a preliminary matter, neither CRA nor CEMC proposes to discharge groundwater or storm water to the City's storm drainage system. The owner of the Zief Property operates the storm sewer connections at the Zief Property. The owner of the Zief Property is thus responsible for any discharges from its building to the City's storm drainage system, and would be responsible for complying with the City's directives that the effluent comply with the Municipal Regional Stormwater NPDES Permit or an unspecified NPDES permit. We note that the Zief Property storm water system is associated with a parking structure and that San Mateo Municipal Code Section 7.39.120 already requires that the property owner clean its parking structure "as frequently and thoroughly as practicable in a manner that does not result in discharge of pollutants to the City storm drain system."

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**CONESTOGA-ROVERS
& ASSOCIATES**

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We recognize that there is a potential for groundwater to enter the Zief Property storm water system. Since August 1998, the storm water system at the Zief Property has been plumbed to the sanitary sewer and discharged pursuant to a permit (or extension of the permit) issued to CRA and CEMC. Monitoring of the influent to the sanitary sewer system has always met the limits set in the permit. The influent primarily contains storm water runoff from the parking structure.

After the City initially required that the building's storm water system be re-connected to the City's storm drainage system, CRA prepared plans to upgrade the storm water system at the Zief Property to eliminate potential intrusion of groundwater into the building's storm water system. CRA's storm water system construction design was based primarily, but not exclusively, on data presented in the following reports and meetings:

CRA's, September 30, 2011, *Report of Findings*

CRA's, October 31, 2011, *Report of Findings Addendum*

CRA's, January 13, 2012, *Response Letter*

CRA's, March 30, 2012, *Report of Findings Addendum 2*

CRA's, May 10, 2012, *Report of Finding Addendum 3*

Onsite meeting with the Representatives from the City, Zief Family Trust, and CEMC and contractors on June 11, 2012

CRA's, June 27, 2012, *Response to FHAR Impacts Memo – May 31, 2012*

CRA's, September 13, 2012, *Pre-Construction Punch List Memo – August 21, 2012*

CRA's, February 8, 2013, *Storm Water System Technical Memorandum*

CRA's, April 18, 2013, *Response Letter*

CRA's, July 29, 2013, *Self-Monitoring Report-Second Quarter 2013*

CRA's plans called for all existing conveyance piping and catch basins upgradient of the sump to be exposed, removed or capped in place, and new piping to be installed. The existing sump and trench drain at the base of the driveway would be coated with a water sealant (Xypex®) to mitigate groundwater infiltration. The plans contemplated that the building's storm water system would remain connected to the sanitary sewer pending confirmation sampling demonstrating that groundwater infiltration had been effectively eliminated.

The City's Public Works Department approved these plans in August and September 2012. The City's Building Department approved these plans in November 2012, although the Building Department required that the storm water system be connected to the City's storm drainage system following completion of this work (without the originally proposed confirmation sampling). A copy of the approved plan is presented as Attachment B. CRA continues to



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believe that the Zief Property storm water system should remain connected to the sanitary sewer, pending completion of the confirmation sampling.

The owner of the Zief Property refused to allow CEMC to have access to the property to implement this work. CEMC immediately sought the assistance of your office in obtaining access in October 2012, culminating in a meeting with you on June 17, 2013. (Your September 3, 2013, letter was the first communication we received from the City since that meeting.)

After receiving your September 3, 2013, letter, CRA took steps to implement the approved plans. On October 4, 2013, the City's Building Department issued a permit to CRA's subcontractor, Cornerstone Environmental Contractors, to implement the work. A copy of the permit is presented as Attachment C. CRA has arranged for its subcontractor to begin implementation of the referenced plans starting the week of December 2, 2013, and anticipates that the work will be completed within 15 working days. Following completion of the work, CRA will reconnect the Zief Property's storm water system to the City's storm drainage system, as required by the Building Department, and further responsibility for any discharge from the building's storm water system will be the responsibility of the property owner. However, as noted above, CRA believes that the Zief Property storm water system should remain connected to the sanitary sewer, pending completion of the confirmation sampling.

Your letter also requested information on the Zief Property's elevator pit. On March 17, 2012, CRA and the City inspector inspected the wet well located adjacent to the elevator on the FHAR property. The wet well is approximately 1.5 feet in diameter, water was measured at approximately 1 foot below grade (fbg), and the total depth was 7.21 fbg. The wet well is not connected to the storm water system. The pavement in the vicinity of the wet well is pitched so water and debris flow toward it and small bits of debris were observed floating on the water in the wet well; therefore, surface water can infiltrate the well lid. This wet well was reportedly installed during the construction of the elevator shaft at the FHAR building in 2005 and is owned by the Zief Family Trust. The wet well was reportedly used to lower the groundwater table in the vicinity of the elevator shaft to allow for its construction. CRA recommended that the property owner address the infiltration of surface water to their wet well by capping it with a sealed well box to stop storm water from entering the groundwater table beneath their building.

In sum, CEMC has proposed to undertake all practicable measures to eliminate the intrusion of petroleum-impacted groundwater into the Zief Property's storm water system. CEMC has notified the owner of the Zief Property that CRA and its subcontractor intend to commence



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work during the week of December 2, 2013. If the property owner will not allow CRA to implement these plans, it will be impossible for CEMC to disconnect the storm water system at the Zief Property from the City's sanitary sewer collection system and to eliminate groundwater from entering the Zief Property's storm water system. Because CEMC does not control any point source associated with the Zief Property any further directives relating to discharges from the Zief Property should be directed to the owner of the property.



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& ASSOCIATES**

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If you have any questions regarding the contents of this document, please call Mr. Brandon Wilken at (925) 849-1001 or Ms. Catalina Espino Devine at (925) 790-3949.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES



A handwritten signature in cursive script that reads 'Brandon S. Wilken'.

Brandon S. Wilken, PG 7564

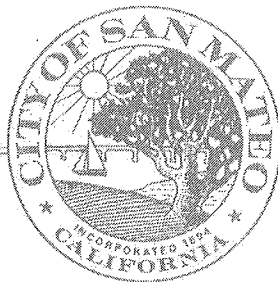
BW/mws/2

Attachment A	Regulatory Correspondence
Attachment B	Approved Storm Water Construction Design
Attachment C	City of San Mateo Building Permit

cc: Ms. Catalina Espino Devine, CEMC (*electronic only*)
Mr. Todd Littleworth, CEMC (*electronic only*)
Mr. Robert Goodman, Rogers Joseph O'Donnell (*electronic only*)
Mr. Dave Curson, FHAR, Inc. (*electronic only*)
Mr. Herman Kalfen, Esq. Kalfen Law Corporation (*electronic only*)
Ms. Gabrielle Whelan, City of San Mateo (*electronic only*)

ATTACHMENT A
REGULATORY CORRESPONDENCE

Department of Public Works
Larry A. Patterson, P.E., Director



330 West 20th Avenue
San Mateo, California 94403-1388
Telephone (650) 522-7300
FAX: (650) 522-7301
www.cityofsanmateo.org

September 3, 2013

Ms. Catalina Espino Devine
Project Manager
Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583

Mr. Brandon Wilken
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

Subject: *Discharges from Sump Pump at E 20th Avenue, San Mateo*

Dear Ms. Devine and Mr. Wilken:

The City of San Mateo has been working with Chevron and the property owner to reconcile the issues surrounding the discharge from the sump located at the subject property. The City's primary interests in this matter are eliminating the discharge of groundwater and stormwater to the sanitary sewer, and assuring discharges into the storm drainage system comply with the conditions of the Municipal Regional Stormwater Permit (Order R2-2009-0074). The City's interests are based upon:

- A compliance order issued to the City stemming from inadequate capacity in the sanitary sewer collection system, and
- The City's responsibilities under the Municipal Regional Stormwater Permit to implement that permit's prohibition on the discharge of contaminated stormwater and conditions governing the discharge of groundwater to the storm drainage system.

Chevron currently discharges contaminated groundwater commingled with stormwater to the City's sanitary sewer system under an extension of a Waste Discharge Permit authorized on October 22, 2012. The first Waste Discharge Permit issued to Chevron by the City in 1999, and each subsequent permit, contained a condition that Chevron eliminate the source of groundwater contamination and subsequently the discharge of groundwater to the City's sanitary sewer system. Approximately 14 years later, this still has not been accomplished and contaminated groundwater continues to be discharged from this site. On July 28, 2011, the City issued a compliance order to Chevron to eliminate stormwater discharges to the sanitary sewer. This has yet to be accomplished.

Letter to Chevron and Conestoga-Rovers
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The City hereby directs Chevron to eliminate both groundwater and stormwater discharges into the sanitary sewer collection system.

Chevron must develop a plan to eliminate the discharge of contaminated groundwater and stormwater from the City's sanitary sewer collection system. Based upon the water quality data presented in the Discharger Self-Monitoring Reports (1998-2012), the sump effluent quality would not meet the conditions for discharge to the storm drainage system under the Municipal Regional Stormwater Permit. Therefore authorization to discharge this waste requires a National Pollutant Discharge Elimination System (NPDES) permit from the San Francisco Bay Regional Water Quality Control Board (Regional Water Board).

Prior to discharging **groundwater** from this site to the storm drainage system, Chevron must demonstrate to the City's satisfaction that future discharge of groundwater either:

- Meet the conditions of the Municipal Regional Stormwater Permit or
- Have been authorized by a separate NPDES permit issued by the Regional Water Board.

If authorization for discharge to the storm drainage system is not obtained, Chevron must collect and remove pumped groundwater from the site to a properly licensed waste disposal facility.

Prior to discharging **stormwater** from this site, Chevron must demonstrate to the City's satisfaction that the stormwater has been sufficiently isolated from all sources of contaminated groundwater, and/or contaminated soil including moisture conveyed into the garage through the weep holes. The demonstration must:

- Identify how the sump and elevator pit have been isolated from the sources of contamination and the system (sumps and piping) has been cleaned after it has been isolated,
- Include water quality monitoring from at minimum two of storm events demonstrating hydrocarbon concentrations are below Municipal Regional Stormwater Permit thresholds.

Based on the water quality results the City may require periodic monitoring of stormwater discharges to verify the continued integrity of the system isolating stormwater from the sources of contamination.

The City will continue to work with Chevron and the property owner to facilitate communications between the parties, but ultimately Chevron is responsible for proposing a plan that is acceptable to the property owner and meets the City's requirements to protect public health and the environment.

As noted, the discharges from this location are discharged to the City's sanitary sewer system under a temporary extension of a Waste Discharge Permit that was granted on October 22, 2012, while Chevron worked to eliminate all non-sewage flows to the sanitary sewer system.

The City is hereby notifying Chevron that this temporary extension will expire on December 31, 2013. Your timely response to this notification is required.

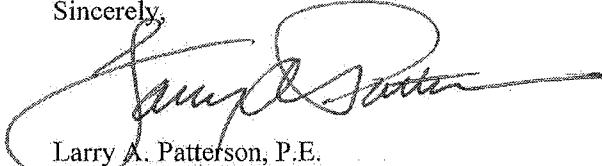
Within 10 days of receipt of this letter, please acknowledge its receipt in writing.

Within 30 days of receipt of this letter Chevron must present its plan to the City to eliminate both groundwater and stormwater discharges into the sanitary sewer collection system.

Letter to Chevron and Conestoga-Rovers
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In accordance with San Mateo Municipal Code section 7.38.440, failure to meet these compliance directives constitute a violation of Chapter 7.38 of the San Mateo Municipal Code and be subject administrative or civil penalties per Chapter 1.10 and 1.11 of the San Mateo Municipal Code.

Sincerely,



Larry A. Patterson, P.E.
Director of Public Works

cc: Dave Curson FHAR
Herman Kalfen, Kalfen Law Corporation
Susanna Chan, Deputy Public Works Director
Pete Dalla-Betta, Laboratory & Source Control Supervisor
Gabrielle Whelan, Assistant City Attorney
Robert C. Goodman, Rogers Joseph O'Donnell
Charles Ice, County of San Mateo
Russell Hansen, State Water Resources Control Board
Nathan Jacobson, Office of Chief Counsel, State Water Resources Control Board
Chron/IU File

ATTACHMENT B

APPROVED STORM WATER CONSTRUCTION DESIGN

STORMWATER COLLECTION AND CONVEYANCE SYSTEM REPLACEMENT DESIGN PLANS

FAMILY HOUSING AND SUPPORT SERVICES

20 East 20th Avenue, San Mateo, California

Prepared for:

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY

Prepared by:

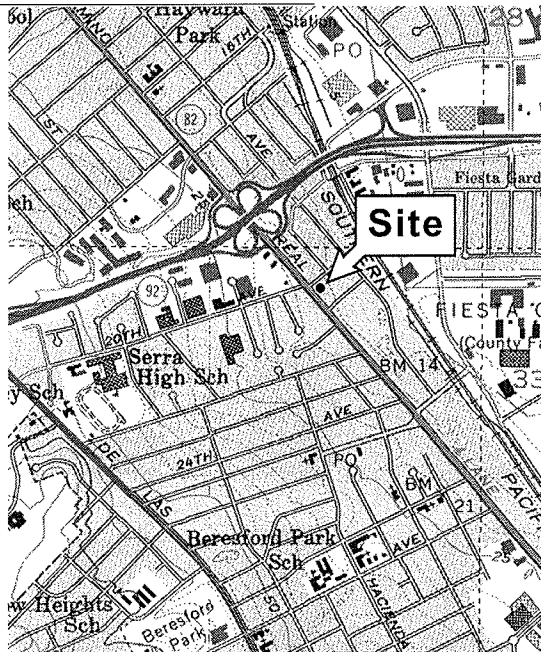
CONESTOGA-ROVERS & ASSOCIATES

Scope of Work:

- The following items define the generalized scope of work to install a new stormwater collection and conveyance system including catch basins, stormwater conveyance piping, sump lining, removal and replacement of two sump pumps, and modifications to an existing control panel. The Contractor shall (1) cut and cap or remove the existing conveyance piping; (2) remove and replace the existing catch basins and area drains with new catch basins; (3) trench and install new underground stormwater conveyance piping from the catch basins to the sump; (4) backfill and repave the trench to match the existing adjoining pavement surfaces; (5) line the sump and trench drain with a waterproof sealant; (6) prepare connection to existing curb discharge pipe in the sump room; (7) grind down and repave parking garage with asphalt; and (8) restripe and otherwise delineate parking spaces. All construction should be completed per the Drawings and referenced details. Some items listed above will be constructed in separate phases, as directed by the CRA field representative.
- Excavate to the existing conveyance piping and cut and cap the piping. Piping exposed during replacement piping excavation will be removed as appropriate. Remove the existing two catch basins and the smaller area drains; replace these with new catch basins as illustrated and specified on the Drawings.
- Add a catch basin to the collection system located adjoining the existing driveway trench drain as illustrated and specified on the Drawings and as per the direction of the CRA field representative.
- Trench and lay piping from the catch basins to the sump as illustrated and specified on the Drawings and as per the direction of the CRA field representative. All gravity storm drain conveyance piping shall have a minimum of 0.5% slope in the downgradient direction towards the sump.
- Backfill, compact, and resurface trenches as illustrated and specified on the Drawings and as per the direction of the CRA field representative, and as required by the City of San Mateo Building Department.
- Line the existing sump and trench drain with the specified waterproof sealant. Seal the conveyance piping sump inlet so that no groundwater can enter the sump as illustrated and specified on the Drawings and as per the direction of the CRA field representative.
- Install new conveyance piping from the sump to the existing discharge pipe in the sump room as illustrated and specified on the Drawings and as per the direction of the CRA field representative.
- Grind down a minimum of 2" and repave entire existing asphalt portion of the parking garage with asphalt concrete. Grinding and resurfacing work will be performed so that all finished surfaces drain by gravity flow to the newly installed or existing stormwater collection infrastructure. Repaving shall occur after all trenches are backfilled and initially paved. Edges of all sawcut asphalt concrete surfaces shall be ground to a taper during the existing paved surface grinding process.
- Restripe and delineate parking spaces and all other existing pavement markings to match the original layout.

Notes:

- The design of these facilities are based on the 2010 California Building Code, 2011 National Electrical Code, the 2012 Uniform Fire Code, and the 2010 California Plumbing Code, and the State of California Business, Transportation and Housing Agency, Department of Transportation (Caltrans) Standard Specifications and Plans (current edition) where applicable. Construction is to comply with the design and specifications, and/or local agency requirements, with the more stringent (in Engineer's opinion) standard, guideline, regulation, or requirement to apply.
- Construction is to comply with all OSHA requirements; Chevron's Minimum Safety Requirements; CRA's SMART Safety Program; and FHAR's May 31, 2012 Construction Impact Considerations Document.
- The existing sanitary sewer connection for the sump discharge will no longer be maintained with the City of San Mateo's sanitary sewer. The sump will be allowed to discharge to the curb on 20 East 20th Street.
- Contractor shall obtain encroachment permit from the City of San Mateo for all work or staging of equipment and materials performed in the public right-of-way.

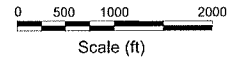


Drawing List

T	Title
C1	Const. Notes and Specifications(1)
C2	Const. Notes and Specifications(2)
C3	Site Plan
C4	Sump Room Layout
C5	Striping Plan
D1	Civil Details 1
D2	Civil Details 2
D3	Civil Details 3
D4	Civil Details 4
D5	Civil Details 5

VICINITY MAP

Source: TOPO MAPS!



CLIENT	
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY	
PROJECT	
FAMILY HOUSING AND SUPPORT SERVICES 20 EAST 20TH STREET SAN MATEO, CALIFORNIA	
TITLE	
STORMWATER SYSTEM TITLE PAGE	
PROJECT #311544	

DRAWING STATUS	
Revision	Date / Initial
1	11/15/12 MJC
PURSUANT TO CITY COMMENTS AND CONVEYANCE PIPE SIZE CHANGE	

SCALE VERIFICATION	
THIS BAR MEASURES 1" ON ORIGINAL	



CONESTOGA-ROVERS & ASSOCIATES	
8000 HOLLIS STREET STATE A BEREYVILLE CA 94600 PHONE: 916.430.0700 FAX: 916.430.9990 WWW.CRAWORLD.COM	

Source Reference:		Drawing N#
Designed By: M.J.L.	Date: 9/08/12	T
Drafted By: M.J.L.	Date: 9/08/12	
Reviewed By: L.N.B.	Date: 9/09/12	
Scale: NA		

1.0 INTRODUCTION

THE ENCLOSED DRAWINGS AND SPECIFICATIONS CONTAIN INFORMATION FOR THE CONSTRUCTION AND INSTALLATION OF A NEW STORMWATER COLLECTION AND CONVEYANCE SYSTEM (SYSTEM). THE FOLLOWING DRAWINGS DEPICTING THE SYSTEM ARE REQUIRED FOR CONSTRUCTION AND INSTALLATION:

DRAWING NO.	REVISION	DESCRIPTION
T	1	TITLE PAGE
C1	1	SPECIFICATIONS (1)
C2	1	SPECIFICATIONS (2)
C3	1	SYSTEM LAYOUT
C4	1	SUMP ROOM LAYOUT
C5	1	STRIPING PLAN
D1	1	CIVIL DETAILS 1
D2	1	CIVIL DETAILS 2
D3	0	CIVIL DETAILS 3
D4	0	CIVIL DETAILS 4
D5	0	CIVIL DETAILS 5

THIS PACKAGE ALSO CONTAINS THE FOLLOWING SPECIFICATIONS REQUIRED FOR CONSTRUCTION AND INSTALLATION:

2.0 SPECIFICATIONS

2.1 GENERAL

1. THE SELECTED CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ENGINEER OR HIS DESIGNATED REPRESENTATIVE SHALL BE NOTIFIED OF ANY DISCREPANCY, WITHIN 24 HOURS OF DISCOVERY, AND PRIOR TO CONSTRUCTION OF THE ITEM IN DISCREPANCY.
2. ALL MATERIALS USED FOR CONSTRUCTION OF THE SYSTEM SHALL BE NEW UNLESS OTHERWISE NOTED.
3. EQUIPMENT AND INSTRUMENTS THAT ARE SPECIFIED TO BE SUPPLIED BY THE ENGINEER WILL BE PROVIDED BY THE ENGINEER FOR INSTALLATION BY THE CONTRACTOR, UNLESS OTHERWISE NOTED. ALL OTHER MATERIALS SHALL BE PROVIDED BY THE CONTRACTOR.
4. ALL NECESSARY CONSTRUCTION PERMITS AND INSPECTIONS SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR, INCLUDING PERMITS FOR ENCROACHMENT, ELECTRICAL, MECHANICAL, AND CIVIL CONSTRUCTION. THE ENGINEER WILL OBTAIN THE REQUIRED DISCHARGE PERMITS.
5. THE CONTRACTOR SHALL RESTORE ALL EXCAVATED SURFACE AREAS TO MATCH EXISTING GRADES AND SURFACE DRAINAGE PATTERNS.
6. ALL CONSTRUCTION AREAS SHALL BE CLEARLY MARKED WITH BARRICADES, CONES, PLATES, OR OTHER APPROVED SAFETY MARKERS TO RESTRICT ACCESS AND PROVIDE A SAFE WORK ENVIRONMENT FOR THE CONTRACTOR AND THE SITE'S EMPLOYEES AND CLIENTS AS DIRECTED BY THE ENGINEER.
7. A PRE-CONSTRUCTION MEETING BETWEEN SITE OWNER, THE CONTRACTOR, AND ENGINEER WILL BE REQUIRED BEFORE ANY WORK BEGINS. THE MEETING WILL BE HELD AT THE SITE.
8. THE CONTRACTOR SHALL WARRANT ALL MATERIALS AND CONSTRUCTION FOR A PERIOD OF ONE YEAR. ALL DEFECTS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

2.2 EXCAVATION

1. ALL EXCAVATED SOIL SHALL BE MONITORED BY THE CONTRACTOR IN ACCORDANCE WITH LOCAL GUIDELINES. EXCAVATED SOIL SHALL BE PLACED IN A BERMED AREA LINED AND COVERED WITH A MINIMUM OF 6-MIL PLASTIC SHEETING MATERIAL. EARTHEN MATERIALS SHALL NOT BE USED TO SECURE THE PLASTIC LINERS OR COVERS. IF HYDROCARBON-IMPACTED SOIL IS DETECTED, THE SOIL SHALL BE SEGREGATED AND STOCKPILED IN AN AREA DESIGNATED BY THE ENGINEER AND COVERED WITH PLASTIC SHEETING IF NECESSARY. THE ENGINEER WILL SAMPLE THE EXCAVATED SOIL FOR HYDROCARBON ANALYSIS. THE ENGINEER WILL BE RESPONSIBLE FOR DISPOSAL OF SOILS IMPACTED WITH PETROLEUM HYDROCARBONS. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL OTHER REMOVED MATERIALS AND DEBRIS REMOVED OR GENERATED DURING THE WORK TO AN APPROVED OFFSITE LOCATION.

2.2 EXCAVATION (CONTINUED)

2. WHERE PIPING IS INSTALLED BELOW GROUND, THE PIPE SHALL BE BURIED IN A TRENCH EXCAVATED TO A MINIMUM DEPTH OF 12 INCHES TO THE TOP OF THE PIPE, UNLESS OTHERWISE STATED. THE EXCAVATIONS SHALL BE SAWCUT TO PROVIDE A SQUARE VERTICAL JOINT WHICH SHALL BE GROUND TO A TAPER FOR REPAVING. IF EXCAVATIONS MUST REMAIN OPEN AFTER NORMAL WORK HOURS, THEY SHALL BE COVERED AT THE CONTRACTOR'S EXPENSE WITH METAL PLATES (TRENCH PLATES), CAPABLE OF SUPPORTING VEHICULAR TRAFFIC LOADS.

3. EXCAVATIONS SHALL NOT REMAIN OPEN OVER A WEEKEND UNLESS COVERED BY TRENCH PLATES. IN CASES WHERE THE BUSINESS MUST REMAIN OPEN DURING CONSTRUCTION, ALL TRENCH PLATES SHALL BE ASPHALT COLD PATCHED AROUND THE EDGES TO PREVENT ACCIDENTAL TRIPS OR SLIPS BY THE GENERAL PUBLIC, ALLOW TRAFFIC MOVEMENT OVER THE PLATES, AND PREVENT PLATE MOVEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND CLEANING UP ANY STAINS LEFT BY ASPHALT OUTSIDE OF ASPHALT CONCRETE PAVED AREAS INCLUDING STEAM CLEANING OF SURFACE, AS WARRANTED. CONTRACTOR SHALL BE RESPONSIBLE FOR WATER CONTAINMENT, COLLECTION, AND DISPOSAL FROM STEAM CLEANING (IF USED).

4. PIPING TRENCHES AND EXCAVATIONS SHALL BE BACKFILLED WITH IMPORTED SAND FROM 2 INCHES BELOW THE PIPING TO 6 INCHES ABOVE THE PIPING. CLASS 2 AGGREGATE BASE ROCK MEETING CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS SHALL BE USED AS BACKFILL MATERIAL FROM 6 INCHES ABOVE THE PIPING TO THE BOTTOM OF THE CONCRETE OR ASPHALT CONCRETE SURFACE LAYER. A TWO-SACK CEMENT-SAND SLURRY MIX (AS APPROVED BY THE ENGINEER) MAY BE SUBSTITUTED FOR THE CLASS 2 AGGREGATE BASE ROCK BACKFILL. THE AGGREGATE BASE ROCK BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF THE RELATIVE DENSITY (ASTM D 1557). PAVEMENT REMOVED FOR TRENCHES OR OTHER EXCAVATIONS SHALL BE REPLACED WITH NEW MATERIAL TO MATCH EXISTING.

5. WHEN RESURFACING EXCAVATED TRENCHES WITH ASPHALT, A MINIMUM OF 4 INCHES OF CALTRANS SPECIFIED TYPE B HOT-MIXED ASPHALT CONCRETE (HMAC) MATERIAL SHALL BE USED OVER COMPACTED AGGREGATE BASE BACKFILL MATERIAL. 2-INCH THICKNESS PLACED PRIOR TO REPAVING WORK; AND 2 INCHES PLACED AS PART OF REPAVEMENT WORK. THE ASPHALT MIX SHALL BE COMPACTED TO A MINIMUM OF 92% AND A MAXIMUM OF 97% OF THE MAXIMUM THEORETICAL DENSITY TO ALLOW FOR NORMAL VEHICULAR TRAFFIC. COMPACT ASPHALT SURFACE USING TANDEM ROLLERS. ROLL UNTIL NO FURTHER COMPRESSION CAN BE OBTAINED AND ROLLING MARKS ARE ELIMINATED.

6. WHEN RESURFACING WITH CONCRETE, A MINIMUM OF 6-INCH THICK REINFORCED CONCRETE SHALL BE USED OVER 6-INCHES OF CLASS 2 AB. REINFORCING SHALL BE NO. 4 REBAR DOWELED INTO AN EXISTING SLAB, STAGGERED ON EACH SIDE OF THE TRENCH ON 18-INCH CENTERS PLACED AT MID-HEIGHT. FOR TRENCHES LESS THAN 3 FEET WIDE, A FIBER-REINFORCED MESH MAY BE SUBSTITUTED FOR REBAR. CONCRETE SHALL BE DOWELED WHERE FEASIBLE.

7. CONTRACTOR TO REMOVE AND DISPOSE OF CONCRETE PARKING BLOCKS, ASPHALT, AND ANY OTHER RECYCLABLE MATERIALS AS NEEDED. ALL CONCRETE PARKING BLOCKS REMOVED SHALL BE REPLACED IN KIND AS NECESSARY.
8. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO UNDERGROUND UTILITIES, PIPING, AND ADJOINING STRUCTURES.

9. CONTRACTOR SHALL MAKE EVERY EFFORT TO UTILIZE EXISTING EDGES OF PAVEMENT WHEN SAWCUTTING TO REDUCE UNNECESSARY SAWCUTS.
10. CONTRACTOR SHALL USE AQUA CRETE SEALANT OR ENGINEER APPROVED EQUAL TO SEAL THE CONCRETE JOINTS.
11. CONTRACTOR SHALL RETURN TO THE SITE AFTER ONE WEEK AND APPLY ASPHALT JOINT SEALER TO ALL AREAS THAT WERE TRENCHED AND REPLACED BUT NOT RE-ASPHALTED.

2.3 CONCRETE MIX DESIGN SPECIFICATIONS

- A. MIN. STRENGTH - 3,000 PSI
- B. AGGREGATE SIZE - C2 GRAVEL 3/4" TO 1"
- C. CEMENT TYPE AND BAG MIX - TYPE 1 PORTLAND CEMENT
- D. CURE TIME - MIN 28 DAYS 100% STRENGTH
- E. SLUMP - MIN 3" MAX 5-1/2"
- F. MAX TURNS - 70 ROTATIONS
- G. MAX TRAVEL TIME - HOT WEATHER 1 HOUR 15 MINUTES, COLD WEATHER 2 HOURS.

2.4 PIPING

1. ALL UNDERGROUND GRAVITY PIPING SHALL BE 8" ASTM D3034 SDR 26 POLYVINYL CHLORIDE (PVC) WITH GASKETED FITTINGS UNLESS OTHERWISE INDICATED. ALL ABOVEGROUND DISCHARGE PIPING SHALL BE 2" SCHEDULE 80 PVC (UNLESS OTHERWISE INDICATED) WITH SOLVENT WELDED FITTINGS. CONTRACTOR TO USE LOW VOLATILE ORGANIC COMPOUND EMITTING PRIMER AND SOLVENTS WHEN INSTALLING SOLVENT WELDED FITTINGS. UNLESS OTHERWISE STATED, ALL VALVES SHALL BE THREADED BRASS AS INDICATED BY THE DRAWINGS.
2. ALL ABOVEGROUND PIPING SHALL BE PERMANENTLY LABELED WITH DIRECTIONAL FLOW ARROWS AND LINE CONTENTS AT MAXIMUM 5 FOOT INTERVALS.
3. WHEN CONNECTING TO OR BYPASSING EXISTING UNDERGROUND PIPING, THE CONTRACTOR SHALL FIRST VERIFY THE EXISTING PIPING PATH.
4. WHERE PIPING IS ROUTED ABOVEGROUND INSIDE THE SUMP ROOM, THE PIPING SHALL BE SUPPORTED BY UNI-STRUT PIPE SUPPORTS AND CLAMPS. THE UNI-STRUT SUPPORTS SHALL BE SECURELY FASTENED TO THE WALL OR MOUNTED ON A BASE THAT IS SECURED TO THE GROUND SURFACE.
5. ALL PIPING SHALL BE PRESSURE TESTED ACCORDING TO LOCAL SPECIFICATIONS AND WITNESSED BY ENGINEER OR HIS REPRESENTATIVE AND CITY INSPECTOR. NO TESTING WILL BE CONDUCTED THROUGH INSTRUMENTS OR EQUIPMENT.
6. CONNECT DISCHARGE LINE TO EXISTING STORM SEWER PIPING.
7. PIPING SHALL BE SLOPED IN A DOWNGRADIENT DIRECTION TOWARD THE SUMP, AT A MINIMUM RATIO OF 1:200 (0.5%).

2.5 ELECTRICAL

1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT NECESSARY TO MODIFY THE CONTROL PANEL. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING POWER TO THE VARIOUS STORMWATER SYSTEM COMPONENTS AND OBTAINING THE ELECTRICAL PERMIT FOR IMPLEMENTATION OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY OPERATION OF ALL ELECTRICAL EQUIPMENT UPON COMPLETION OF THE WORK.
2. THE CONTRACTOR SHALL ACQUIRE ALL NECESSARY PERMITS AND PAY ALL ASSOCIATED FEES INCLUDING CONNECTION AND DISCONNECTION FEES.
3. ALL ELECTRICAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.), THE LOCAL BUILDING DEPARTMENT, AND THE LOCAL FIRE DEPARTMENT. ANY DRAWINGS REQUIRED FOR PERMITS OTHER THAN THOSE PRESENTED HEREIN SHALL BE PROVIDED BY THE ENGINEER OR CONTRACTOR, AS APPLICABLE.
4. THE INSTALLATION WITHIN THE SUMP ROOM SHALL COMPLY WITH THE APPROPRIATE ELECTRICAL CLASSIFICATION AS PER N.E.C. AND LOCAL CODES. ALL WIRING CONNECTORS, CONDUIT, AND CONTRACTOR SUPPLIED EQUIPMENT SHALL COMPLY AT A MINIMUM WITH CLASS I, DIVISION II REQUIREMENTS, AS SPECIFIED BY THE N.E.C. OR LOCAL CODES.
5. ABOVEGROUND WIRING SHALL BE CONTAINED IN RIGID CONDUIT AND ROUTED ALONG THE ENCLOSURE FLOOR AND WALLS OR BURIED AS ALLOWED BY LOCAL CODE. LIQUID TIGHT FLEX CONDUIT OF UP TO 36" IN LENGTH MAY BE USED.
6. VENT FAN WIRING SHALL BE CONTAINED IN RIGID CONDUIT MOUNTED TO THE WALL. ALL WIRING TO BE INSTALLED IN COMPLIANCE WITH NEC CODES AND ALL APPLICABLE CITY ORDINANCES.

CLIENT	
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY	
PROJECT	
FAMILY HOUSING AND SUPPORT SERVICES 20 EAST 20TH STREET SAN MATEO, CALIFORNIA	
TITLE	
CONSTRUCTION NOTES AND SPECIFICATIONS (1)	
PROJECT #311544	

DRAWING STATUS	
Revision	Date Initial
1	11/5/12 MJL
PURSUANT TO CITY COMMENTS AND CONVEYANCE PIPE SIZE CHANGE	

SCALE VERIFICATION
THIS BAR MEASURES 1" ON ORIGINAL



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Drafted By: Date: 9/08/12
M.J.L.
Reviewed By: Date: 9/09/12
L.N.B.
Scale: NA

C1

2.6 EQUIPMENT

1. CONTRACTOR SHALL LABEL ALL STORAGE TANKS WITH APPROPRIATE CONTENTS AND LABEL DIRECTION OF FLOW ON ALL PIPES.

2.7 CONSTRUCTION

1. THE CONTRACTOR SHALL CONFIRM A CONSTRUCTION SCHEDULE WITH THE ENGINEER'S REPRESENTATIVE AT LEAST 14 DAYS PRIOR TO ANY WORK AT THE SITE.
2. THE PROPOSED CONSTRUCTION SCHEDULE SHALL BE PRESENTED IN A TIMELINE FORMAT SHOWING ESTIMATED START DATE, DURATION, AND COMPLETION TIMES FOR EACH ACTIVITY. ANY DEVIATION FROM THE ORIGINALLY PROPOSED SCHEDULE MUST BE COMMUNICATED TO THE ENGINEER'S PROJECT MANAGER WITHIN 24 HOURS.

2.8 AS-BUILT DRAWINGS

1. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORD DRAWINGS (RED LINES) SHOWING ACTUAL DETAILS, DIMENSIONS, AND OTHER PERTINENT FEATURES THAT VARY FROM THE ORIGINAL DESIGN.

3.0 SAFETY / CLEANUP

1. THE CONTRACTOR (INCLUDING WORKERS AND SUBCONTRACTORS) SHALL PREPARE A SITE-SPECIFIC HEALTH AND SAFETY PLAN (HASP), RELEVANT JOB SAFETY ANALYSES (JSA), AND A JOURNEY MANAGEMENT PLAN (JMP) PRIOR TO BEGINNING ANY WORK, AND SHALL ABIDE BY THE HASP AND JSAS DURING ALL SITE WORK. A COPY OF THE HASP, JSAS, AND JMP SHALL BE PROVIDED TO THE ENGINEER PRIOR TO BEGINNING ANY SITE WORK, AND SHALL BE READILY AVAILABLE AT THE SITE DURING ALL PERIODS OF WORK.
2. PRIOR TO DEPARTURE FROM THE SITE, THE CONTRACTOR SHALL MAKE SURE THAT THE WORK AREA IS CLEAN AND ORDERLY. THE CONTRACTOR SHALL CONTAIN LOOSE DEBRIS AND STORE CONSTRUCTION MATERIALS ON A DAILY BASIS PRIOR TO DEPARTURE FROM THE SITE TO PROVIDE A CLEAN AND ORDERLY WORK AREA. ALL EXCAVATED MATERIAL LEFT ON SITE SHALL BE ADEQUATELY COVERED WITH PLASTIC SHEETING SECURED WITH SAND BAGS AS APPROPRIATE.

3. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL, AND CHEVRON-SPECIFIED HEALTH AND SAFETY REQUIREMENTS.
4. CONTRACTOR SHALL PROVIDE SAFETY SIGNS AND DELINEATION FOR ALL WORK AS NEEDED.
5. CONTRACTOR SHALL ABIDE BY AN ENGINEER AND CHEVRON APPROVED JSA AND HASP.
6. EXCLUSION ZONE SHALL BE CLEARLY SECTIONED OFF USING, BUT NOT RESTRICTED TO, DELINEATORS, CAUTION TAPE, AND CONSTRUCTION SAFETY FENCING.
7. ALL EMPLOYEES OF THE CONTRACTOR SHALL BE CURRENT WITH THEIR 40-HOUR HAZARDOUS TRAINING AND 8-HOUR REFRESHER. ALL EMPLOYEES OF THE CONTRACTOR SHALL BE TRAINED IN CHEVRON'S LOSS PREVENTION SYSTEM (LPS). PROOF OF SAID DOCUMENTS SHALL BE KEPT ON-SITE. CONTRACTOR SHALL MEET REQUIREMENTS OF CHEVRON'S SHORT SERVICE EMPLOYEE PROCESS (SSE).
8. CONTRACTOR SHALL MARK ALL POTENTIAL OVERHEAD AND/OR TRIP HAZARDS IN YELLOW.

9. ALL WORK SHALL BE CONDUCTED UNDER CHEVRON'S "PERMIT TO WORK" SYSTEM. NO WORK SHALL BE CONDUCTED WITHOUT A PERMIT TO WORK.
4.0 INSPECTION
1. ALL SITE INSPECTIONS REQUIRE A MINIMUM 24 HOURS NOTICE. ALL FIRE AND BUILDING DEPARTMENT INSPECTIONS ARE TO BE REQUESTED BY THE CONTRACTOR. CONTRACTOR TO BE SPECIFIC AS TO TYPE OF INSPECTION NEEDED.

5.0 CHANGE ORDERS

1. ANY SCOPE OF WORK CHANGES OR ITEMS WHICH ARISE DURING A PRE-CONSTRUCTION SITE VISIT, PERMITTING PHASE, OR CONSTRUCTION PHASE SHALL BE COMMUNICATED TO THE ENGINEER OR HIS DESIGNATED REPRESENTATIVE(S) WITHIN 24 HOURS OF DISCOVERY. APPROVAL FROM THE ENGINEER OR HIS DESIGNATED REPRESENTATIVE(S) SHALL BE OBTAINED BEFORE FIELDWORK IS CONTINUED UNLESS THE DELAY PRESENTS A SAFETY RISK. THE CONTRACTOR WILL USE BEST PROFESSIONAL JUDGMENT IN THESE CASES. A WRITTEN CHANGE ORDER TASK REQUEST WITH A DETAILED DESCRIPTION OF WORK TO BE PERFORMED AND COSTS ESTIMATED TO BE EXPENDED (INCLUDING LABOR, EQUIPMENT, MATERIALS, INCIDENTALS, OVERHEAD, AND PROFIT) SHALL BE SUBMITTED TO THE ENGINEER OR HIS DESIGNATED REPRESENTATIVE FOR APPROVAL WITHIN 3 BUSINESS DAYS OF THE CONTRACTOR'S AWARENESS THAT A CHANGE ORDER IS REQUIRED.

6.0 ADDITIONAL SPECIFICATIONS

1. ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS, SPECIFICATIONS, AND DETAILS OF THE CITY OF SAN MATEO (CITY) FOR WORK WITHIN THE CITY'S RIGHT-OF-WAY; CALTRANS; THE CALIFORNIA BUILDING CODE; THE CALIFORNIA PLUMBING CODE (CPLC); THE NATIONAL ELECTRICAL CODE; AND THE UNIFORM FIRE CODE, AS APPLICABLE.
2. CONTRACTOR SHALL OBTAIN, COMPLY WITH, AND MAINTAIN ON-SITE A COPY OF ALL APPLICABLE PERMITS AT ALL TIMES.
3. THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES SHOWN ARE FROM RECORD ONLY AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONESTOGA-ROVERS AND ASSOCIATES (CRA), AS ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THE LOCATION OR DEPTH OF THE UTILITIES SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES IN POTENTIAL CONFLICT OR FOR CONNECTION TO PRIOR TO CONSTRUCTION AND NOTIFY THE CRA FIELD REPRESENTATIVE IMMEDIATELY IF ANY CONFLICTS OCCUR. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE VARIOUS UTILITY OWNERS REGARDING INSTALLATION AND CONNECTION REQUIREMENTS FOR THEIR FACILITIES. CONTRACTOR SHALL BE RESPONSIBLE TO CHECK AND VERIFY ALL EXISTING GRADES AND ELEVATION ACCURACY. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. CONTRACTOR WILL BE RESPONSIBLE FOR AND PAY ALL COSTS ASSOCIATED FOR ANY REPLACEMENT OR REPAIR COSTS ASSOCIATED TO ERRORS IN LOCATION OR ELEVATION FOR ITEMS CONSTRUCTED.

4. CRA DOES NOT EITHER EXPRESSLY OR BY DEHAUCATION ON THESE PLANS ESTABLISH OR DELINEATE THE VARIOUS PROPERTY, RIGHT-OF-WAY, AND EASEMENT BOUNDARIES. CRA HAS ILLUSTRATED PROPERTY LINE/EASEMENT LOCATIONS BASED ON INFORMATION OBTAINED FROM THE CITY, AND HAS NOT SURVEYED OR THEIR LOCATION OR WARRANT THEIR LOCATION AS DEPICTED ON THE DRAWINGS.
5. CONTRACTOR SHALL NOTIFY THE USA NORTH (818)900-332-3344, THE CITY PUBLIC WORKS DEPARTMENT (CITY PUBLIC WORKS DEPARTMENT (PWD), 650-522-7300), THE CITY BUILDING DEPARTMENT (CITY BD 650-522-7170) AND CRA A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL COORDINATE WITH THE CITY PWD AND SD FOR ALL REQUIRED INSPECTIONS.

6. ALL GRADING AND COMPACTION OUTSIDE THE PUBLIC RIGHTS-OF-WAY SHALL CONFORM TO THE REQUIREMENTS OF THE CBC, CHAPTER 18 AND APPENDIX J. ALL FILL SHALL BE ENGINEERED FILL THAT IS SUITABLY PLACED, MOISTURE CONDITIONED, AND COMPACTED IN ACCORDANCE WITH CITY PWD, AND CBC REQUIREMENTS; AND TO A MINIMUM OF 95% RELATIVE COMPACTION (MODIFIED PROCTOR, ASTM D1557); 2%± OF OPTIMUM MOISTURE.
7. CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AND LICENSES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOT PERFORM WORK WITHOUT CITY INSPECTION WHERE INSPECTIONS ARE REQUIRED BY VARIOUS CITY DEPARTMENTS.

8. CONTRACTOR SHALL RECORD ALL CONSTRUCTION CHANGES WHICH DEVIATE FROM THE PLANS AND PROVIDE THE OWNER AND CRA WITH A CLEARLY MARKED SET OF "AS-BUILT" DRAWINGS.
9. CONTRACTOR SHALL NOTIFY CRA IMMEDIATELY UPON IDENTIFYING POTENTIAL PROBLEMS OR DISCREPANCIES WITH PLANS, LOCATION/ELEVATION, OR OTHER DESIGN ELEMENTS.
10. CONTRACTOR SHALL BE RESPONSIBLE TO CLEAN AND/OR MAINTAIN EXISTING PUBLIC STREETS FREE OF ANY SOIL OR OTHER DEBRIS DEPOSITED FROM CONSTRUCTION OPERATIONS AND REPAIR ALL STREETS DAMAGED BY CONSTRUCTION IN A TIMELY MANNER TO AVOID CREATING PUBLIC NUISANCES, INCONVENIENCES, OR HAZARDS.

11. ALL UTILITIES SHALL HAVE A MINIMUM COVER OF 1.5 FEET UNLESS OTHERWISE SPECIFIED. AS POSSIBLE OR OTHERWISE INDICATED ON THE PLANS, MAINTAIN A MINIMUM 6-INCH CLEAR SEPARATION BETWEEN INFRASTRUCTURE FACILITIES.
12. THE CONTRACTOR SHALL USE GRANULAR BACKFILL AND AGGREGATE BASE MATERIALS FROM A CITY APPROVED SOURCE. CONTRACTOR SHALL NOTIFY ENGINEER OF THE MATERIAL SOURCE PRIOR TO ANY GRANULAR MATERIAL PLACEMENT. CONTRACTOR SHALL NOT CHANGE MATERIAL SOURCE WITHOUT PRIOR APPROVAL FROM ENGINEER.

13. THE CONTRACTOR SHALL USE ASPHALT CONCRETE AND PORTLAND CEMENT CONCRETE MATERIALS FROM A CITY APPROVED SOURCE. CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE MATERIAL SOURCE PRIOR TO ANY CONCRETE MATERIAL PLACEMENT. CONTRACTOR SHALL NOT CHANGE MATERIAL SOURCE WITHOUT PRIOR APPROVAL FROM ENGINEER.
14. ALL WORK ON GRAVITY STORM DRAIN AND STORM SEWER SYSTEMS SHALL BEGIN AT THE LOWEST POINT AND PROCEED UP TO THE HIGHEST POINT OR TERMINUS. CONTRACTOR SHALL NOT BEGIN WORK ANYWHERE OTHER THAN THE LOWEST POINT AND SHALL NOT LEAVE OUT SECTIONS OF THE SYSTEM AND RESTART AT A HIGHER POINT.
15. ALL STORM DRAIN LATERALS AND CATCH BASINS NOT IN RIGHT-OF-WAY ARE PRIVATE. A PLUMBING BUILDING PERMIT MUST BE OBTAINED AND PAID FOR BY THE CONTRACTOR PRIOR TO INSTALLATION OF THESE FACILITIES.

16. CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE PRE-QUALIFIED AND APPROVED BY THE CITY OF SAN MATEO PUBLIC WORKS DEPARTMENT FOR ANY AND ALL WORK PERFORMED IN THE CITY RIGHTS-OF-WAY, AS APPLICABLE.
17. WHEN PERFORMING EXCAVATIONS, THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF THE STATE AND LOCAL CODES AND ORDINANCES PERTAINING TO UNDERGROUND INFRASTRUCTURE AND UTILITIES (BOTH PRIVATE AND PUBLIC), WHICH INCLUDE REQUIREMENTS THAT THE CONTRACTOR HAND EXPOSE (POTHOLE) UNDERGROUND FACILITIES AND USE REASONABLE CARE TO AVOID DAMAGING THEM AND TO PRESERVE THEM IN AN UNDISTURBED STATE, AS FEASIBLE.
18. PLACEMENT OR STORAGE OF SPOILS FROM THE WORK IS NOT PERMITTED ON HARD SURFACE STREETS WITHIN PUBLIC RIGHT-OF-WAY. SPOILS STORED IN OTHER AREAS SHALL BE COVERED WITH PLASTIC SHEETING ADEQUATELY SECURED WITH SAND BAGS OR EQUIVALENT TO PREVENT EROSION AND SEDIMENT MIGRATION AND TO MITIGATE ANY IMPACTS TO SURFACE OR GROUND WATERS.

19. CONTRACTOR TO VERIFY THAT ALL UNDERGROUND INFRASTRUCTURE (I.E. PIPE, CONDUITS, LATERALS, MANHOLES, VAULTS, ETC.) HAVE BEEN INSTALLED PRIOR TO PLACEMENT OF ANY ASPHALT PAVING WHICH OVERLAYS SUCH INFRASTRUCTURE.
20. THE CONTRACTOR SHALL PREPARE, SUBMIT, AND SECURE APPROVAL OF A TRAFFIC CONTROL AND SIGMAGE PLAN FROM THE CITY AT LEAST FIVE (5) WORKING DAYS PRIOR TO COMMENCING WORK, FOR ALL WORK WITHIN THE CITY'S RIGHT-OF-WAY.
21. REQUESTS BY THE CONTRACTOR FOR CHANGES TO PLANS SHALL BE APPROVED BY CRA AND THE CITY BEFORE IMPLEMENTATION.
22. THE CONTRACTOR SHALL USE SHIELDINGS (BRACING/SLOPING/ RAMPING OR OTHER METHODS AS NEEDED TO PERFORM THE EXCAVATION TO THE LIMITS SPECIFIED; COMPLETE THE REQUIRED ENGINEERING BACKFILL, COMPACTION, AND TESTING WORK; TO PROTECT AGAINST SIDEWALL UNDERCUTTING/SLOUGHING; AND TO PREVENT ANY MOVEMENT OR DAMAGE TO THE SURROUNDING ABOVE, AT-GRADE, OR UNDERGROUND INFRASTRUCTURE OR IMPROVEMENTS.

23. SUMP PUMP DISCHARGE HOSE SHALL BE SPIRALIZED 115 OR APPROVED EQUAL WITH CAM LOCK FITTINGS (FEMALE CONNECTOR ON BOTH ENDS OF HOSES).
24. THE CONTRACTOR SHALL PROVIDE WATER FOR CONSTRUCTION RELATED SITE USE. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR INCLUDING PAYING ALL APPLICABLE FEES AND CHARGES) AND USE NECESSARY WATER IN COMPLIANCE WITH THE CITY OR GOVERNING AGENCY REQUIREMENTS (I.E. USE RECYCLED WATER, ENCROACHMENT PERMIT FOR HYDRANT USE, TANK IN, ETC.).
25. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND OFF-SITE DISPOSAL OF ALL ASPHALT CONCRETE AND PORTLAND CEMENT CONCRETE SURFACING AND INFRASTRUCTURE MATERIALS REMOVED FROM AND ADJOINING TO THE EXCAVATION AREAS.

26. STORMWATER BMP MEASURES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR SURROUNDING AND IN PROXIMITY TO THE AREA OF WORK AND ANY STOCKPILED AND COVERED MATERIALS TO PREVENT STORM WATER POLLUTION AND FACILITATE EFFECTIVE EROSION/SEDIMENT MIGRATION CONTROL. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOADING THE EXCAVATED SOIL AND BASE ROCK MATERIALS INTO THE TRANSPORTATION VEHICLES; CLEAN-UP OF SPILLED MATERIALS PRIOR TO THE TRUCKS DEPARTURE, AND CLEAN-UP OF ANY TRACKING OF SOIL/DEBRIS TO OFF-SITE ADJOINING PROPERTIES OR STREETS.

27. AS APPLICABLE, NEW ABOVE-GROUND DISCHARGE PIPING TO BE PAINTED TO MATCH THE EXISTING BUILDING COLOR, AS APPROVED BY THE ENGINEER PRIOR TO APPLICATION.
28. ALL GRATINGS SHALL BE CBC 1193B.12 COMPLIANT.

CLIENT	
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY	
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FAMILY HOUSING AND SUPPORT SERVICES	
20 EAST 20TH STREET SAN MATEO, CALIFORNIA	
TITLE	
CONSTRUCTION NOTES AND SPECIFICATIONS (2)	
PROJECT #311544	

DRAWING STATUS			
Revision	Date	Initial	
1	11/5/12	MJL	
PURSUANT TO CITY COMMENTS AND CONVEYANCE PIPE SIZE CHANGE			

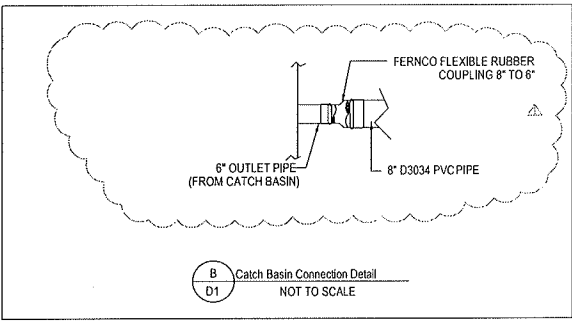
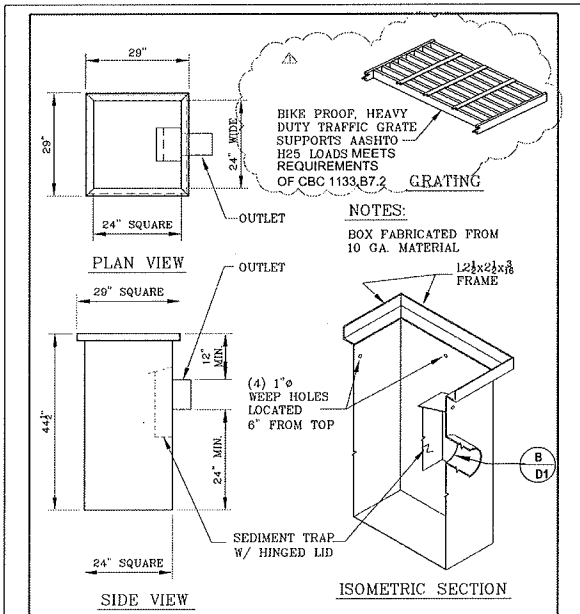
SCALE VERIFICATION	
THIS BAR MEASURES 1" ON ORIGINAL	
Approved	



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Drafted By: Date:	
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Reviewed By: Date:	
LNB 9/09/12	
Scale:	NA

C2



CLIENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY

PROJECT
FAMILY HOUSING AND SUPPORT SERVICES
20 EAST 20TH STREET
SAN MATEO, CALIFORNIA

TITLE
STORMDRAIN SYSTEM
CIVIL DETAILS 1

PROJECT #311544

DRAWING STATUS			
Rev	Revision	Date	Initial
1	PURSUANT TO CITY COMMENTS AND CONVEYANCE PIPE SIZE CHANGE	11/5/12	MJL

SCALE VERIFICATION
THIS BAR MEASURES 1" ON ORIGINAL

Approved

LEE N. BRENNAN
No. C041821
Renewal: CIVIL
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Drafted By:	Date:	
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Reviewed By:	Date:	
LNR	6/22/12	
Scale:	NA	

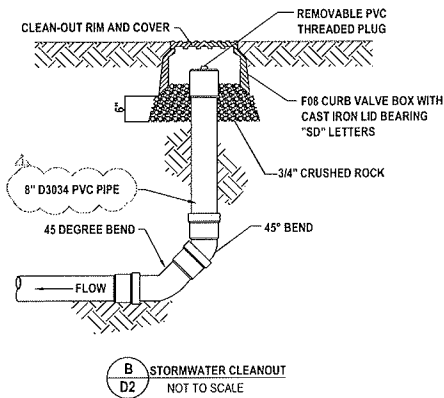
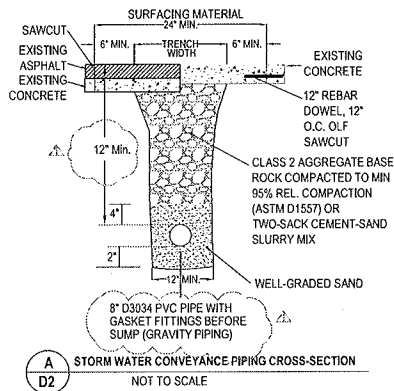
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STATE APPROVED - ASPHALT DIPPED
24" SQUARE - 4" Ø OR 6" Ø OR 8" Ø OUTLET

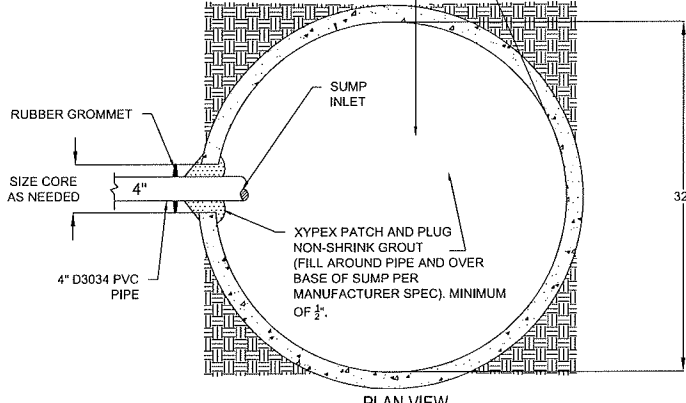
STORM WATER CATCH BASIN		DWG # T2
PROJ. MAN. DOUG P.	DWN. PAUL C.	
DATE: JAN. 23, 06	MODEL: MFCB10-421B-48665-4WH	

Gibson Steel Basins
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PROJECT	
FAMILY HOUSING AND SUPPORT SERVICES 20 EAST 20TH STREET SAN MATEO, CALIFORNIA	
TITLE	
STORMDRAIN SYSTEM CIVIL DETAILS 2	
PROJECT #311544	
DRAWING STATUS	
No.	Revision
1	11/5/12 MJL
PURSUANT TO CITY COMMENTS AND CONVEYANCE PIPE SIZE CHANGE	
SCALE VERIFICATION	
THIS BAR MEASURES 1" ON ORIGINAL	
Approved	
DATED	
CONESTOGA-ROVERS & ASSOCIATES 8900 HOLLY STREET SUITE A EMERYVILLE CA 94608 PHONE: 920.420.0700 FAX: 920.420.9970 WWW.CONESTOGA.COM	
Source Reference:	Drawing No.
Designed By: Date:	M.J.L. 6/22/12
Drafted By: Date:	M.J.L. 6/22/12
Reviewed By: Date:	L.N.B. 6/22/12
Scale:	NA
D2	

- NOTE:**
1. SCRAPE AND CLEAN WALLS OF SUMP WITH WIRE BRUSH; REMOVE ALL DEBRIS FROM WALLS AND FLOOR OF SUMP
 2. SEAL BASE OF SUMP WITH MINIMUM 1/4-INCH NON-SHRINK GROUT
 3. COAT SUMP WALLS AND BASE WITH XYPEX CONCENTRATE PURSUANT TO MANUFACTURER'S RECOMMENDATIONS. MINIMUM TWO (2) COATS REQUIRED. SPECIFICATIONS OF NOTE INCLUDE:
 - A. IF THE PREPARED BATCH IS NOT APPLIED WITHIN 3 MINUTES (PATCH AND PLUG) OR 20 MINUTES (CONCENTRATE) A NEW BATCH MUST BE PREPARED.
 - B. THE CONCENTRATE TAKES APPROXIMATELY 48 HOURS TO CURE. A "MIST FOG SPRAY" MUST BE APPLIED 3 TIMES A DAY FOR AT LEAST 48 HOURS FOR THE PRODUCT TO CURE PROPERLY.
 - C. ONCE THE CURING PROCESS IS COMPLETE, WATER MUST NOT BE ALLOWED TO ENTER THE SUMP FOR 12 DAYS.



PLAN VIEW

NOTE: INSTALL NEW PLASTIC SUMP LID PER DETAILS ON DRAWING D4

A SUMP SEALING DETAIL
D3 SCALE: Not to Scale

CLIENT
CHEVRON ENVIRONMENTAL
MANAGEMENT COMPANY


PROJECT
FAMILY HOUSING AND SUPPORT
SERVICES
20 EAST 20TH STREET
SAN MATEO, CALIFORNIA

TITLE
STORMDRAIN SYSTEM
CIVIL DETAILS 3

PROJECT #311544

DRAWING STATUS			
Revision	Date	Initial	

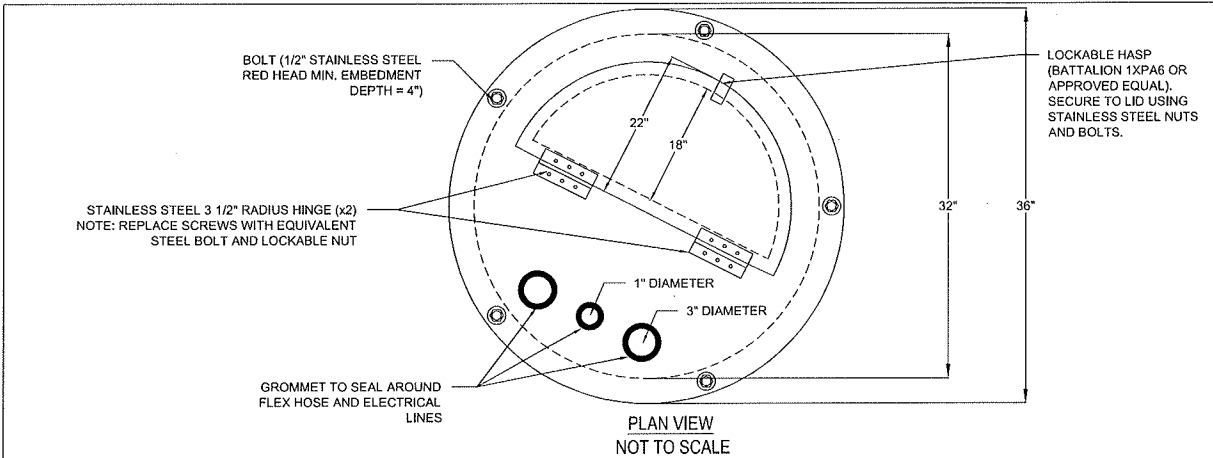
SCALE VERIFICATION
THIS BAR MEASURES 1" ON ORIGINAL

Approved

 REGISTERED PROFESSIONAL ENGINEER
 LEE N. BRENNAN
 No. C041821
 Renewal:
 CIVIL
 STATE OF CALIFORNIA
 DATED

CONESTOGA-ROVERS
& ASSOCIATES

 1800 HOLLIS STREET
 SUITE A
 EMERYVILLE CA 94608
 PHONE 510-423-0700
 FAX 510-423-0700
 WWW.CRAWORLD.COM

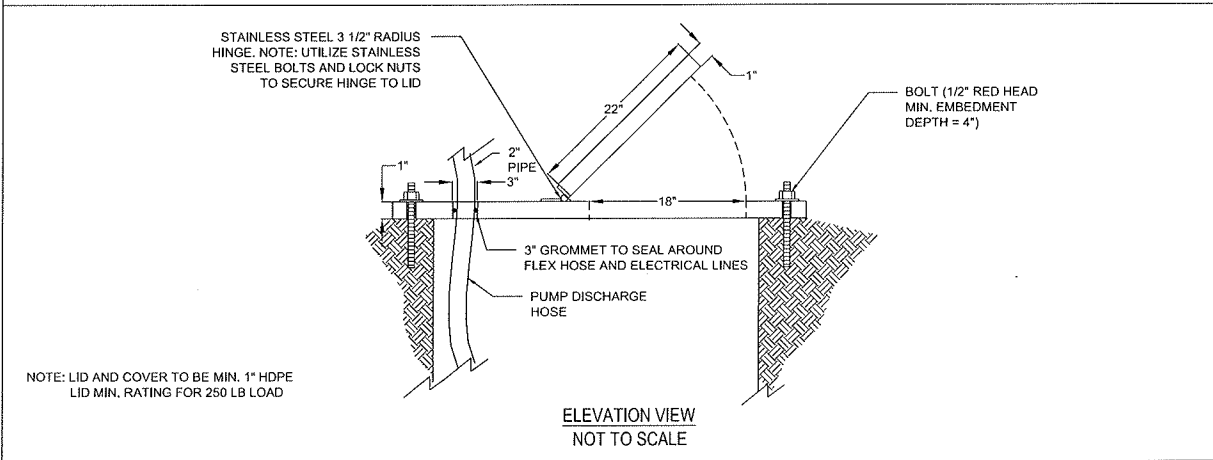
Source Reference:		Drawing No. D3
Designed By: M.J.L.	Date: 6/22/12	
Drafted By: M.J.L.	Date: 6/22/12	
Reviewed By: LNB	Date: 6/22/12	
Scale: NA		



CLIENT CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
PROJECT FAMILY HOUSING AND SUPPORT SERVICES 20 EAST 20TH STREET SAN MATEO, CALIFORNIA
TITLE STORMDRAIN SYSTEM CIVIL DETAILS 4
PROJECT #311544

DRAWING STATUS		
Revision	Date	Initial

SCALE VERIFICATION THIS BAR MEASURES 1" ON ORIGINAL		
Approved		
DATED		



NOTE: LID AND COVER TO BE MIN. 1" HDPE LID MIN. RATING FOR 250 LB LOAD

CONESTOGA ROVERS & ASSOCIATES
6903 HOLLIS STREET
SUITE 200
EMERYVILLE CA 94609
PHONE 510.430.0100
FAX 510.430.0170
WWW.CRAWFORDS.COM

Source Reference:		Drawing N ^o
Designed By: M.J.L.	Date: 9/08/12	D4
Drafted By: M.J.L.	Date: 9/08/12	
Reviewed By: M.J.L.	Date: 9/08/12	
Scale: LNR	Date: 9/09/12	

NuTone

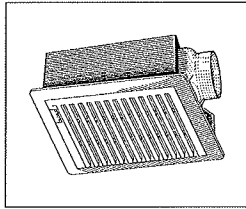
Architectural & Engineering Specifications
August 2006

Ceiling/Wall Blower

MODELS: 696N

DESCRIPTION

- For baths up to 45 sq. ft., other rooms up to 60 sq. ft.
- Installs in ceiling or 2" x 4" wall studs.
- Mounts on either 16" or 24" O.C. joist or stud.
- Discharge is through 3" round duct through roof or wall.
- Sturdy mounting brackets of double metal thickness slotted on housing for vertical mounting adjustments.
- Extra large outlet box area.
- Efficient impeller blower wheel.
- Attractive white polymeric grille with torsion springs to adjust for thickness variances in ceiling or wall.
- Polypropylene weather damper.
- Refer to NuTone's catalog for a complete listing of accessories to effectively adapt this Bathroom Fan to your construction requirements.



DESIGN FEATURES

- Air Delivery:** 50 CFM at 0.10" S.P.
- Sound Level:** 4.0 Sone.
- Dimensions:** Housing: 7 1/2" long x 7 1/4" wide x 2 3/4" high.
Grille: 9 1/2" long x 6 1/4" wide x 1/2" thick.
- Material & Finish:** Housing: Galvanized steel.
Grille: Engineered Resin.
- Motor:** Shaded pole, thermally protected, 120VAC, 60 Hz., 9 amp.
- Blower Wheel:** One-piece polypropylene.
- Duct Size:** 3" diameter.

ARCHITECT'S SPECIFICATIONS

Exhaust Fan shall be NuTone Model Number 696N as manufactured by NuTone according to listed specifications. Fan shall ventilate 50 CFM at 0.10" S.P. at a sound level of 4.0 Sones. Housing shall be 7 1/2" x 7 1/4" x 2 3/4" and connect to 3" duct.

INSTALLATION

- Snap on plastic duct transition.
- Not for use in kitchens.
- Suitable for use over tub or shower enclosure when installed in a GFI protected branch circuit.
- Not for use with reset-state speed controls.
- Install in ceiling or 2" x 4" wall studs. "A" unit housing installed during rough-in stage of construction. Power unit assembly and grille are installed when ceiling or wall is finished.
- Torsion springs on grille adjust for thickness variances in ceiling or wall.
- Use a standard on-off toggle switch (purchased separately). Installation instructions are included with each unit.

CERTIFIED TEST DATA

HVI-2100 CERTIFIED RATINGS comply with new testing technologies and procedures prescribed by the Home Ventilating Institute, for on-the-shelf products, as they are available to consumers. Product performance is rated at 0.1 in. static pressure, based on tests conducted in AHCA's state-of-the-art test laboratory. Sones are a measure of humanly-perceived loudness, based on laboratory measurements. This NuTone model is listed by Underwriters' Laboratories Inc.

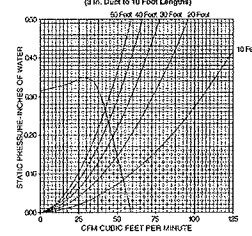
The air delivery of a ventilating system may be determined by:

1. Determine the equivalent duct length for each 90 degree elbow by adding one foot of duct length for each inch of duct diameter, i.e., a 4-inch diameter duct elbow equals 4 feet equivalent duct length and an 8-inch diameter duct elbow equals 8 feet equivalent duct length.
2. Add the total straight length of duct and the equivalent length for each elbow to obtain the total equivalent duct length.
3. Locate the intersection of the fan performance curve and the total equivalent duct length curves and draw a vertical line down to the CFM scale and read the system air performance.

(NOTE: 3 1/2" x 10" duct equals 6 inch diameter duct.)

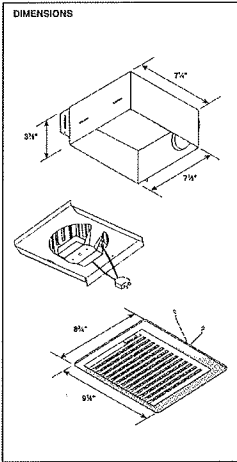
AIR PERFORMANCE CURVE

(3 in. Duct to 10 Foot Length)



STATIC PRESSURE INCHES OF WATER	0.06	0.11	0.16	0.22	0.29	0.33	0.35
CFM	56	52	49	47	45	43	40

DIMENSIONS



Product specifications subject to change without notice.
NuTone, Inc., 4520 P.O. Box Road, Cleveland, OH 44122
Printed in U.S.A., Part No. 1904392A

CLIENT
CHEVRON ENVIRONMENTAL
MANAGEMENT COMPANY

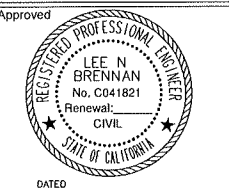
PROJECT
FAMILY HOUSING AND SUPPORT
SERVICES
20 EAST 20TH STREET
SAN MATEO, CALIFORNIA

TITLE
STORMDRAIN SYSTEM
FAN DETAILS

PROJECT #311544

DRAWING STATUS			
No.	Revision	Date	Initial
1	PURSUANT TO CITY COMMENTS AND CONVEYANCE PIPE SIZE CHANGE	11/5/12	MJL

SCALE VERIFICATION
THIS BAR MEASURES 1" ON ORIGINAL



Approved
CORRIGAN ROVERS & ASSOCIATES
600 HILLS STREET
SUITE 2
EMERYVILLE CA 94608
PHONE: 925.432.9700
FAX: 925.432.9700
WWW.CRRV.COM

Source Reference:			
Designed By:	MJL	Date:	11/5/12
Drafted By:	MJL	Date:	11/5/12
Reviewed By:	LNB	Date:	11/5/12
Scale:	NA		

Drawing N°
D5

ATTACHMENT C

CITY OF SAN MATEO BUILDING PERMIT



City of San Mateo
 Application & Permit
 Development Review Counter
 330 West 20th Avenue
 San Mateo, CA 94403-1388
 (650) 622-7172

Building Project

Project # bd2012-244207

PA:

Project					
Project Location:				Parcel Number:	Total Project Valuation:
1	20	E	20TH AVE	36190	035-235-070
Structure ID	Street #	Dir.	Street Name	Unit #	Business #
				035-235-070	\$ 100,000.00

Project Description: Remove and replace an existing storm water conveyance system.

Issued Date: 10/03/2013 Previous Use: Other Occupancy Code UBC: []

Expiration Date: 04/01/2014 Proposed Use: Other

PERMIT EXPIRATION: This project becomes null and void if work is not commenced within 180 days from date of project issuance if work is suspended at any time for more than 180 days or if work is done in violation of any city or state laws relating thereto.

#2 WHO WILL PERFORM THE WORK:

2a - CALIFORNIA LICENSED CONTRACTOR'S DECLARATION
 I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class and No. 722253-A/cio
 Print Name: BRAD SARGANSON Contractor Signature: [Signature]

#3 IDENTIFY WORKERS' COMPENSATION COVERAGE AND LENDING AGENCY:

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

WORKERS' COMPENSATION DECLARATION
 I hereby affirm under penalty of perjury one of the following declarations:

I have and will maintain a certificate of consent to self-insure for workers' compensation, issued by the Director of Industrial Relations as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. Policy No.:

I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier: FEDERAL INS. Policy No. 0044727301 Expiration Date: 3/29/14

I certify that, in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that, if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

DECLARATION REGARDING CONSTRUCTION LENDING AGENCY
 I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097, Civil Code).

Lender's Name and Address:

#4 DECLARATION BY CONSTRUCTION PERMIT APPLICANT:

By my signature below, I certify to each of the following:

I am a California licensed contractor or the property owner* or authorized to act on the property owner's behalf**.

I have read this construction permit application and the information I have provided is correct.
 I agree to comply with all applicable city and county ordinances and state laws relating to building construction.
 I authorize representatives of this city or county to enter the above-identified property for inspection purposes.

California Licensed Contractor (Property Owner* or Authorized Agent**): [Signature] *requires separate verification form **requires separate authorization form

Signature: [Signature] Date: 10/3/13

Contacts

Issued To:	Owner:
Contractor CORNERSTONE ENVIRONMENTAL CONTRACTORS INC CORNERSTONE ENVIRONMENTAL CONTRACTORS INC 125 MASON CHR. STEG CONCORD CA 94520-0000 (925) 324-0560	ARTHUR C ZIEF JR FOUNDATION INC 20 EAST 20TH AVE SAN MATEO CA 94403-0000



FOR INSPECTION REQUESTS FOR BUILDING
CALL 24 HOURS IN ADVANCE (650) 522-7170
FOR INSPECTION REQUESTS FOR FIRE, PLANNING & PUBLIC WORKS
CALL 48 HOURS IN ADVANCE
FIRE (650) 522-7940 PLANNING (650) 522-7202 PUBLIC WORKS (650) 522-7522 EXT 6900

INSPECTION RECORD

NOTE: THIS CARD AND APPROVED PLANS MUST BE KEPT DISPLAYED IN A CONSPICUOUS PLACE ON OR IN THE BUILDING WHERE THE SAME CAN BE READILY SEEN BY THE INSPECTORS. Inspections must be called for and made as required by Section 108.2 of the Uniform Administrative Code as adopted by the City of San Mateo.

CODE	INSPECTION TYPE	DATE	INSPECTOR	CODE	INSPECTION TYPE	DATE	INSPECTOR
FOUNDATION:				FIRE SPRINKLER:			
1420	CONCRETE FORMS			4010	UNDGRD HYDRO		
1500	SETBACKS			4060	WITNESS FLUSH		
1530	UFER GRD			4110	ROUGH OVERHEAD		
1540	STEEL/REBAR			4120	2 HR/200 PSI TEST		
1560	PIERS			4130	OVERHEAD HYDRO		
1590	HOLD DOWNS			4180	STANDPIPES		
1600	SLAB STEEL			0800	FIRE PUMP TEST		
6875	DRIVEWAY			4340	FINAL		
1720	POOL PRE-GUNITE						
1730	POOL PRE-PLASTER						
ELECTRIC:				FIRE ALARM SYSTEMS:			
2030	UNDERGROUND			4710	ROUGH-IN		
2070	NEW SERVICE			4730	NFPA 100% TEST		
2080	SERVICE UPGRADE			4740	110V CIRCUIT		
2130	ROUGH ELEC			4750	FIRE/SMKE DAMPERS		
2190	TEMP SERVICE			4760	ELEVATOR RECALL		
7510	FINAL			4770	AUTO SMKE CTRL/REM.		
				7550	FINAL		
PLUMBING:				FIRE OTHER:			
2510	WATER SERVICE			4260	AUTO FIRE SUPPRES.		
2520	UNDERGROUND			4270	BATTERY BKUP TEST		
2555	SHOWER PAN			4510	HOOD & DUCT SYSTEM		
2560	ROUGH			6790	HOT WORK		
2580	TOPOUT						
2590	ROUGH GAS			PUBLIC R-O-W:			
2610	GAS TEST			1150	STOPPP PRE-CONSTRUCTION		
2620	GAS METER RELEASE			1200	TRAFFIC CONTROL		
2630	SEWER			1810	TRENCHING/SHORING		
2670	WATER HEATER			1820	COMPACTION		
7520	FINAL			1830	FORMWORK		
				1840	PAVEMENT BASE		
MECHANICAL:				7558	STOPPP FINAL		
2870	ROUGH			7560	FINAL		
2910	DUCTS			RESULTS/COMMENTS			
2920	FLUES						
2950	FURNACE/BOILER						
2960	A/C UNIT						
3040	TYPE - I HOOD						
7530	FINAL						
STRUCTURAL:							
1320	DEMOLITION						
5010	UNDERFLOOR JOIST						
5030	T-BAR						
5060	SEISMIC UPGRADE						
5080	EXT. SHEATHING						
5090	SHEAR NAIL						
5100	ROOF NAIL						
5210	PLANNING FRAME						
5250	ROUGH FRAME						
6010	ROOF IN PROGRESS						
6510	INSULATION						
FINISH:							
6740	DRYWALL						
6750	EXT. WATERPROOF						
6760	EXTERIOR LATH						
6780	SMOKE DETECTORS						
5230	SIGNS						

This building must not be occupied until a final inspection has been called for and certified below.

FINAL APPROVALS			CITY OF SAN MATEO CONTACT PHONE NUMBERS	
7020	FIRE DEPT-Call Directly		FIRE:	(650) 522-7940
6720	PLANNING-Call Directly		PLANNING:	(650) 522-7202
7040	PUBLIC WORKS- Call Directly		PUBLIC WORKS:	(650) 522-7300
8510	BUILDING FINAL		BUILDING:	(650) 522-7172



City of San Mateo

Receipt

	Date	10/03/2013
CORNERSTONE ENVIRONMENTAL CONTRACTORS INC	Receipt Number	2013087300
125 MASON CIR. STEG, CONCORD, CA, 945200000	Transaction Number	2013-010537
	Payment Method	Check 1085
bd2012244207 - 20 20TH AVE E	Batch Number	2013100300101

Archive Maintenance	R26-3125-325407	\$ 89.45
Building Permit Fee/Energy	R26-3125-325401	\$ 1,788.93
Building Service Fee	R26-3125-325408	\$ 480.00
Building Standard Commission	B10-224104	\$ 4.00
Park Plan Check & Inspec. Fee	R10-6143-340126	\$ 50.00
Planning Service	R25-3112-340116	\$ 390.00
Plumbing Fixture	R26-3125-325404	\$ 64.36
Plumbing Permit	R26-3125-325404	\$ 47.02
SMI Tax - Commercial	B10-224102	\$ 21.00
	Total Paid	\$ 2,934.76

EXHIBIT 2

From: Ray Towne <rtowne@cityofsanmateo.org>
Sent: Friday, November 22, 2013 12:19 PM
To: dcurson@fhar.org; bwilken@CRAWorld.com; 'kalfenlawoffice@earthlink.net';
'rgoodman@rjo.com'; 'BWaite@chevron.com'; Gabrielle Whelan; Pete Dalla-Betta; Isaac
Hau; sandym@lwa.com; Susanna Chan; Larry Patterson
Cc: Ray Towne
Subject: Conference Call November 22 Meeting Summary
Attachments: 2013Nov22 Chevron-20E20th Mtg.docx

Everyone,

Attached are the Meeting Notes from our telephone conference call of November 22, 2013. Please acknowledge your receipt of this email and if you have any comments or revisions please reply to Sandy Mathews (sandym@lwa.com). Thank you Sandy for your quick turn-around on the summary notes.

I have also copied Isaac Hau, Plan Check Engineer, so he is in the loop.
Please call me at 650-522-7303 if you have any questions.

Ray Towne, P.E.
Interim Public Works Director
City of San Mateo

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**20 E. 20th Sanitary Sewer Discharges
November 22, 2013
Meeting Notes**

Attendees

Property Owner	Chevron	City
Dave Curson	Brandon Wilken (CRA)	Larry Patterson
Herman Kalfen	Robert Goodman (RJO)	Ray Towne
	Brian Waite (Chevron)	Susanna Chan
		Pete Dalla-Betta
		Sandy Mathews

These notes summarize the major issues discussed including unresolved issues and the agreements reached during the telephone conference call.

- 1. Sealant:** Xypex requires a 15-day cure time. Concern that by doing construction in December the surface will get wet before curing is complete.

Resolution: Megamix I is a sealant that can be applied over the Xypex within 2-4 hours of the Xypex application and is ready in 24 hours.

Next steps: Parties to review the information distributed by Brandon on 11/21/2014.
- 2. Logistics Plan:** Concern that the logistics plan has not been provided in writing.

Resolution: CRA will provide the Property Owner with the logistics plan by close-of-business today 11/22/2013.
- 3. Catch Basin:** The plans showed catch basin with weep holes. Concern that this is counter to the objective of sealing the system from groundwater.

Resolution: The catch basin that is ordered for the project will not have weep holes. The catch basin will be verified when it is delivered to the site to confirm there are no weep holes.
- 4. Site Monitors:** Concern that monitors are present to ensure system does not flood during construction.

Resolution: CRA will have three on-site monitors during construction: one will be inside coordinating with the contractor; one will be outside to ensure clients of FHAR and others do not enter the construction zone and are directed to safe paths; and one will monitor the alternate parking locations. CRA will have an electronic system that monitors the pumps and sends an alert if they are not functioning.

Next steps: CRA will send the parties the emergency response plan to handle water/flooding during the construction period when the pumps are shut down. Preliminary details will be included with the logistics plan, see item 2. Further details will be sent in the next two days.

5. **Maintenance Agreement:** Concern that an agreement for maintenance of the catch basin and system has not been resolved.

Resolution: Agreed that it is preferable to install a catch basin that has an option for a Flo-Guard filter. Parties agreed the work could proceed in parallel with the development of the maintenance agreement. Chevron and the Property Owner will work with the mediator agreed to in October to come to a resolution on the maintenance costs and responsibilities.

Next steps: Chevron and the Property owner will contact the mediator to negotiate the maintenance agreement.

6. **Other Issues:**

- a. Access Agreement: Robert will email the access agreement to Herman.
- b. Insurance Certificates: Brandon will send CRA and the prime contractor's insurance certificates that name FHAR as additionally insured.

7. **Confirmation:** Confirm by email that concerns identified above have been resolved by Wednesday 11/27/2013.

EXHIBIT 3

From: Ray Towne <rtowne@cityofsanmateo.org>
Sent: Friday, November 08, 2013 9:06 AM
To: dcurson@fhar.org; Wilken, Brandon; kalfenlawoffice@earthlink.net;
rgoodman@rjo.com; espc@chevron.com
Cc: Larry Patterson; Gabrielle Whelan; Pete Dalla-Betta; Isaac Hau; sandym@lwa.com
Subject: 20 E. 20th Sanitary Sewer Discharges ~OUT-311544~ [Copy]
Attachments: 2013Oct24 Chevron-20E20th Mtg 2.docx

Everyone,

Attached are the Meeting Notes from our group meeting on October 24, 2013. Please acknowledge your receipt of this email and if you have any comments or revisions please reply to Sandy Mathews (sandym@lwa.com).

I wish to direct everyone to the Post-Meeting Notes Item 6. Although it was not discussed at our meeting, it will be necessary to properly submit the revisions through the Building Department. I spoke directly with Isaac Hau, Plan Check Engineer (cc'd above) and request that Brandon Wilken, of Conestoga-Rovers, contact Mr. Hau to follow the City's requirements for the discussed revisions for the drainage design.

Please call me at 650-522-7303 if you have any questions.

Ray Towne, P.E.
Interim Public Works Director
City of San Mateo

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**20 E. 20th Sanitary Sewer Discharges
October 24, 2013
Meeting Notes**

Attendees

Property Owner	Chevron	City
Dave Curson	Catalina Espino Devine	Larry Patterson
Herman Kalfen	Brandon Wilken	Ray Towne
	Robert Goodman	Pete Dalla-Betta
		Gabrielle Whelan
		Sandy Mathews

These notes summarize the major issues discussed including unresolved issues and the agreements reached to move forward.

1. Representatives for Chevron stated they have a contractor ready to begin work on December 1, 2013, based on the submitted plans and that the construction will take 12-15 work days.
2. Representatives for the Property Owner stated this construction period, while not ideal, would be acceptable.
3. Representatives for the Property Owner and Chevron stated prior to the meeting they reached agreement that the construction work by Chevron would include sealing the elevator wet well.
4. Issues to be resolved:
 - Permission to continue discharge to sanitary sewer during confirmation period.
 - Frequency and duration of confirmation sampling.
 - Contributions from other sources (weep holes and unpaved contaminated soil adjacent to retaining wall).
 - i. **Permission to continue discharge to sanitary sewer during confirmation period**

Representatives for the City agreed to allow continued discharge to the sanitary sewer during the confirmation period.
 - ii. **Frequency and duration of confirmation sampling**

Duration: All parties agreed the confirmation period would extend from the completion of the project through May 1, 2015 to allow for a full wet and dry season to be considered.

Frequency: All agreed to the following the sampling frequency

 - During the wet season confirmation sampling would occur monthly.
 - January, February, March; April 2014; November, December, January, February, March; April 2015

- During the dry season sampling would occur quarterly.
 - May-July, Aug-Oct 2014

iii. Contributions from other sources

While the parties did not reach agreement on the contributions from other sources, they discussed the possibility of stormwater migrating through the soil column adjacent to the retaining wall picking up hydrocarbons. This water would potentially discharge through the weep holes. One possible remedy discussed was paving the area of exposed soil to prevent infiltration of water.

Representatives for the Property Owner and Chevron agreed that no other work needs to be done at this time to address the weep holes or soil adjacent to the retaining wall.

Representatives for Chevron agreed to initiate investigation into paving the soil adjacent to the retaining wall, e.g., speak with property owner, evaluate feasibility.

All parties agreed that the data from the initial wet season sampling will be evaluated to assess whether there appears to be continued hydrocarbon contributions. If so, additional upgrades will be needed and could be undertaken in the dry season.

5. Representatives for the Property Owner and Chevron agreed to use a mediator, William Nagle in Burlingame, to assist in the resolution of future issues of contention in this matter.
6. Post Meeting Notes:

Ray Towne confirmed that Chevron has all the permits needed to initiate the work. Chevron does have the permits. However, the approved plans show discharge to the storm drainage system. Ray will work with the Building Department to determine what is needed to modify the plans to show discharge to the sanitary sewer. Ray will communication with Chevron if any changes are needed.

EXHIBIT 4



Brian Waite
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6486
bwaite@chevron.com

January 30, 2014

Mr. Larry Patterson
City of San Mateo/EMID
Water Pollution Source Control Program
330 West 20th Avenue
San Mateo, California 94403

Subject: Former Chevron Service Station #97863
20 East 20th Avenue
San Mateo, California
Facility ID: 20th East 20th Avenue Site

Dear Mr. Larry Patterson:

During the current reporting period (Fourth Quarter 2013), the sump pump system at the subject site operated in compliance with the conditions specified in the expired wastewater discharge permit.

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please feel free to contact me directly (925) 790-6486 with any questions or concerns.

Sincerely,

Brian A. Waite

Brian Waite
Project Manager

Digitally signed by Brian A. Waite
DN: cn=Brian A. Waite, o=Chevron Environmental Management
Company, ou, email=bwaite@chevron.com, c=US
Date: 2014.01.29 13:26:31 -0800



**CONESTOGA-ROVERS
& ASSOCIATES**

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
<http://www.craworld.com>

January 30, 2014

Reference No. 311544

Larry Patterson
City of San Mateo
Department of Public Works Director
330 West 20th Avenue
San Mateo, California 94403

Re: Self-Monitoring Report- Fourth Quarter 2013
Former Chevron Service Station #97863
20 East 20th Avenue
San Mateo, California
Facility ID: 20th East 20th Avenue Site

Dear Mr. Patterson:

Conestoga-Rovers & Associates (CRA) prepared this document on behalf of Chevron Environmental Management Company (CEMC) in accordance with the requirements of the March 15, 2012 amended waste discharge permit (Permit). Although the Permit expired on June 30, 2012, permission to continue discharging pursuant to the terms of the Permit was given by Mr. Chad Davisson of the City of San Mateo Environmental Services Division in an email to CRA on October 22, 2012. CRA and CEMC have been working with the City of San Mateo (City) and the site property owner to eliminate the discharge of rainwater to the sewer in accordance with the conditions presented in the July 28, 2011 Compliance Order, the City's letter dated August 13, 2012, and the City's September 3, 2013 letter.

On October 24, 2013 and November 22, 2013, representatives from CRA, CEMC, Family Housing & Adult Resources, and the City met to discuss various issues regarding the proposed construction activities required prior to connecting the sump discharge line to the storm sewer. Copies of the notes summarizing the meetings were provided by the City and are included as Attachment A. Construction started On December 6 and was completed December 23, 2014. Water from the sump continues to discharge to the sewer.

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**CONESTOGA-ROVERS
& ASSOCIATES**

January 30, 2014

Reference No. 311544

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SELF-MONITORING REPORT - FOURTH QUARTER 2013

Reporting Period Activities:

- CRA collected an initial quarterly flow meter reading on August 26, 2013 and a final flow meter reading on November 12, 2013.
- On November 12, 2013, CRA collected a water sample from the sampling port (SP-1) located on the sump discharge pipe. No discharge requirements were exceeded. These results are included in Attachment B.
- CRA prepared this document, which includes the sump discharge summary presented in Tables 1 and 2.
- CRA's contractor, Cornerstone Environmental, began construction to replace the sump and storm water conveyance system on December 6, 2013.
- Construction to replace the sump and storm water conveyance system was completed on December 23, 2013.
- Water from the sump continues to be discharged to the sewer.

REPORTING PERIOD DATA SUMMARY

Discharged Volume to Sewer (8/26/2013-11/12/2013)	10,720 gallons
Average Discharge Flow Rate	0.095 gallons per minute
Discharge Violations	None



**CONESTOGA-ROVERS
& ASSOCIATES**

January 30, 2014

Reference No. 311544

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If you have any questions regarding the contents of this document, please call Brandon Wilken at (925) 849-1001.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES



A handwritten signature in cursive script that reads 'Brandon S. Wilken'.

Brandon S. Wilken, PG 7564

JS/cw/32

Encl.

Table 1 Sump Discharge Summary
Table 2 Sump Water Analytical Results

Attachment A Meeting Notes from City
Attachment B Laboratory Analytical Report

cc: Mr. Brian Waite, CEMC (*electronic only*)
 Mr. Todd Littleworth, CEMC (*electronic only*)
 Mr. Robert Goodman, Rogers Joseph O'Donnell (*electronic only*)
 Mr. Dave Curson, FHAR, Inc. (*electronic only*)
 Mr. Herman Kalfen, Esq. Kalfen Law Corporation (*electronic only*)
 Ms. Gabrielle Whelan, City of San Mateo (*electronic only*)

TABLES

TABLE 1. SUMP DISCHARGE SUMMARY
FORMER CHEVRON SERVICE STATION #97863
SUMP LOCATED AT 20 E 20th STREET, SAN MATEO, CALIFORNIA

<i>Date</i>	<i>Totalizer Reading (gallons)</i>	<i>Total Flow Since Last Reading (gallons)</i>	<i>Time since Last Reading (days)</i>	<i>Average Flow Rate (gpm)</i>
07/21/99	0	---	---	---
07/28/99	2,633	2,633	7	0.261
08/16/99	9,728	7,095	19	0.259
09/10/99	19,689	9,961	25	0.277
09/11/99	19,972	283	1	0.197
09/24/99	24,675	4,703	13	0.251
10/30/99	---	14,515 (a)	36	0.280
11/12/99	0	5,241 (a)	13	0.280
11/16/99	1,810	1,810	4	0.314
12/17/99	12,936	11,126	31	0.249
01/19/00	12,936	0	33	0.000
01/26/00	12,956	20	7	0.002
02/29/00	79,098	66,142	34	1.351
03/22/00	115,519	36,421	22	1.150
04/25/00	152,181	36,662	34	0.749
05/30/00	171,235	19,054	35	0.378
06/22/00	171,239	4	23	0.000
07/25/00	185,216	13,977	33	0.294
08/31/00	198,793	13,577	37	0.255
09/26/00	207,827	9,034	26	0.241
10/19/00	213,562	5,735	23	0.173
11/13/00	213,562	0	25	0.000
11/21/00	213,562	0	8	0.000
12/12/00	229,094	15,532	21	0.514
01/02/01	242,487	13,393	21	0.443
03/01/01	245,500	3,013	58	0.036
03/14/01	245,558	58	13	0.003
04/03/01	245,654	96	20	0.003
04/24/01	269,090	23,436	21	0.775
05/17/01	292,292	23,202	23	0.701
06/28/01	321,089	28,797	42	0.476
07/31/01	340,130	19,041	33	0.401
09/17/01	360,693	20,563	48	0.297
10/24/01	376,336	15,643	37	0.294
11/12/01	386,227	9,891	19	0.362
11/24/01	395,538	9,311	12	0.539
12/17/01	401,975	6,437	23	0.194
01/10/02	454,028	52,053	24	1.506
01/22/02	463,569	9,541	12	0.552
02/19/02	482,046	18,477	28	0.458
03/04/02	490,038	7,992	13	0.427
04/02/02	493,544	3,506	29	0.084
04/30/02	500,597	7,053	28	0.175
05/14/02	503,894	3,297	14	0.164
05/28/02	507,600	3,706	14	0.184
06/07/02	509,693	2,093	10	0.145
06/10/02	510,230	537	3	0.124
07/12/02	515,917	5,687	32	0.123
08/14/02	516,457	540	33	0.011
09/17/02	523,382	6,925	34	0.141
10/17/02	529,197	5,815	30	0.135
10/30/02	530,515	1,318	13	0.070
11/08/02	534,198	3,683	9	0.284
11/13/02	536,827	2,629	5	0.365

TABLE 1. SUMP DISCHARGE SUMMARY
FORMER CHEVRON SERVICE STATION #97863
SUMP LOCATED AT 20 E 20th STREET, SAN MATEO, CALIFORNIA

<i>Date</i>	<i>Totalizer Reading (gallons)</i>	<i>Total Flow Since Last Reading (gallons)</i>	<i>Time since Last Reading (days)</i>	<i>Average Flow Rate (gpm)</i>
12/11/02	542,233	5,406	28	0.134
12/17/02	551,126	8,893	6	1.029
01/15/03	558,216	7,090	29	0.170
03/12/03	574,704	16,488	56	0.204
04/09/03	589,628	14,924	28	0.370
05/07/03	591,420	1,792	28	0.044
06/11/03	604,988	13,568	35	0.269
07/10/03	610,875	5,887	29	0.141
08/07/03	615,643	4,768	28	0.118
09/10/03	629,374	13,731	34	0.280
10/08/03	637,182	7,808	28	0.194
11/05/03	642,742	5,560	28	0.138
11/20/03	644,884	2,142	15	0.099
12/04/03	649,948	5,064	14	0.251
12/17/03	662,992	13,044	13	0.697
12/31/03	683,847	20,855	14	1.034
01/07/04	699,703	15,856	7	1.573
01/30/04	712,258	12,555	23	0.379
02/25/04	717,340	5,082	26	0.136
03/10/04	728,351	11,011	14	0.546
04/06/04	739,957	11,606	27	0.299
05/19/04	746,641	6,684	43	0.108
07/06/04	761,368	14,727	48	0.213
07/21/04	763,104	1,736	15	0.080
08/03/04	764,615	1,511	13	0.081
09/02/04	767,843	3,228	30	0.075
10/12/04	777,506	9,663	40	0.168
12/28/04	780,677	3,171	77	0.029
01/13/05	784,117	6,611	93	0.049
01/27/05	788,315	7,638	30	0.177
02/10/05	795,075	6,760	14	0.335
02/15/05	798,247	3,172	5	0.441
02/23/05	811,639	13,392	8	1.163
03/10/05	828,646	17,007	15	0.787
03/25/05	844,777	16,131	15	0.747
04/08/05	859,514	14,737	14	0.731
04/22/05	865,686	6,172	14	0.306
05/20/05	878,739	19,225	42	0.318
06/09/05	884,617	5,878	20	0.204
06/16/05	885,889	1,272	7	0.126
06/23/05	887,695	1,806	7	0.179
07/11/05	889,812	2,117	18	0.082
07/22/05	891,713	1,901	11	0.120
08/23/05	897,700	5,987	32	0.130
09/09/05	900,080	2,380	17	0.097
09/21/05	901,265	1,185	12	0.069
10/14/05	902,481	1,216	23	0.037
10/26/05	903,567	1,086	12	0.063
11/02/05	903,717	150	7	0.015
11/16/05	906,222	2,505	14	0.124
12/06/05	907,250	1,028	20	0.036
12/21/05	917,551	10,301	15	0.477
01/11/06	928,126	10,575	21	0.350
01/25/06	928,775	649	14	0.032

TABLE 1. SUMP DISCHARGE SUMMARY
FORMER CHEVRON SERVICE STATION #97863
SUMP LOCATED AT 20 E 20th STREET, SAN MATEO, CALIFORNIA

<i>Date</i>	<i>Totalizer Reading (gallons)</i>	<i>Total Flow Since Last Reading (gallons)</i>	<i>Time since Last Reading (days)</i>	<i>Average Flow Rate (gpm)</i>
02/08/06	929,090	315	14	0.016
02/22/06	934,922	5,832	14	0.289
03/08/06	954,719	19,797	14	0.982
03/22/06	976,468	21,749	14	1.079
04/11/06	998,501	22,033	20	0.765
04/13/06	1,003,441	4,940	2	1.715
04/26/06	1,019,199	15,758	13	0.842
05/12/06	1,027,519	8,320	16	0.361
05/28/06	1,033,828	6,309	16	0.274
06/07/06	1,035,782	1,954	10	0.136
06/26/06	1,039,455	3,673	19	0.134
08/01/06	1,043,713	4,258	36	0.082
08/23/06	1,045,575	1,862	22	0.059
09/08/06	1,046,845	1,270	16	0.055
09/20/06	1,047,620	775	12	0.045
10/10/06	1,049,949	2,329	20	0.081
11/09/06	1,053,363	3,414	30	0.079
11/21/06	1,056,984	3,621	12	0.210
12/12/06	1,067,339	10,355	21	0.342
01/03/07	1,077,635	10,296	22	0.325
01/16/07	1,080,577	2,942	13	0.157
01/31/07	1,083,943	3,366	15	0.156
02/15/07	1,095,951	12,008	15	0.556
03/06/07	1,114,091	18,140	19	0.663
03/21/07	1,120,894	6,803	15	0.315
04/03/07	1,125,655	4,761	13	0.254
04/17/07	1,129,285	3,630	14	0.180
05/01/07	1,137,226	7,941	14	0.394
05/15/07	1,141,707	4,481	14	0.222
05/31/07	1,145,367	3,660	16	0.159
06/12/07	1,147,171	1,804	12	0.104
06/26/07	1,148,527	1,356	14	0.067
07/11/07	1,149,420	893	15	0.041
07/24/07	1,149,925	505	13	0.027
08/16/07	1,150,672	747	23	0.023
08/28/07	1,151,377	705	12	0.041
09/24/07	1,153,716	2,339	27	0.060
10/15/07	1,162,001	8,285	21	0.274
10/31/07	1,165,037	3,036	16	0.132
11/15/07	1,169,550	4,513	15	0.209
12/11/07	1,177,033	7,483	26	0.200
01/03/08	1,189,363	12,330	23	0.372
01/04/08	1,195,416	6,053	1	4.203
01/24/08	1,195,516	10,656(b)	20	0.370
02/14/08	1,243,257	47,741	21	1.579
03/11/08	1,265,880	22,623	26	0.604
04/07/08	1,274,195	8,315	27	0.214
04/23/08	1,277,390	3,195	16	0.139
05/06/08	1,279,452	2,062	13	0.110
05/19/08	1,280,993	1,541	13	0.082
06/02/08	1,282,113	1,120	14	0.056

TABLE 1. SUMP DISCHARGE SUMMARY
FORMER CHEVRON SERVICE STATION #97863
SUMP LOCATED AT 20 E 20th STREET, SAN MATEO, CALIFORNIA

<i>Date</i>	<i>Totalizer Reading (gallons)</i>	<i>Total Flow Since Last Reading (gallons)</i>	<i>Time since Last Reading (days)</i>	<i>Average Flow Rate (gpm)</i>
06/18/08	1,282,709	596	16	0.026
07/01/08	1,282,934	225	13	0.012
07/14/08	1,283,106	172	13	0.009
07/29/08	1,283,180	74	15	0.003
08/11/08	1,283,180	0	13	0.000
08/28/08	1,283,220	40	17	0.002
09/08/08	1,283,229	9	11	0.001
09/25/08	1,283,251	22	17	0.001
11/17/08	1,285,914	2,663	53	0.035
12/01/08	1,286,446	532	14	0.026
12/16/08	1,288,254	1,808	15	0.084
12/30/08	1,290,187	1,933	14	0.096
01/14/09	1,290,877	690	15	0.032
01/26/09	1,293,342	2,465	12	0.143
02/10/09	1,295,919	2,577	15	0.119
02/26/09	1,326,673	30,754	16	1.335
03/11/09	1,332,576	5,903	13	0.315
03/24/09	1,337,402	4,826	13	0.258
04/09/09	1,340,167	2,765	16	0.120
04/23/09	1,341,505	1,338	14	0.066
05/04/09	1,342,137	632	11	0.040
05/18/09	1,342,602	465	14	0.023
06/01/09	1,342,757	155	14	0.008
06/15/09	1,342,765	8	14	0.000
07/14/09	1,342,846	81	29	0.002
10/05/09	1,343,466	620	83	0.005
11/02/09	858,925	NA	NA	NA
01/18/10	865,710	6,785	77	0.061
03/29/10	879,030	13,320	70	0.132
04/12/10	893,221	14,191	14	0.704
07/07/10	907,365	14,144	86	0.114
10/04/10	907,678	313	89	0.002
01/18/11	939,290	31,612	106	0.207
04/21/11	1,015,535	76,245	93	0.569
07/14/11	1,027,218	11,683	84	0.097
08/27/11 d	1,027,695	477	44	0.008
09/29/11	1,027,700	5	33	0.000
12/21/11	1,033,190	5,490	83	0.046
03/17/12	1,050,938	17,748	87	0.142
03/19/12	1,051,782	844	2	0.293
03/29/12	1,058,100	6,318	10	0.439
06/20/12	1,059,691	1,591	83	0.013
06/29/12	1,059,691	0	9	0.000
07/06/12	1,059,600	0	7	0.000
08/02/12	1,059,600	0	27	0.000
09/23/12	1,060,315	715	52	0.010
09/23/12	111	0	0	0.000
12/03/12	--	--	71	--
12/05/12	18,420	18,309	2	0.174
12/10/12	18,900	480	5	0.067

TABLE 1. SUMP DISCHARGE SUMMARY
FORMER CHEVRON SERVICE STATION #97863
SUMP LOCATED AT 20 E 20th STREET, SAN MATEO, CALIFORNIA

<i>Date</i>	<i>Totalizer Reading (gallons)</i>	<i>Total Flow Since Last Reading (gallons)</i>	<i>Time since Last Reading (days)</i>	<i>Average Flow Rate (gpm)</i>
12/17/12	20,217	1,317	7	0.131
12/27/12	32,372	12,155	10	0.844
12/31/12	34,965	2,593	4	0.450
01/07/13	36,773	1,808	7	0.179
01/14/13	37,670	897	7	0.089
01/21/13	38,052	382	7	0.038
01/25/13	38,460	408	4	0.071
01/28/13	38,677	217	3	0.050
02/05/13	38,855	178	8	0.015
02/08/13	39,580	725	3	0.168
02/14/13	39,600	20	6	0.002
02/19/13	40,285	685	5	0.095
02/25/13	40,638	353	6	0.041
03/04/13	40,848	210	7	0.021
03/07/13	41,511	663	3	0.153
03/11/13	41,818	307	4	0.053
03/22/13	42,110	292	11	0.018
03/25/13	42,276	166	3	0.038
04/01/13	43,590	1,314	7	0.130
04/11/13	44,900	1,310	10	0.091
04/22/13	44,970	70	11	0.004
04/29/13	45,015	45	7	0.004
05/06/13	45,065	50	7	0.005
05/20/13	45,105	40	14	0.002
06/03/13	45,130	25	14	0.001
08/26/13	45,247	117	84	0.001
11/12/13	55,967	10,720	78	0.095

Abbreviations and Notes:

gpm = Gallons per minute

--- = not measured/not available

- (a) = System totalizer was removed 9/24/99 because sediment and algae were affecting its performance. Flow rates between 9/24/99 and 11/12/99 are based on a historical maximum flow rate of 0.28 gpm.
- (b) = System totalizer stuck 1/4/08 through 1/24/08. Flow rate based on historical maximum flow rate.
- (c) = System totalizer removed 10/12/09 and replaced on 11/02/09.
New Totalizer reads 858,864 upon system restart.
- (d) = Reading taken from arrival data on 9/29/11. This is the last measurement recorded after disconnecting the sump pumps

TABLE 2. SUMP WATER ANALYTICAL RESULTS
FORMER CHEVRON SERVICE STATION #97863
SUMP LOCATED AT 20 E 20th STREET, SAN MATEO, CALIFORNIA

Sample Location	Sample Date	Laboratory	TPHg	B	T	E	X	MTBE	Electrical Conductivity umhos/cm	Notes
Sump Water	02/11/98	Sequoia	690	120	11	11	16	---	---	A
System Influent	07/28/99	Sequoia	270	15	<1.0	1.0	2.4	---	---	B
System Midpoint	07/28/99	Sequoia	<50	<0.5	<0.5	<0.5	<0.5	---	---	B
System Effluent	07/28/99	Sequoia	<50	<0.5	<0.5	<0.5	<0.5	---	---	B
Sump Water	11/16/99	Sequoia	194	13	1.02	1.02	1.42	---	---	
Sump Water	12/17/99	---	---	---	---	---	---	---	---	C
Sump Water	01/19/00	Sequoia	268	25.9	1.77	2.67	3.91	---	---	
Sump Water	02/29/00	Sequoia	815	95.1	4.22	7.09	6.47	43.4	---	
Sump Water	03/22/00	Sequoia	1,450	173	8.96	12.6	20	14.7	---	
Sump Water	04/25/00	Sequoia	1,020	90.3	4.88	6.81	12.4	30.6	---	
Sump Water	05/30/00	Sequoia	514	30.4	1.76	2.57	3.8	---	---	
Sump Water	06/22/00	Sequoia	380	26	3.1	2.9	4.7	31	---	
Sump Water	07/25/00	Sequoia	140	12	<1.3	<1.3	<1.3	16	---	
Sump Water	08/31/00	Sequoia	123	4.15	<0.5	<0.5	<0.5	6.75	---	
Sump Water	09/26/00	Sequoia	78.1	3.31	<0.5	<0.5	<0.5	7.48	---	
Sump Water	10/19/00	Sequoia	98.9	4.43	<0.5	<0.5	<0.5	5.47	---	
Sump Water	11/13/00	Sequoia	213	14.4	3.3	1.38	4.07	19.9	---	
Sump Water	12/12/00	Sequoia	211	12.4	<0.5	0.827	1.32	6.96	---	
Sump Water	01/02/01	Sequoia	339	20.4	1.17	1.63	1.80	12.3	---	
Sump Water	04/03/01	Sequoia	1,350	131	6.85	8.76	13.6	19.5	---	
Sump Water	07/31/01	Sequoia	150	7.2	<0.5	0.65	1.3	---	---	
Sump Water	10/24/01	Lancaster	100	2.5	<0.5	<0.5	<1.5	5.4	---	
Sump Water	01/10/02	Lancaster	1,000	120	5.90	8.20	11	25	---	
Sump Water	04/02/02	Lancaster	1,400	88	2.70	2.70	7	10	---	
Sump Water	08/14/02	Lancaster	170	9.5	<0.5	<0.5	<1.5	4.2	---	
Sump Water	08/14/02	Lancaster	170	9.5	<0.5	<0.5	<1.5	4.2	---	
Sump Water	10/17/02	Lancaster	<50	1	<0.5	<0.5	<0.5	0.5	---	
Sump Water	01/15/03	Lancaster	1,300	99	5.7	6.7	9.5	<10	---	
Sump Water	04/09/03	Lancaster	1,200	95	4.0	3.7	8.8	28	---	
Sump Water	07/10/03	Lancaster	960	24	0.6	0.7	2	2	---	
Sump Water	11/05/03	Lancaster	180	4	<0.5	<0.5	<0.5	1	---	
Sump Water	01/30/04	Lancaster	1,300	78	4	4	6	3	---	
Sump Water	04/06/04	Lancaster	3,300	110	6	<5	10	<5	---	
Sump Water	07/21/04	Lancaster	220	14	<0.5	<0.5	0.6	2	---	
Sump Water	10/12/04	Lancaster	2,100	27	2	2	17	14	---	
Sump Water	12/28/04	Lancaster	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	
Sump Water	01/13/05	Lancaster	400	50	4	4	4	10	---	
Sump Water	04/22/05	Lancaster	3,000	290	19	12	30	22	---	
Sump Water	07/22/05	Lancaster	920	36	1	1	3	1	---	
Sump Water	09/21/05	Lancaster	440	12	<0.5	<0.5	0.6	0.5	---	
Sump Water	10/26/05	Lancaster	100	<3	<3	<3	<3	<3	---	D
Sump Water	01/25/06	Lancaster	2,600	260	14	13	23	10	---	
Sump Water	04/26/06	Lancaster	3,100	190	12	14	24	9	---	
Sump Water	09/08/06	Lancaster	-	8	< 0.8	< 0.8	1	2	---	E
Sump Water	11/09/06	Lancaster	420	5	< 0.8	< 0.8	< 0.9	< 1	---	
Effluent	01/03/07	Lancaster	1,200	58	2	1	2	2	---	
Effluent	04/03/07	Lancaster	2,700	160	9	8	13	4	---	

TABLE 2. SUMP WATER ANALYTICAL RESULTS
FORMER CHEVRON SERVICE STATION #97863
SUMP LOCATED AT 20 E 20th STREET, SAN MATEO, CALIFORNIA

Sample Location	Sample Date	Laboratory	TPHg	B	T	E	X	MTBE	Electrical Conductivity umhos/cm	Notes
Effluent	07/11/07	Lancaster	1,100	33	1	1	2	2	---	
Effluent	10/15/07	Lancaster	210	6	< 0.8	< 0.8	< 0.9	< 1	---	
Effluent	01/24/08	Lancaster	1,200	90	4	3	6	2	---	
Effluent	04/07/08	Lancaster	2,800	170	11	9	20	4	---	
Effluent	07/01/08	Lancaster	1,400	70	2	0.9	3	2	---	
Effluent	10/01/08	Lancaster	< 50	< 0.9	< 0.8	< 0.8	< 0.9	< 1	---	
Effluent	01/14/09	Lancaster	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	---	
Effluent	02/10/09	Lancaster	< 50	1.8	< 0.5	< 0.5	< 1.5	< 0.5	---	
Effluent	04/06/09	Lancaster	1,300	77	5.5	3.2	11	2	---	
Effluent	07/14/09	Lancaster	72	2.6	< 0.5	< 0.5	< 1.5	< 0.5	---	
Effluent	10/05/09	Lancaster	< 50	2.5	< 0.5	< 0.5	< 1.5	< 0.5	---	
Effluent	01/18/10	Lancaster	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	---	
Effluent	04/12/10	Lancaster	300	17	1.1	0.6	2.3	< 0.5	---	
Effluent	07/07/10	Lancaster	1,900	110	7.0	4.5	11	2	---	
Effluent	10/04/10	Lancaster	250	5.2	< 0.5	0.5	< 1.5	< 0.5	---	
Effluent	01/18/11	Lancaster	2,400	220	14	7.7	18	2	---	
Effluent	04/21/11	Lancaster	1,800	86	7.1	6.8	17	1	---	
Effluent	07/14/11	Lancaster	1,700	78	4.1	2.5	< 10.0	1	---	
Sump Water	08/31/11	Lancaster	<20	0.4	<0.2	<0.2	<0.6	<0.5	382	
SP-1	03/29/12	Lancaster	380	10	0.6	0.6	< 3.0	<0.5	778	
SP-1	06/20/12	Lancaster	350	1.8	0.3	0.7	<3.0	<0.5	677	
SP-1	12/31/12	Lancaster	<20	0.3	<0.2	<0.2	<0.6	<0.5	598	
SP-1	03/25/13	Lancaster	<20	<0.2	0.3	<0.2	<0.6	<0.5	723	
SP-1	06/03/13	Lancaster	78	0.5	1.3	<0.2	<0.6	<0.5	753	
SP-1	08/26/13	Lancaster	<400	<4.0	<4.0	6.5	15	<0.5	1,910	
SP-1	11/12/13	Lancaster	<20	<0.2	<0.2	<0.2	<0.6	<0.5	300	

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline by EPA Methods 5030B/Modified 8015

B, T, E, and X = Benzene, toluene, ethylbenzene, and xylenes by EPA Methods 5030/8020/8021

MTBE = Methyl tertiary butyl ether by EPA Methods 5030/8020 and EPA Method 8260

Electrical Conductivity analyzed by SM20 2510B

<n = Below detection limit of n ug/l

A = Sample was also analyzed for volatile organic compounds by EPA Methods 5030/8260. Results were below the laboratory reporting limit.

B = Sump discharge was passed through carbon drums between July and September 1999. System influent, midpoint, and effluent samples were only necessary during this period.

C = No samples were collected on December 17, 1999, because not enough water was in the sump to sample.

D = BTEX and MTBE sample analytical reporting limits were raised from 0.5 to 3 due to sample foaming.

E = TPHg was not sampled due to technician error.

Sump water samples have been collected from a sample port (SP-1) on the sump pump discharge line since November 16, 1999, except on August 31, 2011.

ATTACHMENT A

MEETING NOTES FROM THE CITY

**20 E. 20th Sanitary Sewer Discharges
October 24, 2013
Meeting Notes**

Attendees

Property Owner	Chevron	City
Dave Curson	Catalina Espino Devine	Larry Patterson
Herman Kalfen	Brandon Wilken	Ray Towne
	Robert Goodman	Pete Dalla-Betta
		Gabrielle Whelan
		Sandy Mathews

These notes summarize the major issues discussed including unresolved issues and the agreements reached to move forward.

1. Representatives for Chevron stated they have a contractor ready to begin work on December 1, 2013, based on the submitted plans and that the construction will take 12-15 work days.
2. Representatives for the Property Owner stated this construction period, while not ideal, would be acceptable.
3. Representatives for the Property Owner and Chevron stated prior to the meeting they reached agreement that the construction work by Chevron would include sealing the elevator wet well.

4. Issues to be resolved:

- Permission to continue discharge to sanitary sewer during confirmation period.
- Frequency and duration of confirmation sampling.
- Contributions from other sources (weep holes and unpaved contaminated soil adjacent to retaining wall).

i. Permission to continue discharge to sanitary sewer during confirmation period

Representatives for the City agreed to allow continued discharge to the sanitary sewer during the confirmation period.

ii. Frequency and duration of confirmation sampling

Duration: All parties agreed the confirmation period would extend from the completion of the project through May 1, 2015 to allow for a full wet and dry season to be considered.

Frequency: All agreed to the following the sampling frequency

- During the wet season confirmation sampling would occur monthly.
 - January, February, March; April 2014; November, December, January, February, March; April 2015

- During the dry season sampling would occur quarterly.
 - May-July, Aug-Oct 2014

iii. Contributions from other sources

While the parties did not reach agreement on the contributions from other sources, they discussed the possibility of stormwater migrating through the soil column adjacent to the retaining wall picking up hydrocarbons. This water would potentially discharge through the weep holes. One possible remedy discussed was paving the area of exposed soil to prevent infiltration of water.

Representatives for the Property Owner and Chevron agreed that no other work needs to be done at this time to address the weep holes or soil adjacent to the retaining wall.

Representatives for Chevron agreed to initiate investigation into paving the soil adjacent to the retaining wall, e.g., speak with property owner, evaluate feasibility.

All parties agreed that the data from the initial wet season sampling will be evaluated to assess whether there appears to be continued hydrocarbon contributions. If so, additional upgrades will be needed and could be undertaken in the dry season.

5. Representatives for the Property Owner and Chevron agreed to use a mediator, William Nagle in Burlingame, to assist in the resolution of future issues of contention in this matter.
6. Post Meeting Notes:

Ray Towne confirmed that Chevron has all the permits needed to initiate the work. Chevron does have the permits. However, the approved plans show discharge to the storm drainage system. Ray will work with the Building Department to determine what is needed to modify the plans to show discharge to the sanitary sewer. Ray will communication with Chevron if any changes are needed.

**20 E. 20th Sanitary Sewer Discharges
November 22, 2013
Meeting Notes**

Attendees

Property Owner	Chevron	City
Dave Curson	Brandon Wilken (CRA)	Larry Patterson
Herman Kalfen	Robert Goodman (RJO)	Ray Towne
	Brian Waite (Chevron)	Susanna Chan
		Pete Dalla-Betta
		Sandy Mathews

These notes summarize the major issues discussed including unresolved issues and the agreements reached during the telephone conference call.

1. **Sealant:** Xypex requires a 15-day cure time. Concern that by doing construction in December the surface will get wet before curing is complete.

Resolution: Megamix I is a sealant that can be applied over the Xypex within 2-4 hours of the Xypex application and is ready in 24 hours.

Next steps: Parties to review the information distributed by Brandon on 11/21/2014.

2. **Logistics Plan:** Concern that the logistics plan has not been provided in writing.

Resolution: CRA will provide the Property Owner with the logistics plan by close-of-business today 11/22/2013.

3. **Catch Basin:** The plans showed catch basin with weep holes. Concern that this is counter to the objective of sealing the system from groundwater.

Resolution: The catch basin that is ordered for the project will not have weep holes. The catch basin will be verified when it is delivered to the site to confirm there are no weep holes.

4. **Site Monitors:** Concern that monitors are present to ensure system does not flood during construction.

Resolution: CRA will have three on-site monitors during construction: one will be inside coordinating with the contractor; one will be outside to ensure clients of FHAR and others do not enter the construction zone and are directed to safe paths; and one will monitor the alternate parking locations. CRA will have an electronic system that monitors the pumps and sends an alert if they are not functioning.

Next steps: CRA will send the parties the emergency response plan to handle water/flooding during the construction period when the pumps are shut down. Preliminary details will be included with the logistics plan, see item 2. Further details will be sent in the next two days.

5. **Maintenance Agreement:** Concern that an agreement for maintenance of the catch basin and system has not been resolved.

Resolution: Agreed that it is preferable to install a catch basin that has an option for a Flo-Guard filter. Parties agreed the work could proceed in parallel with the development of the maintenance agreement. Chevron and the Property Owner will work with the mediator agreed to in October to come to a resolution on the maintenance costs and responsibilities.

Next steps: Chevron and the Property owner will contact the mediator to negotiate the maintenance agreement.

6. **Other Issues:**

- a. Access Agreement: Robert will email the access agreement to Herman.
- b. Insurance Certificates: Brandon will send CRA and the prime contractor's insurance certificates that name FHAR as additionally insured.

7. **Confirmation:** Confirm by email that concerns identified above have been resolved by Wednesday 11/27/2013.

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

November 25, 2013

Project: 97863

Submittal Date: 11/15/2013
Group Number: 1434440
PO Number: 0015119899
Release Number: SHRILL HOPKINS
State of Sample Origin: CA

Client Sample Description
SP-1-W-131112 Grab Water

Lancaster Labs (LL) #
7279981

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO
ELECTRONIC COPY TO
ELECTRONIC COPY TO
ELECTRONIC COPY TO

Chevron
CRA
CRA

Attn: CRA EDD
Attn: Brandon Wilken
Attn: Jeff Schrupp

Respectfully Submitted,



Natalie R. Luciano
Senior Specialist

(717) 556-7258



Lancaster Laboratories
Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: SP-1-W-131112 Grab Water
Facility# 97863 CRAW
2009 El Camino-San Mateo T0608100553

LL Sample # WW 7279981
LL Group # 1434440
Account # 10880

Project Name: 97863

Collected: 11/12/2013 13:20 by JS

ChevronTexaco

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 11/15/2013 16:05

Reported: 11/25/2013 22:14

CSMS1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
GC	Volatiles	SW-846 8015B	ug/l	ug/l	ug/l	
01636	TPH-GRO water C6-C10	n.a.	N.D.	20	50	1
GC	Volatiles	SW-846 8021B	ug/l	ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.2	1.0	1
02102	Ethylbenzene	100-41-4	N.D.	0.2	1.0	1
02102	Toluene	108-88-3	N.D.	0.2	1.0	1
02102	Total Xylenes	1330-20-7	N.D.	0.6	3.0	1
Wet Chemistry	SM 2510 B-1997		umhos/cm	umhos/cm	umhos/cm	
12146	Specific Conductance	n.a.	300	1.7	5.0	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	MTBE 8260 Water	SW-846 8260B	1	D133252AA	11/21/2013 13:47	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D133252AA	11/21/2013 13:47	Daniel H Heller	1
01636	TPH-GRO water C6-C10	SW-846 8015B	1	13324B53A	11/21/2013 20:17	Marie D Beamenderfer	1
02102	8021 BTEX	SW-846 8021B	1	13324B53A	11/21/2013 20:17	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	13324B53A	11/21/2013 20:17	Marie D Beamenderfer	1
12146	Specific Conductance	SM 2510 B-1997	1	13322003104A	11/18/2013 22:40	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: ChevronTexaco
Reported: 11/25/13 at 10:14 PM

Group Number: 1434440

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D133252AA Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	115		75-120		
Batch number: 13324B53A	N.D.	0.2	1.0	ug/l	101	102	80-120	1	30
Ethylbenzene	N.D.	0.2	1.0	ug/l	99	101	80-120	2	30
Toluene	N.D.	0.2	1.0	ug/l	101	102	80-120	2	30
TPH-GRO water C6-C10	N.D.	20.	50	ug/l	105	107	75-135	2	30
Total Xylenes	N.D.	0.6	3.0	ug/l	103	105	80-120	2	30
Batch number: 13322003104A Specific Conductance	N.D.	1.7	5.0	umhos/cm	100		96-104		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: D133252AA Methyl Tertiary Butyl Ether	105	103	72-126	1	30	UNSPK: P276628			
Batch number: 13322003104A Specific Conductance						BKG: P279924	606	606	0

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: UST VOCs by 8260B - Water
Batch number: D133252AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7279981	96	95	99	95
Blank	98	96	98	94
LCS	94	98	98	99

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: ChevronTexaco
 Reported: 11/25/13 at 10:14 PM

Group Number: 1434440

Surrogate Quality Control

MS	97	100	98	98
MSD	97	98	98	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO water C6-C10

Batch number: 13324B53A

	Trifluorotoluene-F	Trifluorotoluene-P
7279981	76	76
Blank	69	75
LCS	77	75
LCSD	77	74

Limits: 63-135 51-120

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only
 Acct. # 10880 Group # 1434440 Sample # 7279981
 SCR#: _____

111413-02 1062

Facility #: Chevron 9-7863 OM-L GLOBAL ID: TO608100553
 Site Address: 2009 El Camino Real, San Mateo, CA (Sump Location: 20 E 20th)
 Chevron PM: Catalina Espino Devine Lead Consultant: Conestoga-Rovers & Associates
 Consultant/Office: 5900 Hollis Street, Suite A, Emeryville, CA 94608
 Consultant Prj. Mgr.: Brandon Wilken
 Consultant Phone #: (510) 420 - 0700 Fax #: (510) 420 - 9170
 Sampler: Jeff Schrupp

Analyses Requested

Preservation Codes		H		H		H	
BTEX + MTBE 8260	<input type="checkbox"/> 8021						
TPH by 8260 (GRO)	<input type="checkbox"/>						
TPH 8015 MOD DRO	<input type="checkbox"/>						
8260 full scan	<input type="checkbox"/>						
BTEX EPA 8021	<input type="checkbox"/>						
Lead 7420	<input type="checkbox"/>						
MTBE EPA 8260B	<input type="checkbox"/>						
TPH(GRO) by 8015	<input type="checkbox"/>						
Specific Conductance by 2510B	<input type="checkbox"/>						

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

J value reporting needed
 Must meet lowest detection limits possible for 8260 compounds
 8021 MTBE Confirmation
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy's on highest hit
 Run ___ oxy's on all hits

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260	TPH by 8260 (GRO)	TPH 8015 MOD DRO	8260 full scan	BTEX EPA 8021	Lead 7420	MTBE EPA 8260B	TPH(GRO) by 8015	Specific Conductance by 2510B
SP-1	W			2013-11-12	1320		X		78					X	X	X	X	

Comments / Remarks
 VOAs w/ HCl, 1-500ml poly
 Email EDF:
chevroneidf@craworld.com
 Email report:
jschrupp@craworld.com
 CC:
bwilken@craworld.com

Turnaround Time Requested (TAT) (please circle)
 STD. TAT 72 hour 48 hour
 24 hour 4 day 5 day

Data Package Options (please circle if required)
 QC Summary Type I - Full
 Type VI (Raw Data) Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by: <i>David Small</i>	Date 11/14/13	Time 1045	Received by: <i>[Signature]</i>	Date 11/14/13	Time 1045
Relinquished by: <i>A. [Signature]</i>	Date 14 NOV 13	Time 1638	Received by: SOUTHWEST	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other _____	Temperature Upon Receipt <u>0.3-2.7</u> °C		Received by: <i>[Signature]</i>	Date 11/15/13	Time 1605
			Custody Seals Intact? <input checked="" type="checkbox"/> Yes No		

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

EXHIBIT 5

From: Waite, Brian A <BWaite@chevron.com>
Sent: Wednesday, March 05, 2014 12:30 PM
To: Charles Ice
Cc: Wilken, Brandon
Subject: Former Chevron Station 97866 - 2009 South El Camino Real, San Mateo, CA GPP Site# 110083
Attachments: Letter to Charles Ice 030514.pdf

Charles,

Thank you for taking the time to discuss this site with me yesterday. Attached you will find a letter requesting that San Mateo County Groundwater Protection Program formally reopen the above referenced case.

Thank you,

Brian A. Waite, P.G.
Project Manager
Chevron Environmental Management Company
Marketing Business Unit
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel 925-790-6486
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Via Email (cice@co.sanmateo.ca.us)

Charles Ice, PG
Hazardous Materials Specialist
Groundwater Protection Program Lead
San Mateo County Environmental Health
2000 Alameda De Las Pulgas, Suite 100
San Mateo CA 94403

Re: Former Chevron Station 97866 – 2009 South El Camino Real, San Mateo, California
GPP Site # 110083

Dear Mr. Ice:

I am writing to follow up on our conversation of yesterday in which on behalf of Chevron Environmental Management Company (CEMC) I requested that San Mateo County Groundwater Protection Program (GPP) formally reopen the above referenced case. As you know, CEMC has been working under the oversight of the City of San Mateo to implement work at the neighboring property (20 E. 20th Avenue) to prevent groundwater from entering the storm drainage system and related sump at that property. CEMC, also under the oversight of the City, is engaging in confirmation sampling for the next year to confirm the effectiveness of this work. CEMC believes that it would be appropriate for GPP, as the Local Oversight Program, to be involved in this process, as well as to oversee any future assessment work, and to consider any future requests for closure. Currently all discharges from the sump at 20 E. 20th Avenue are discharged to the City's sanitary sewer collection, pursuant to a discharge permit, as was the case when GPP originally closed this case.

Thank you for your consideration of this request.

Sincerely,

Brian A. Waite
Project Manager

cc: Brandon Wilken, CRA