



GARDENA CITY COUNCIL

Regular Meeting Notice and Agenda

Council Chamber at City Hall

1700 West 162nd Street, Gardena, California

Website: www.cityofgardena.org

Tuesday, May 24, 2022
Open Session 7:30 p.m.

TASHA CERDA, *Mayor*

RODNEY G. TANAKA, *Mayor Pro Tem*

PAULETTE C. FRANCIS, *Council Member*

ART KASKANIAN, *Council Member*

MARK E. HENDERSON, *Council Member*

MINA SEMENZA, *City Clerk*

J. INGRID TSUKIYAMA, *City Treasurer*

CLINT OSORIO, *City Manager*

CARMEN VASQUEZ, *City Attorney*

LISA KRANITZ, *Assistant City Attorney*

PETER L. WALLIN, *Deputy City Attorney*

In order to minimize the spread of the COVID 19 virus Governor Newsom has signed AB 361. Please be advised that the Council Chambers are closed to the public and that some, or all, of the Gardena City Council Members may attend this meeting telephonically.

If you would like to participate in this meeting, you can participate via the following options:

1. VIEW THE MEETING live on SPECTRUM CHANNEL 22 or ONLINE at [youtube.com/CityofGardena](https://www.youtube.com/CityofGardena)
2. PARTICIPATE BEFORE THE MEETING by emailing the Deputy City Clerk at publiccomment@cityofgardena.org by 5:00p.m. on the day of the meeting and write "Public Comment" in the subject line.
3. PARTICIPATE DURING THE MEETING VIA ZOOM WEBINAR
 - o <https://us02web.zoom.us/j/86941611992>
Phone number: US: +1 669 900 9128, Meeting ID: 869 4161 1992
Press *9 to Raise your Hand and *6 to unmute when prompted.
 - o If you wish to speak live on a specific agenda item during the meeting you, may use the "Raise your Hand" feature during the item you wish to speak on. For Non-Agenda Items, you would be allowed to speak during Oral Communications, and during a Public Hearing you would be allowed to speak when the Mayor opens the Public Hearing. Members of the public wishing to address the City Council will be given three (3) minutes to speak.
4. The City of Gardena, in complying with the Americans with Disabilities Act (ADA), requests individuals who require special accommodations to access, attend and/or participate in the City meeting due to disability, to please contact the City Clerk's Office by phone (310) 217-9565 or email bromero@cityofgardena.org at least 24 business hours prior to the scheduled general meeting to ensure assistance is provided. Assistive listening devices are available.

The City of Gardena thanks you in advance for taking all precautions to prevent spreading the COVID 19 virus.

STANDARDS OF BEHAVIOR THAT PROMOTE CIVILITY AT ALL PUBLIC MEETINGS

- Treat everyone **courteously**;
- Listen to others **respectfully**;
- Exercise **self-control**;
- Give **open-minded** consideration to all viewpoints;
- Focus on the issues and **avoid personalizing debate**; and
- **Embrace respectful disagreement** and dissent as democratic rights, inherent components of an inclusive public process, and tools for forging sound decisions.

Thank you for your attendance and cooperation

1. **ROLL CALL**

PUBLIC COMMENT ON CLOSED SESSION

The City Council will hear from the public only on the items that have been described on this agenda (GC §54954.3)

2. **CLOSED SESSION**

3. **PLEDGE OF ALLEGIANCE**

Arianna Duncan & Bianca Novoa
Amestoy Elementary School

4. **INVOCATION**

Presented by Mayor Pro Tem Rodney G. Tanaka

5. **PRESENTATIONS**

5.A Boards & Commissions Update - Senior Citizens Commission

5.B Recognition of Hong Lee (City Employee) and her efforts to curb violence against Asian Pacific Americans

5.C Youth Engagement for Optimal Youth Development - Partnerships in Action

6. **PROCLAMATIONS**

7. **APPOINTMENTS**

8. **CONSENT CALENDAR**

NOTICE TO THE PUBLIC - Roll Call Vote Required On The Consent Calendar

All matters listed under the Consent Calendar will be enacted by one motion unless a Council Member requests Council discussion, in which case that item will be removed from the Consent Calendar and considered separately following this portion of the agenda.

- 8.A Waiver of Reading in Full of All Ordinances Listed on This Agenda and that they Be Read by Title Only
CONTACT: CITY CLERK
- 8.B Approve Minutes:
Regular Meeting of the City Council, May 10, 2022
Special Closed Session Meeting, May 19, 2022
CONTACT: CITY CLERK
[05102022 REGULAR Minutes Gardena CC Meeting - FINAL.pdf](#)
[05192022 Special Closed Session CC Meeting Minutes - FINAL.pdf](#)
- 8.C Receive and File of Minutes:
Planning & Environmental Quality Commission, March 15, 2022
CONTACT: COMMUNITY DEVELOPMENT
[22_03_15 PCMINS Signed.pdf](#)
- 8.D Approval of Warrants/Payroll Register, May 24, 2022
CONTACT: CITY TREASURER
[Warrant-Payroll Register 05-24-22.pdf](#)
- 8.E Monthly Portfolio, March 2022
CONTACT: CITY TREASURER
[March 2022 Investment Report.pdf](#)
- 8.F Personnel Report P-10 5-24-22
CONTACT: HUMAN RESOURCES
[PERS RPT P-2022-10 5-24-22.doc](#)
- 8.G RESOLUTION NO. 6579, Making the legally required findings to Re-Authorize the use of Teleconferencing in accordance with Assembly Bill 361 for meetings of the Gardena City Council and other Commissions, Committees and Boards subject to State open meeting laws.
CONTACT: CITY MANAGER
[RESO NO 6579.pdf](#)
- 8.H Second Reading and Adoption of Ordinance No. 1840: Adopting Chapter 18.74 to Title 18, Zoning, of the Gardena Municipal Code Relating to Reasonable Accommodations Policy and Procedures and Directing Staff to File a Notice of Exemption from California Environmental Quality Act Pursuant to the Common Sense Exemption
CONTACT: COMMUNITY DEVELOPMENT
[Planning Commission Packet, Dated February 15, 2022.pdf](#)
[Ordinance No. 1840](#)
- 8.I Second Reading and Adoption of Ordinance No. 1841, Adopting a Military Equipment Use Policy of the City of Gardena, California Governing the Use of Military Equipment pursuant to Assembly Bill 481
CONTACT: POLICE DEPARTMENT
[Attachment 1 - AB 481.pdf](#)
[Attachment 2 - Gardena Ordinance No 1841 with Exhibit A \(Military Equipment Policy\).pdf](#)

- 8.J [Approve the GTrans Zero-Emission Fleet Transition Plan](#)
CONTACT: TRANSPORTATION
[GTrans Zero-Emission Fleet Transition Plan FINAL 5_2022.pdf](#)

9. **EXCLUDED CONSENT CALENDAR**

10. **PLANNING & ENVIRONMENTAL QUALITY COMMISSION ACTION SHEET**

10.A MAY 17, 2022 MEETING

Site Plan Review #10-21 and Vesting Tentative Map No. 82437 (VMT #3-21)

The Planning Commission considered a request for approval of a site plan review, a vesting tentative map, and a density bonus request, concession and development waivers in accordance with State Density Bonus Law, to develop 22 attached condominium townhomes, including two low-income affordable units, on a 0.72-acre lot in the General Commercial and Mixed-Use Overlay zones that qualified for a categorical exemption to the California Environmental Quality Act as an Infill Development project.

Commission Action: The Planning Commission approved Resolution No. PC 8-22, by vote of 4-1-0, approving the project and directing staff to file a Notice of Exemption.

City Council Action: Receive and file or Call for Review (By way of two votes from the City Council)
[2022_05_17_PCAX.pdf](#)

ORAL COMMUNICATIONS (LIMITED TO A 30-MINUTE PERIOD)

Oral Communications by the public will be heard for one-half hour at or before 8:30 p.m. or at the conclusion of the last agenda item commenced prior to 8:30 p.m. Oral Communications not concluded at that time shall be resumed at the end of the meeting after Council Reports. Speakers are to limit their remarks to three minutes, unless extended by the Mayor. An amber light will appear to alert the speaker when two minutes are complete, and a red light will appear when three minutes are over. Your cooperation is appreciated.

11. **DEPARTMENTAL ITEMS - ADMINISTRATIVE SERVICES**

- 11.A [RESOLUTION NO. 6580, Amending the Amended Budget for Fiscal Year 2021-2022](#)

Staff Recommendation: Adopt Resolution No. 6580

[Resolution 6580 - Amending the City of Gardena's Budget for Fiscal Year 2021-2022.pdf](#)

[Staff Report for Budget Amendments 5-24-22.doc](#)

[Budget Amendments for Fiscal Year 2021-2022-May 24 2022 City Council Meeting Presentation.pdf](#)

- 11.B [Presentation of the City of Gardena's Proposed Two-Year Budget for Fiscal Years 2022-2023 and 2023-2024](#)

Staff Recommendation: Receive and File

[Proposed Budget FY 2023 & 2024 Presentation-May 24 2022 CC.pdf](#)

[Proposed Budget Book - May 24 2022.pdf](#)

- 11.C [Single Audit Report Required for Federally Funded Programs for Fiscal Year Ended June 30, 2021](#)

Staff Recommendation: Receive and File

[2021_Gardena_Single Audit Report_FINAL_.pdf](#)
[Single_Audit_PPT.pdf](#)

12. **DEPARTMENTAL ITEMS - COMMUNITY DEVELOPMENT**

- 12.A [RESOLUTION NO. 6578, Authorizing the Community Development Department to Enforce the Requirements of AB 1276- Single-Use Foodware Accessories and Standard Condiments](#)

Staff Recommendation: Adopt Resolution No. 6578

[Bill Text - AB-1276 Single-use foodware accessories and standard condiments.pdf](#)
[RESOLUTION NO 6578.pdf](#)

- 12.B [Approve additional \\$350,000 in funding to pay BPR Consulting Group, Inc to Continue Providing Contracted Plan Check, Permitting, and Inspection Services.](#)

Staff Recommendation: Approve Additional Amount Requested

[Staff Report - Building Services FY21-22 Funding Request.pdf](#)

13. **DEPARTMENTAL ITEMS - ELECTED & CITY MANAGER'S OFFICES**

- 13.A [COVID-19 Update](#)

14. **DEPARTMENTAL ITEMS - POLICE**

15. **DEPARTMENTAL ITEMS - PUBLIC WORKS**

- 15.A [Award Professional Services Contract for the National Pollutant Discharge Elimination System \(NPDES\) Program Management Services for Fiscal Year 2022-2023, 2023-2024 and 2024-2025 in the amount of \\$689,193 to CWE Corporation.](#)

Staff Recommendation: Approve Professional Services Contract

[22-05-18 NPDES MS4 Consultant Agreement_CWE_Rev01.pdf](#)
[Exhibit A_Gardena NPDES-MS4 RFP.pdf](#)
[Exhibit B_CWE Proposal.pdf](#)

- 15.B [PUBLIC HEARING: RESOLUTION NO. 6556, Confirming the Diagram and Assessment contained in the Engineer's Report dated April 26, 2022 for the Gardena Artesia Boulevard Landscape Assessment District and ordering the levy of assessments on the same for Fiscal Year 2022-2023.](#)

Staff Recommendation: Conduct Public Hearing; allow each speaker three (3) minutes; and Adopt Resolution 6556

[Artesia Landscaping Resolution 6556.pdf](#)

- 15.C [PUBLIC HEARING: RESOLUTION NO. 6557](#), Confirming the Diagram and Assessment contained in the Engineer's Report dated April 26, 2022, for the Gardena Consolidated Street Lighting Assessment District and ordering the levy of assessments on the same for Fiscal Year 2022-2023.

Staff Recommendation: Conduct Public Hearing; allow each speaker three (3) minutes; and Adopt Resolution No. 6557
[Consolidated Light Resolution 6557.pdf](#)

- 15.D [RESOLUTION NO. 6577](#), Adopting a list of projects for Fiscal Year 2022-2023 funded by SB1: The Road Repair and Accountability Act of 2017.

Staff Recommendation: Adopt Resolution No. 6577
[Resolution 6577.pdf](#)

- 15.E Award Construction Contract for the Gardena Community Aquatic and Senior Center Project - Demolition Phase, JN 978 to Interior Demolition, Inc. in the amount of \$160,930 and approve the Project Plans & Specifications.

Staff Recommendation:

- Award Construction Contract
- Approve the Project Plans and Specifications

[01_JN 978 Aquatic & Senior Center Demo Phase_Final Specs.pdf](#)

[02_JN 978 Aquatic & Senior Center Demo Phase_Final Plans.pdf](#)

[03_JN 978 Project Location Map.pdf](#)

16. **DEPARTMENTAL ITEMS - RECREATION & HUMAN SERVICES**

17. **DEPARTMENTAL ITEMS - TRANSPORTATION**

18. **COUNCIL ITEMS**

19. **COUNCIL DIRECTIVES**

20. **CITY MANAGER REMARKS RE: DIRECTIVES / COUNCIL ITEMS**

21. **COUNCIL REMARKS**

1. COUNCIL MEMBER HENDERSON
2. COUNCIL MEMBER FRANCIS
3. MAYOR PRO TEM TANAKA
4. MAYOR CERDA
5. COUNCIL MEMBER KASKANIAN

22. **ANNOUNCEMENT(S)**

23. **REMEMBRANCES**

Mrs. Esther Barbick, 102 years of age and a long-time Gardena Resident. Mrs. Barbick passed away on May 9, 2022. She was recently honored on her 102nd birthday by the Mayor, Police and Fire Departments with a drive-by celebration. Mrs. Barbick is survived by her two daughters, Annie Roddy, member of COPCAP, and Elinor Barbick; and **Kathy Marie Adams**, 71 years of age and beloved mother of Kim Nolan, Administrative Analyst II, who works in our Public Works Department.

24. **ADJOURNMENT**

The Gardena City Council will adjourn to the Closed Session portion of the City Council Meeting at 7:00 p.m. followed by the Regular City Council Meeting at 7:30 p.m. on Tuesday, June 14, 2022.

I hereby certify under penalty of perjury under the laws of the State of California that the foregoing agenda was posted in the City Hall lobby not less than 72 hours prior to the meeting. A copy of said Agenda is available on our website at www.CityofGardena.org.

Dated this 20th day of May 2022

/s/ MINA SEMENZA
MINA SEMENZA, City Clerk

MINUTES
Regular Meeting Notice of the
Gardena City Council
Tuesday, May 10, 2022

In order to minimize the spread of the COVID 19 virus, Governor Newsom has signed Assembly Bill 361. Please be advised that the Council Chambers are closed to the public and that some, or all, of the Gardena City Council Members, may attend this meeting telephonically.

The Regular Meeting Notice and Agenda of the Gardena City Council of the City of Gardena, California, was called to order at 7:35 PM on Tuesday, May 10, 2022, via Zoom, Mayor Tasha Cerda presiding.

1. ROLL CALL

Present: Mayor Tasha Cerda; Mayor Pro Tem Rodney G. Tanaka; Council Member Mark E. Henderson; Council Member Art Kaskanian; and Council Member Paulette C. Francis; Other City Officials and Employees present: City Manager Clint Osorio; City Attorney Carmen Vasquez; and City Clerk Mina Semenza.

PUBLIC COMMENT ON CLOSED SESSION - None

2. CLOSED SESSION - None

3. PLEDGE OF ALLEGIANCE

Yuna Abad and Valerie Pedroza led the Pledge of Allegiance. Both Yuna and Valerie attend 153rd Street Elementary School. Yuna was chosen because she attends class every day, she completes her work on time and is always willing to try her best. Valerie was chosen because she has great leadership skills and is responsible, creative, resilient, and always willing to help.

4. INVOCATION

Presented by Mayor Pro Tem Rodney G. Tanaka

5. PRESENTATIONS

5.A 53rd Municipal City Clerks Week - Highlights - *to be given by City Clerk Mina Semenza - Video Presentation was made by City Clerk Mina Semenza. She thanked all staff/employees for a wonderful time. Mayor Cerda commended staff for their creativity.*

5.B Introduction of VIP Dance & Nutrition in recognition of the National Small Business Week - *In celebration of National Small Business Week, Economic Development Manager Jackie Choi came into the meeting and recognized business owner Vanessa Olea, CEO of VIP Dance and Nutrition. Ms. Olea was not available, but her daughter Daira Gonzalez spoke on her behalf and thanked Mayor, Council Members, and staff for the recognition. Mayor Cerda expressed her appreciation.*

6. **PROCLAMATIONS**

- 6.A Asian American & Pacific Islander Heritage Month
- ***was proclaimed by Mayor Cerda***
- 6.B Public Works Week - May 15 through May 21, 2022
- ***was proclaimed by Mayor Cerda***
- 6.C Provider Appreciation Day - May 06, 2022
- ***was proclaimed by Mayor Cerda***

7. **APPOINTMENTS**

8. **CONSENT CALENDAR**

- 8.A Waiver of Reading in Full of All Ordinances Listed on This Agenda and that they Be Read by Title Only
CONTACT: CITY CLERK
- 8.B Approve Minutes:
Regular Meeting of the City Council, April 26, 2022
CONTACT: CITY CLERK
- 8.C Approval of Warrants/Payroll Register, May 10, 2022
CONTACT: CITY TREASURER
- May 10, 2022: Wire Transfer: 12161-12165; Prepay: 167223-167229; Check Nos: 167230 -167395 – for a total Warrants issued in the amount of \$2,017,075.11 Total Payroll Issued for May 6, 2022: \$1,563,436.13.
- 8.D Personnel Report P-2022-9 5-10-22
CONTACT: HUMAN RESOURCES
- 8.E RESOLUTION NO. 6574, Re affirming Proclamation and Resolution No. 6441, which declared the Existence of a Local Emergency
CONTACT: CITY MANAGER

RESOLUTION NO. 6574

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF
GARDENA, CALIFORNIA, REAFFIRMING PROCLAMATION
AND RESOLUTION 6441 WHICH DECLARED THE
EXISTENCE OF A LOCAL EMERGENCY

- 8.F RESOLUTION NO. 6575, Making the legally required findings to Re-Authorize the use of Teleconferencing in accordance with Assembly Bill 361 for meetings of the Gardena City Council and other Commissions, Committees and Boards subject to State open meeting laws.
CONTACT: CITY MANAGER

RESOLUTION NO. 6575

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, MAKING THE LEGALLY REQUIRED FINDINGS TO RE-AUTHORIZE THE USE OF TELECONFERENCING IN ACCORDANCE WITH ASSEMBLY BILL 361 FOR MEETINGS OF THE GARDENA CITY COUNCIL AND OTHER COMMISSIONS, COMMITTEES AND BOARDS SUBJECT TO STATE OPEN MEETING LAWS

- 8.G Ratify Administrative Approval of the Elderly Nutrition Program Contract
ENP202105 Amendment Nine

CONTACT: RECREATION AND HUMAN SERVICES

It was moved by Council Member Henderson, seconded by Mayor Pro Tem Tanaka, and carried by the following roll call vote to Approve all Items on the Consent Calendar with the exception of Item 8.C:

Ayes: Council Member Henderson, Mayor Pro Tem Tanaka, Council Members Kaskanian and Francis, and Mayor Cerda

Noes: None

Absent: None

9. EXCLUDED CONSENT CALENDAR

- 8.C CITY TREASURER - Approval of Warrants/Payroll Register, May 10, 2022 - ***This Item was pulled by Council Members Francis***

Council Member Francis commented on the following: number of Business License renewals refunds; refunds for citation overpayments; a permit refund of \$3,000 and two (2) for \$2,000; she asked if there are glitches or a problem with the system or are these in-house errors; do we have a tracking system; she also asked about the Cal Card statement and how it operates; she noticed that the number of charges vary; how are purchases charged; wants to confirm that the expenditures are appropriate.

City Manager Osorio answered all Council Member Francis's questions regarding the refunds and explained the use of the credit cards and how each department has its charges come out of its own budget. He confirmed that Cal Cards are credit cards that are authorized by the City and everything on the voucher list is not out of the ordinary; these items have been budgeted and approved by the City Council during the budget cycle. Also, the voucher list show charges that we've had from the previous month that the City has paid for and is reconciled back to the system. He also explained in detail that one of the main functions of the City Council is to approve a budget for the entire year and different methods are used.

It was moved by Council Member Francis, seconded by Council Member Kaskanian, and carried by the following roll call vote to Approve Item 8.C:

Ayes: Council Members Francis and Kaskanian, Mayor Pro Tem Tanaka, Council Member Henderson, and Mayor Cerda

Noes: None

Absent: None

10. PLANNING & ENVIRONMENTAL QUALITY COMMISSION ACTION SHEET

10.A May 3, 2022 MEETING - *Meeting Cancelled*

ORAL COMMUNICATIONS

1. Traci Saruwatari, Community Organizer for ADAAP and Chair of GDAAP; she extended her gratitude for the Prescription Take Back Event for partnering with Gardena Police Department and Chief Saffell. She also shared that they were able to collect 163 pounds of prescription drugs - unused and expired medication. It was a successful event and the LA DEA was on site as well. She looks forward to partnering with the City, Gardena Police Department, and the DEA. She also wanted to make residents aware that there is a permanent drop-off box in front of the Police Department and some pharmacies like Rite Aid, Walgreens and CVS have drop boxes as well. Mayor Cerda was very pleased to hear that she had a very successful event.

11. DEPARTMENTAL ITEMS - ADMINISTRATIVE SERVICES

- 11.A Amendment to Contract between CALPERS Board of Administration and City of Gardena
 - a. RESOLUTION NO. 6576, Adopting the Resolution of Intention to Approve an Amendment to the Contract between Board of Administration of the California Public Employees' Retirement Systems and the City of Gardena
 - b. INTRODUCE ORDINANCE NO. 1842, Authorizing an Amendment to the Contract Between the Board of Administration the California Public Employees' Retirement System ("CALPERS") and the City of Gardena

City Manager Osorio presented the Staff Report.

RESOLUTION NO. 6576

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, ADPOTING THE RESOLUTION OF INTENTION TO APPROVE AN AMENDMENT TO THE CONTRACT BETWEEN THE BOARD OF ADMINISTRATION OF THE CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM AND THE CITY OF GARDENA

It was moved by Council Member Henderson, seconded by Mayor Pro Tem Tanaka, and carried by the following roll call vote to Adopt Resolution No. 6576:

Ayes: Council Member Henderson, Mayor Pro Tem Tanaka, Council Members Kaskanian and Francis, and Mayor Cerda

Noes: None

Absent: None

ORDINANCE NO.1842

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, AUTHORIZING AN AMENDMENT TO THE CONTRACT BETWEEN THE BOARD OF ADMINISTRATION OF THE CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM ("CALPERS") AND THE CITY OF GARDENA

Council Member Kaskanian introduced Ordinance No. 1842

It was moved by Council Member Francis, seconded by Council Member Kaskanian, and carried by the following roll call vote to Introduce Ordinance No. 1842:

Ayes: Council Members Francis and Kaskanian, Mayor Pro Tem Tanaka, Council Member Henderson, and Mayor Cerda
Noes: None
Absent: None

12. DEPARTMENTAL ITEMS - COMMUNITY DEVELOPMENT – *No Items*

13. DEPARTMENTAL ITEMS - ELECTED & CITY MANAGER'S OFFICES

13.A COVID-19 Update

City Manager Osorio presented the update.

14. DEPARTMENTAL ITEMS – POLICE – *No Items*

15. DEPARTMENTAL ITEMS - PUBLIC WORKS – *No Items*

16. DEPARTMENTAL ITEMS - RECREATION & HUMAN SERVICES – *No Items*

17. DEPARTMENTAL ITEMS – TRANSPORTATION – *No Items*

18. COUNCIL ITEMS – *No Items*

19. COUNCIL DIRECTIVES

Council Member Henderson

1. Asked if he can get the cost to mail-out a one-page survey with return postage to the households in our community, to get an accurate number of how many households have internet connection. *Mayor Pro Tem Tanaka seconded it.*

Council Member Kaskanian asked if it is known; how many households we will be send surveys to?

Council Member Francis

1. Asked for a follow-up regarding her last directive for the electronic signs at Rowley and Mas Fukai parks: can they be repaired or replaced? City Manager Osorio responded that they slated that for replacement rather than repair because the technology is older. He also asked for additional time to produce the memo since staff is working on developing a replacement CIP budget.
2. She thanked City Manager for the CARES Act Memo. She noticed that the funding for the businesses is gone. She asked about rental relief and if there is any more money in this account. City Manager Osorio stated that you have to have been negatively impacted before you can qualify - the program is very strict. She also asked if we have a plan in place to make our residents aware of the available funds. City Manager Osorio confirm that the city is doing its best to inform everyone of the COVID Rental Relief funds: using multiple outlets such as social media, the Honda Billboard and City events. Mayor Cerda added that Spectrum broadcasted the information on TV.
3. Asked for a list of consultants that we currently work with and for a performance matrix/status report. She stated that she would provide a list of specific consultants that she is referring to. City Manager Osorio informed her that the City has a numerous amount of consultants and it will take a voluminous amount of time to produce the report that is being requested. He asked if she could narrow the list of consultants to what she is referring to.

20. CITY MANAGER REMARKS RE: DIRECTIVES / COUNCIL ITEMS

City Manager Osorio gave a verbal report of information to follow-up on matters that had been directed or requested by the Mayor and Members of Council. Those items were, as follows:

1. Report regarding the COVID 19 Policies that were develop through the past two years which includes prevention program protocols for exposure; cleaning and disinfecting etc., a voluminous report.
2. Video presentation highlighting the Recreation and Human Services Department current and future events:
 - "Gardena On The Go" Trip to Cirque Du Soleil at the Microsoft Theater in Downtown Los Angeles, Friday April 29, 2022.
 - Join Us for Our First-Ever Mariachi and Maracas, Saturday, April 30, 2022.
 - The City of Gardena Food Truck & Street Fiesta presents The Inaugural Salsa Showdown, Saturday, April 30, 2022, at City Hall Complex.
 - Gardena Family Childcare - Provider Appreciation Dinner.
 - Ministerial Association Meeting & Lunch, Thursday, May 5, 2022 at the Nakaoka Community Center.
 - 35th Annual Bonsai Exhibit & Sale – Serenity through Bonsai; May 7 and 8, 2022 at Ken Nakaoka Community Center.

Upcoming Events:

- Senior Exercise Class. Classes begin Monday, May 9, 2022, at Rush Gymnasium. Mondays, Tuesdays and Wednesday 8:30 a.m. to 9:30 a.m. If you have any questions call (310)217-9552.

- Join Us as We Celebrate Older Americans Month – 2nd Annual Fun in the Senior Day, Thursday, May 12, 2022; 10:00 a.m. – 12:00 p.m. at City Hall Complex Lawn. Register by calling the Senior Bureau at (310)217-9552 or online at www.cityofgardena.org/events.
 - City of Gardena Candidate Forum, hosted by the Torrance League of Women Voters, on Thursday, May 12, 2022, in the Nakaoka Community Center. City Council Forum 6:30 p.m. – 7:30 p.m.; Treasurer Forum 7:45 p.m. – 8:45 p.m.
 - Gourmet Chef Fest & Show and Shine Car Exhibit at Rowley Park on Saturday, May 14, 2022; 10:00 a.m. – 2:00 p.m.
 - Save the Date! Healthy Pet Clinic, Sunday, May 15, 2022, 10:00 a.m.-1:00 p.m. at the Nakaoka Community Center, for questions please call (310)217-9537.
 - Free Youth Baseball & Softball Skills Clinics. Clinic registration begins Friday, May 6, 2022, at 8:00 a.m., www.cityofgardena.org/events; ages: 6-12. Baseball Clinic at Thornburg Park: Mondays & Wednesday: May 16, 18, 23, 25 at 6:00 p.m. - 7:30 p.m. Softball Clinic at Freeman Park: Tuesdays & Thursdays: May 17, 19, 24, 26 at 6:00 p.m. - 7:30 p.m. For more information call (310)217-9537.
 - Kids to Park Day – Join Us Saturday, May 21, 2022; 10:00 a.m. – 3:00 p.m. at Arthur Lee Johnson Park. For more information call (310)217-9537 or visit www.cityofgardena.org/events.
 - Gardena Youth in Government Day! The program's goal is simply to develop an awareness in youth about how their city functions and assists its citizens in the community.
 - "Gardena On The Go" Trip to the LA County Fair, Thursday, May 26, 2022. Departure 10:00 a.m., Estimated return 5:00 p.m. \$25 per person, purchase your ticket in the Senior Bureau Office or online www.cityofgardena.org/events to reserve your spot today!
 - City of Gardena is hosting a Summer UCLA Blood Drive on Thursday, June 2, 2022; 9:00 a.m. – 2 p.m. at Ruch Gym.
 - Bring It On The BLVD Downtown Street Fair, Saturday, June 4, 2022, 11:00 a.m. - 4:00 p.m. Join Us between Berendo Avenue to Vermont Avenue - Gardena Blvd. Save the Date! City of Gardena's Dodger Day, Friday, July 8, 2022. Game start time 7:10 p.m. Come enjoy a night of baseball followed by a firework show.
 - City of Gardena Jazz Festival, Sunday, August 28, 2022, at Rowley Park. Tickets Sales Begin Monday, May 2, 2022. To purchase tickets, visit gardenajazzfestival.com/tickets. Stay tuned for artist announcements on our social media pages!
 - Save the Date - Gardena 12th Annual Food, Wine & Brew; Saturday, September 24, 2022, 12:00 p.m. to 7:00 p.m. at the Gardena City Hall Complex.
3. Video - 2022 Budget Forum. Come and Join us at City Hall on Wednesday, June 1, 2022, from 6:00 p.m. to 8:00 p.m. City Manager Osorio encourages everybody to come out and participate in the budget process because that is first and foremost their right as a community member to get informed and ask questions.

Follow-up to Council Member Francis directive regarding reader boards at Mas Fukai and Rowley Park. Director of Public Works Allan Rigg provided the cost information to City Manager Osorio which was \$55,000.00 each reader board to be replace. Mayor Cerda thanked Allan Rigg for being a dedicated employee while on vacation and City Manager for working on the budget forum. She believes that the event is great and unique in the fact that our City is so transparent and sharing with the

community how money is spent in the City of Gardena, especially when you see so much nonsense on social media of people implying that we mismanage funds here in the City of Gardena. City Manager added that the budget will be discussed during the Finance Committee Meeting on Thursday and then again during the regular Council Meeting and then during the Budget Forum on June 1st, and we also have the transparency portal on our City website.

21. COUNCIL REMARKS

- 1) COUNCIL MEMBER FRANCIS – Since the last meeting, Council Member Francis attended the Mariachi and Maracas celebration. She thanked Chief Saffell and Tracy Saruwatari for the Drug Takeback event. Council Member Francis also complimented the Salsa Showdown event. She shared a few words in Spanish, shared May 10th is Mother's Day in Mexico and wished everyone a Happy Mother's Day. She then mentioned that May is Asian American Pacific Islander Month and shared it's a good opportunity to celebrate the contributions of our Asian Americans and mentioned City leaders. She named Congressman Norm Mineta as the first Asian American Transportation Secretary, who funded the Congressional Asian Pacific American Congressional Caucus in Washington D.C. Lastly, she mentioned that Asian hate has not gone away and urged everyone to make sure there's equity for everyone.
- 2) MAYOR PRO TEM TANAKA - Since the last meeting, he attended the Mariachi and Maracas event, and mentioned he is hoping the City could do the parade next year and have it go from Gardena Blvd to City Hall; he then thanked Recreation staff for the great event. He attended a memorial in Sacramento for Toshio Hirai; a great time to be with his Mom, Dad, Wife, Son, and Chris. Also attended a homeless task force with the COG, a ministerial lunch, an event in Downey for Kiwanis club students who received hundreds of thousands of dollars, the GTrans bus rodeo, and thanked Director Crespo and his staff for the event. He was also invited to South County labor breakfast. He shared Armando received an award, shared a few words about him, and recognized his accomplishments. Sat with Maxine Waters and Mike Feuer during the meeting. Also attended the COG's Steering Committee Board Meeting and COG's Board Meeting. Wished Happy Birthday to City Manager Osorio and GTrans Director Ernie Crespo. Lastly, asked that Norman Mineta's name be added to Remembrances.
- 3) COUNCIL MEMBER KASKANIAN - Since the last meeting, Council Member Kaskanian attended the bus rodeo and thanked staff for the great event. Also attended the Mariachis and Maracas event and thanked everyone who attended. Lastly, wished all Central America and Latin America a Happy Mother's Day, shared a few words in Spanish, and mentioned mothers can't be replaced.
- 4) MAYOR CERDA – Since the last meeting, she attended Gardena on the Go Cirque de Soleil and thanked Senior Citizens Bureau for organizing the event. Mayor Cerda also attended the Mariachi and Maracas event and thanked everyone involved; she mentioned that Anthony Dixon won the salsa contest; she thanked the Parks and Recreation Department and mentioned they are the best party planners. She attended the 44th Annual California Peace Officer Ceremony Candlelight Vigil and Memorial Ceremony in Sacramento where they honored Toshio Hirai, she thanked the honor guards Gonsalves, Dixon, and Searle, and the Police Department staff for making it happen. Also, attended the Sanitation Directors meeting, LAUSD superintendent 100 days of planning meeting with the superintendent was present via Zoom, GTrans picnic thanked Director Crespo and thanked the directors that participated in the dunk tank

Director Santin, Director Crespo, Khoi, and Director Beeman. Mayor Cerda shared she won the bus rodeo. Lastly attended the beautiful Bonsai exhibit and is so happy we are opening up so we can enjoy events such as these.

- 5) **COUNCIL MEMBER HENDERSON** - Council Member Henderson asked to support our first responders and would like to add bus operators to that slogan, he shared that he learned a lot during the GTrans bus rodeo event. Since the last meeting, he attended the SoCal Government meeting and met with leaders from different cities. Gardena was recognized for doing great things and thanked all staff for their hard work. He was also able to participate in a discussion regarding digital equity, and in a regional discussion regarding the vision for the future. Lastly, mentioned the SCAG conference was positive.

22. ANNOUNCEMENT(S)

Mayor Cerda announced:

1. Coffee with a Cop on May 24, 2022, at the Gardena Police Department in the west parking lot; from 9:00 a.m. to 11: a.m., at 1718 W. 162nd Street.

23. REMEMBRANCES

Johnny Brazzle, long-time Gardena resident since 1979; **Mrs. Mildred Williams**, long-time resident of Gardena, active member of the 2nd Time Around Club and Senior Citizens Commissioner for the City of Gardena from 2007 to 2015; **Mrs. Nancy Kim**, owner of the Gardena Cinema, she passed away last Sunday from battling Endometrial Cancer. The Kim family has owned the Gardena Cinema since 1976 and Nancy will be deeply missed by the Gardena community; **Mr. Norman Mineta**, who was a leader and represented the Asian American Community and helping to encourage all to make a difference.

24. ADJOURNMENT

At 9:01 p.m., Mayor Cerda adjourned the Gardena City Council Meeting to the Closed Session portion of the City Council Meeting at 7:00 p.m., and the Regular City Council Meeting at 7:30 p.m. on Tuesday, May 24, 2022.

MINA SEMENZA

City Clerk of the City of Gardena and
Ex-officio Clerk of the Council

APPROVED:

Tasha Cerda, Mayor

By: _____
Becky Romero, Deputy City Clerk

MINUTES
Special Closed Session Meeting
City of Gardena City Council
Thursday, May 19, 2022

In order to minimize the spread of the COVID 19 virus, Governor Newsom has signed Assembly Bill 361. Please be advised that the Council Chambers are closed to the public and that some, or all, of the Gardena City Council Members, may attend this meeting telephonically.

The Special Closed Session Meeting of the City Council of the City of Gardena, California, was called to order at 6:09 p.m. on Thursday, May 19, 2022, via Zoom and in the Council Chamber of City Hall, 1700 West 162nd Street, Gardena, California; Mayor Tasha Cerda presiding.

1. ROLL CALL

Present: Mayor Tasha Cerda; Mayor Pro Tem Rodney G. Tanaka; Council Member Mark E. Henderson; Council Member Art Kaskanian; Council Member Paulette C. Francis; Other City Officials and Employees present: City Attorney Carmen Vasquez; and City Clerk Mina Semenza.

At 6:10 p.m., the City Council recessed into Closed Session in the Management Information Center of the Council Chambers at City Hall, with the following in attendance: Mayor Tasha Cerda; Mayor Pro Tem Rodney G. Tanaka; Council Member Mark E. Henderson; Council Member Art Kaskanian; Council Member Paulette C. Francis; Other City Officials and Employees present: City Attorney Carmen Vasquez; and Attorney Scott Tiedemann.

2. PUBLIC COMMENT ON CLOSED SESSION - *None*

3. CLOSED SESSION

3.A PUBLIC EMPLOYEE PERFORMANCE EVALUATION
Government Code Section 54957
Title: City Manager

3.B PUBLIC EMPLOYEE DISCIPLINE/DISMISSAL/RELEASE
California Government Code Section 54957

4. CLOSED SESSION REPORT – *No reportable action was taken.*

5. ADJOURNMENT

At 7:12 p.m., Mayor Cerda adjourned the Gardena City Council Special Closed Session Meeting to the Closed Session portion of the City Council Meeting at 7:00 p.m., and the Regular City Council Meeting at 7:30 p.m. on Tuesday, May 24, 2022.

MINA SEMENZA
City Clerk of the City of Gardena and
Ex-officio Clerk of the Council

APPROVED:

Tasha Cerda, Mayor

By:_____
Becky Romero, Deputy City Clerk

MINUTES
Regular PEQC Meeting Notice and Agenda of the
Planning and Environmental Quality Commission
Tuesday, March 15, 2022

The Regular PEQC Meeting Notice and Agenda of the Planning and Environmental Quality Commission of the City of Gardena, California, was called to order at 7:00 PM on Tuesday, March 15, 2022, in the 1700 W. 162nd Street, Gardena, California.

PARTICIPATE DURING THE MEETING VIA ZOOM

- Join Zoom Meeting Via the Internet or Via Phone Conference:
<https://us02web.zoom.us/j/82339137670>
- Via Phone Conference Phone number: US +1 669 900 9128,
- Meeting ID: 823 3913 7670
Press *9 to Raise Hand and *6 to unmute when prompted.
- If you wish to speak on a specific agenda item during the meeting you, may use the "Raise your Hand" feature during the item you wish to speak on. For Non-Agenda Items you will be allowed to speak during Oral Communications. Members of the public wishing to address the Commission/Committee/Board will be given three (3) minutes to speak.

1. **CALL MEETING TO ORDER**

2. **ROLL CALL**

Present: Chair Stephen P Langley; Vice Chair Deryl Henderson;
Commissioner Jules Kanhan; Commissioner Kale Eaton.

Absent: Commissioner Steve Sherman

3. **APPROVAL OF MINUTES**

3.A FEBRUARY 15, 2022

A motion was made by Vice Chair Henderson and seconded by Chair Langley to approve the minutes of the meeting on February 15, 2022. The minutes were approved 4-0-1

Ayes:	Henderson, Langley, Kanhan, Eaton
Noes:	None
Absent:	Sherman

4. **ORAL COMMUNICATIONS**

Chair Langley invited anyone from the public to speak on any issues not on the agenda; however, there were no members of the public wishing to speak under oral communications.

Community Development Director, Greg Tsujiuchi, mentioned that Peter Wallin will be acting Assistant City Attorney, in lieu of Lisa Kranitz, at this meeting and introduced the new Planning Assistant, Kevin La to the commission.

5. **PUBLIC HEARING ITEMS**

5.A **Conditional Use Permit #1-22**

A request for a conditional use permit, per section 18.30.030.A of the Gardena Municipal Code, to allow the on-site sale and consumption of beer and wine to an existing restaurant located in the General Commercial (C-2) zone and direct staff to file a Notice of Exemption as an existing facilities project

APPLICANT: Maat Star Food Inc. (DBA 88 Hot Dog & Pocha)

LOCATION: 1610 W Redondo Beach Blvd Unit 3 (APN: 6105-006-034)

Senior Planner Amanda Acuna, presented the Staff Report and recommended that the Planning Commission open the public hearing, receive testimony from the public and adopt Resolution #6-22, approving Conditional Use Permit #1-22, subject to the attached Conditionals of Approval, and directing staff to file a notice of exemption.

Chair Langley opened the public hearing.

Chair Langley inquired about the review of the Police Department.

Ms. Acuna responded that she sends the application to the lieutenant for any criminal activity on site and in addition, the Alcoholic Beverage Control (ABC) will also do a criminal background for the license holder by the State's review. On a city level, the Police Department would review the general location and any criminal activity that happen in the area.

The applicant stated that the business owners are excited for this opportunity then said they had applied to obtain an ABC License earlier and is currently waiting on Planning Commission approval.

Commissioner Kanhan asked if there is a certain time frame the business will sell alcohol within their business hours of 9am to 2am and if Soju is now considered an alcohol.

The applicant stated that the timeframe will occur with between the hours of 9am to 1:30am and according to the State's Governor, soju is classified as alcohol in beer and wine.

Chair Langley closed the public hearing.

MOTION: It was moved by Vice Chair Henderson and seconded by Commissioner Kanhan to adopt Resolution No. PC 6-22 approving Conditional Use Permit #1-22, subject to the attached Conditionals of Approval, and directing staff to file a notice of exemption.

The motion passed by the following roll call vote:

Ayes: Henderson, Kanhan, Langley, Eaton

Noes: None

Absent: Sherman

5.B Conditional Use Permit #2-22

A request for a conditional use permit, per section 18.30.030.A of the Gardena Municipal Code, to allow the on-site sale and consumption of beer and wine to an existing restaurant located in the General Commercial (C-2) zone and direct staff to file a Notice of Exemption as an existing facilities project

APPLICANT: Nicole's Kitchen, Inc.

LOCATION: 1630 W Redondo Beach Blvd

Ms. Acuna, presented the Staff Report and recommended that the Planning Commission open the public hearing, receive testimony from the public and adopt Resolution #7-22, approving Conditional Use Permit #2-22, subject to the attached Conditionals of Approval, and directing staff to file a notice of exemption.

Chair Langley opened the public hearing.

Chair Langley inquired if the sensitive locations listed in the Staff Report was publicly noticed.

Ms. Acuna answered that since the sensitive locations are greater than the required 300' radius to be noticed from the property; they were not required to be noticed.

The applicant discussed more about their business and customers' request to consume alcohol during their meal.

Langley asked about the operating hours and view of expanding past 9am to 9pm.

The applicant stated that they would like to extend hours if they can finically afford to and if the community and/or patrons would support the idea.

Chair Langley closed the public hearing.

MOTION: It was moved by Commissioner Eaton and seconded by Vice Chair Henderson to adopt Resolution No. PC 7-22 approving Conditional Use Permit #2-22, subject to the attached Conditionals of Approval, and directing staff to file a notice of exemption.

The motion passed by the following roll call vote:

Ayes: Eaton, Henderson, Langley, Kanhan

Noes: None

Absent: Sherman

6. **COMMUNITY DEVELOPMENT DIRECTOR'S REPORT**

Mr. Tsujiuchi mentioned that Commissioner Kanhan and Ms. Acuna will be attending the Planning Commissioner's Academy in San Ramon and the next fiscal year's budget will allow for additional trainings for the commissioners.

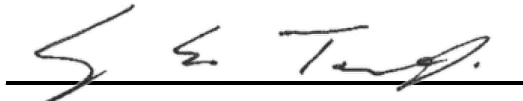
7. **PLANNING & ENVIRONMENTAL QUALITY COMMISSIONERS' REPORTS**

No report to follow.

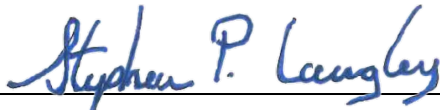
8. **ADJOURNMENT**

Chair Langley adjourned the meeting at 7:42 P.M.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Greg Tsujiuchi", written over a horizontal line.

GREG TSUJIUCHI, SECRETARY
Planning and Environmental Quality Commission

A handwritten signature in blue ink, appearing to read "Stephen P. Langley", written over a horizontal line.

STEPHEN LANGLEY, CHAIR
Planning and Environmental Quality Commission

MEMORANDUM


TO: Honorable Mayor and City Council
FROM: City Treasurer's Office
DATE: May 19, 2022
SUBJECT: WARRANT REGISTER
PAYROLL REGISTER

May 24, 2022 TOTAL WARRANTS ISSUED: \$1,131,692.17

Wire Transfer: 12166-12167
Prepay: 167396-167398
Check Numbers: 167399-167561
Checks Voided:

Total Pages of Register: 18

May 20, 2022 TOTAL PAYROLL ISSUED: \$2,024,763.04



for J. Ingrid Tsukiyama, City Treasurer

cc: City Clerk

vchlist
05/19/2022 12:16:47PM

Voucher List
CITY OF GARDENA

Page: 1

Bank code : usb

Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
12166	5/9/2022	111894 HEALTHNOW ADMINISTRATIVE, SERVICES	U4726		HEALTH INSURANCE CLAIMS	94,840.96
					Total :	94,840.96
12167	5/9/2022	104058 ADMINSURE INC.	050922		WORKERS' COMP CLAIMS ADMINISTR/	55,643.76
					Total :	55,643.76
167396	5/10/2022	111902 BPR CONSULTING GROUP LLC	78	032-00098	CONSULTING SERVICES - JANUARY 20	79,580.31
					Total :	79,580.31
167397	5/10/2022	110628 EVERBRIDGE, INC.	M69244	035-01150	MULTI-JURISDICTIONAL NOTIFICATION	23,325.91
					Total :	23,325.91
167398	5/16/2022	107510 ESCALANTE, WENDY E.	FY 2021-22 ADJ		CHILD CARE PROVIDER	3,870.00
					Total :	3,870.00
167399	5/24/2022	111853 ACCESS	9387763		PD SHREDDING SERVICES	100.00
					Total :	100.00
167400	5/24/2022	104058 ADMINSURE INC.	15096	023-01345	WORKERS' COMP CLAIMS ADMINISTR/	12,030.00
					Total :	12,030.00
167401	5/24/2022	101748 AFTERMARKET PARTS COMPANY LLC, THE	82685494	037-10048	GTRANS AUTO PARTS	1,784.26
			82686867	037-10048	GTRANS AUTO PARTS	80.41
					Total :	1,864.67
167402	5/24/2022	111697 ALLDATA LLC	INVC01429323		PW AUTOMOTIVE YEARLY SUBSCRIPT	1,500.00
					Total :	1,500.00
167403	5/24/2022	101628 AQUA-FLO SUPPLY	SI1913390		PARK MAINT SUPPLIES	136.38
			SI1913391		PARK MAINT SUPPLIES	17.04
			SI1919539		PARK MAINT SUPPLIES	27.67
			SI909691		PARK MAINT SUPPLIES	68.46
					Total :	249.55
167404	5/24/2022	108625 ARAD OIL INC.	APRIL 2022		CAR WASH	210.00
					Total :	210.00

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Voucher List
CITY OF GARDENA

Bank code : usb

Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167405	5/24/2022	105293 ARC DOCUMENT SOLUTIONS, LLC	11199368 11214074		REPROGRAPHIC SERVICES - JN978 AC REPROGRAPHIC SERVICES - JN978 AC Total :	286.26 29.95 316.21
167406	5/24/2022	106965 ASSAABLOY ENTRANCE, SYSTEMS US INC.	SEI/1514203		CITY HALL LOBBY ENTRANCE DOOR IN Total :	449.00 449.00
167407	5/24/2022	104687 AT&T	18103663 18139437		TELEPHONE TELEPHONE Total :	395.55 851.40 1,246.95
167408	5/24/2022	616090 AT&T	3103232408 05/01/22		TELEPHONE Total :	2,436.26 2,436.26
167409	5/24/2022	111170 AT&T FIRSTNET	287290885074X5102022 287293416290X5102022 287303490376X5102022		CITYWIDE CELL PHONE ACCT #287290 PD CELL PHONE ACCT #287293416290 BUS CELL PHONE ACCT #28730349037 Total :	2,001.74 1,816.26 468.19 4,286.19
167410	5/24/2022	100964 AT&T MOBILITY	287275680401X5012022 835577878X05012022		PD CELL PHONE ACCT #287275680401 PD CELL PHONE ACCT #835577878 Total :	140.07 645.49 785.56
167411	5/24/2022	110686 AZTECH ELEVATOR COMPANY	AZ17204 AZ17205 AZ17206 AZ17207	024-00757 024-00757 024-00757 024-00757	ELEVATOR MAINTENANCE - NCC ELEVATOR MAINTENANCE - PW ELEVATOR MAINTENANCE - CITY HALL ELEVATOR MAINTENANCE - NCC Total :	285.00 285.00 100.00 100.00 770.00
167412	5/24/2022	110190 BASNET FAMILY CHILD CARE	APRIL 2022		CHILD CARE PROVIDER Total :	10,426.00 10,426.00
167413	5/24/2022	102054 BAVCO	152948		(19) BACKFLOW VALVE INSPECTIONS Total :	855.00 855.00
167414	5/24/2022	102035 BD WHITE TOP SOIL CO., INC.	86538 86811 86826		PARK MAINT SUPPLIES STREET MAINT SUPPLIES PARK MAINT SUPPLIES	113.25 76.07 54.57

Voucher List
CITY OF GARDENA

Bank code : usb

Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167414	5/24/2022	102035 102035 BD WHITE TOP SOIL CO., INC.	(Continued)			Total : 243.89
167415	5/24/2022	102135 BEHREND, KENT	099	023-01346	IT NETWORK SUPPORT	3,400.00
					Total :	3,400.00
167416	5/24/2022	107747 BENGAR PRODUCTIONS	6958		EMBROIDERY - GTRANS LOGO ON TRI	1,980.00
					Total :	1,980.00
167417	5/24/2022	102331 BLUE DIAMOND MATERIALS	2652384		STREET MAINT SUPPLIES	459.13
					Total :	459.13
167418	5/24/2022	111875 BOAARCHITECTURE	22-2960-1	024-00806	FEASIBILITY STUDY - ROSECRANS CO	14,800.00
					Total :	14,800.00
167419	5/24/2022	108715 BOBBS FAMILY CHILDCARE	APRIL 2022		CHILD CARE PROVIDER	4,395.00
					Total :	4,395.00
167420	5/24/2022	108892 CAL WEST MOBILE RV SERVICES	2676		SERVICE CALL - SERVICE GENERATOR	484.71
					Total :	484.71
167421	5/24/2022	112066 CANCEL, REINALDO	050922		REFUND DISBURSEMENT-PERMIT# 501	7,500.00
					Total :	7,500.00
167422	5/24/2022	110538 CANNON COMPANY	79066	024-00640	ARTESIA BLVD. STREET IMPROVEMEN	310.25
					Total :	310.25
167423	5/24/2022	103489 CF UNITED LLC	040122-043022		CAR WASH - APRIL 2022	60.00
					Total :	60.00
167424	5/24/2022	111612 CHARTER COMMUNICATION	PERMIT #17062		PERMIT DEPOSIT REFUND - 17400 S W	2,000.00
					Total :	2,000.00
167425	5/24/2022	103127 CHILD 2 CHILD CONNECTION, FAMILY DAY C/	APRIL 2022		CHILD CARE PROVIDER	3,202.00
					Total :	3,202.00
167426	5/24/2022	308112 CITY OF HAWTHORNE	2021	035-01133	ANNUAL MAINTENANCE FOR TIBURON	74,197.94
					Total :	74,197.94
167427	5/24/2022	110985 CIVICPLUS, LLC	225812	034-00518	RECREATION MGMT SOFTWARE LICEN	2,499.43

Voucher List
CITY OF GARDENA

Bank code : usb

Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167427	5/24/2022	110985 110985 CIVICPLUS, LLC	(Continued)		Total :	2,499.43
167428	5/24/2022	110215 CLEVER DEVICES LTD	PI00003934	037-09906	PURCHASE AND INSTALLATION OF GR	12,613.15
					Total :	12,613.15
167429	5/24/2022	104338 CODE PUBLISHING, INC.	GC00116717		MUNICIPAL CODE - ANNUAL WEB FEES	480.00
					Total :	480.00
167430	5/24/2022	102388 COPYLAND, INC.	78888	037-10047	GTRANS - 24 X 36" FULL COLOR FOAM	656.34
					Total :	656.34
167431	5/24/2022	112069 CORNEJO, MARICELA Y.	50696		REFUND - APPLICANT BADGE DID NOT	125.00
					Total :	125.00
167432	5/24/2022	109913 COSTAR REALTY INFORMATION INC.	116051700		COSTAR SUITE - MAY 2022	1,060.66
					Total :	1,060.66
167433	5/24/2022	103461 CPS	INV12796		TESTING MATERIAL	922.00
					Total :	922.00
167434	5/24/2022	109005 CRESPO, ERNIE	04/14-04/15		CALTIP SPRING BOARD MEETING - PEI	99.92
					Total :	99.92
167435	5/24/2022	103353 CRM COMPANY, LLC.	LA20197 LA20198		SCRAP TIRE DISPOSAL FEE SCRAP TIRE DISPOSAL FEE	69.50 69.50
					Total :	139.00
167436	5/24/2022	110319 CWE DIRECTOR	22190	024-00766	MS4 & NPDES - MONITORING & COMPI	17,363.53
					Total :	17,363.53
167437	5/24/2022	107082 CXTEC INC.	7139689 7140401		CISCO 2620 NETWORK ROUTER RAPIDCARE HARDWARE & TAC SUPPC	350.47 155.00
					Total :	505.47
167438	5/24/2022	111874 DAVID VOLZ DESIGN LANDSCAPE, ARCHITEC	422250	024-00790	CITYWIDE WAYFINDING PROJECT, JN5	20,963.60
					Total :	20,963.60
167439	5/24/2022	111377 DE NOVO PLANNING GROUP	3360	032-00092	PROFESSIONAL SERVICES - UHAUL RI	7,276.25

Voucher List
CITY OF GARDENA

Bank code : usb

Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167439	5/24/2022	111377 111377 DE NOVO PLANNING GROUP	(Continued)		Total :	7,276.25
167440	5/24/2022	312558 DEPARTMENT OF ANIMAL CARE, & CONTROL	FEBRUARY 2022		MONTHLY HOUSING SERVICES - FEBR	1,720.40
			MARCH 2022		MONTHLY HOUSING SERVICES - MARC	109.60
					Total :	1,830.00
167441	5/24/2022	104343 DISCOUNT SCHOOL SUPPLY	40000347230		FCC PROGRAM SUPPLIES	-13.57
			W81669990101	331-00057	FCC PROGRAM SUPPLIES	155.24
					Total :	141.67
167442	5/24/2022	112067 DUQUE, BERNADETTE B.	49072		REFUND - RENEWAL OVERPAYMENT	127.75
					Total :	127.75
167443	5/24/2022	111953 ECONOMICO ANIMAL HOSPITAL	61601		VETERINARY SERVICES - ANIMAL CON	200.00
			63062		VETERINARY SERVICES - ANIMAL CON	75.00
			64599		VETERINARY SERVICES - ANIMAL CON	75.00
					Total :	350.00
167444	5/24/2022	111868 EDS FENCING	3527		MAS FUKAI PARK CHAIN LINK REPAIR	1,270.00
					Total :	1,270.00
167445	5/24/2022	107353 EMERGENCY RESPONSE CRIME SCENE, CLE T2022-249			SANITIZE & CLEAN-UP POLICE VEHICL	325.00
					Total :	325.00
167446	5/24/2022	105418 EMPIRE CLEANING SUPPLY	S5211211	034-00496	CUSTODIAL SUPPLIES	1,197.26
			S5211242		PARK MAINT SUPPLIES	307.21
					Total :	1,504.47
167447	5/24/2022	107690 ENLIGHTENMENT CHILD, DEVELOPMENT CEI APRIL 2022			CHILD CARE PROVIDER	9,550.00
					Total :	9,550.00
167448	5/24/2022	105778 ENNIS PAINT, INC.	428263		STREET MAINT SUPPLIES	1,088.73
					Total :	1,088.73
167449	5/24/2022	105392 ENTENMANN-ROVIN COMPANY	0165593		PD UNIFORM SUPPLIES	1,331.05
					Total :	1,331.05
167450	5/24/2022	106459 ENTERPRISE FM TRUST	FBN4461205	023-01347	ENTERPRISE LEASE - MAY 2022 - PD	10,223.64

Bank code : usb

Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167450	5/24/2022	106459 ENTERPRISE FM TRUST	(Continued) FBN4462336	023-01347	ENTERPRISE LEASE - MAY 2022	4,893.01
Total :						15,116.65
167451	5/24/2022	107510 ESCALANTE, WENDY E.	APRIL 2022		CHILD CARE PROVIDER	6,003.00
Total :						6,003.00
167452	5/24/2022	110269 EUTIMIO, ESAU	051022		REFUND - LOAN #001 REFINANCED ~	39.22
Total :						39.22
167453	5/24/2022	111928 EVANS, PEGGY	APRIL 2022		VOLUNTEER DRIVER	14.00
Total :						14.00
167454	5/24/2022	106129 FEDEX	7-747-03524		SHIPPING SERVICES	142.85
Total :						142.85
167455	5/24/2022	103083 FIRST ADVANTAGE LNS OCC HEALTH, SOLUT	2511472202		DRUG TEST/ADMIN FEE	21.38
Total :						21.38
167456	5/24/2022	103134 FRANCO'S UPHOLSTERY &, ACCESSORIES	15130		REUPHOLSTER HEADLINER	275.00
Total :						275.00
167457	5/24/2022	112566 GALLS, LLC	BC1594027		PD UNIFORM SUPPLIES	473.03
Total :						473.03
167458	5/24/2022	107724 GARCIA, CLAUDIA CRISTINA	APRIL 2022		CHILD CARE PROVIDER	10,730.00
Total :						10,730.00
167459	5/24/2022	207133 GARCIA, NANCY C.	APRIL 2022		CHILD CARE PROVIDER	10,272.00
Total :						10,272.00
167460	5/24/2022	107030 GARDENA AUTO PARTS	152314		PW AUTO PARTS	9.47
			152933		PW AUTO PARTS	49.55
			153256		PW AUTO PARTS	334.96
			153257		PW AUTO PARTS	9.53
			153702		PW AUTO PARTS	18.04
			153789		PW AUTO PARTS	35.27

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167460	5/24/2022	107030 107030 GARDENA AUTO PARTS	(Continued)			Total : 456.82
167461	5/24/2022	100942 GARDENA ELKS LODGE 1919	051722		COMMUNITY PROMOTION~	50.00
					Total :	50.00
167462	5/24/2022	619005 GAS COMPANY, THE	050622		CNG FUEL	1,266.03
					Total :	1,266.03
167463	5/24/2022	102486 GOODPASTER, PATRICK	GEPCO 2022		GEPCO LOAN	2,000.00
					Total :	2,000.00
167464	5/24/2022	110435 GUERRERO, ANGELICA	APRIL 2022		CHILD CARE PROVIDER	10,743.00
					Total :	10,743.00
167465	5/24/2022	104017 HALO BRANDED SOLUTIONS INC.	2022000058984		PW STREET MAINT PROMOTIONAL ITE	362.14
					Total :	362.14
167466	5/24/2022	108607 HENDERSON-BATISTE, TANEKA	APRIL 2022		CHILD CARE PROVIDER	5,163.00
					Total :	5,163.00
167467	5/24/2022	111549 HF & H CONSULTANTS, LLC	9719133		CONSULTING SERVICES - SOLID WAS1	5,942.50
					Total :	5,942.50
167468	5/24/2022	106928 HOLLAND, ERIC	051022		REFUND - LOAN #001 PAID OFF ~	87.54
					Total :	87.54
167469	5/24/2022	108434 HOME DEPOT CREDIT SERVICES	0274542 1521427 3310874 5342752 7523232		PARK MAINT SUPPLIES BLDG MAINT SUPPLIES GTRANS MAINT SUPPLIES BLDG MAINT SUPPLIES BLDG MAINT SUPPLIES	880.90 30.40 3.24 205.42 106.20
					Total :	1,226.16
167470	5/24/2022	108430 HOME PIPE & SUPPLY	F37464 F37526		BLDG MAINT SUPPLIES BLDG MAINT SUPPLIES	301.48 12.66
					Total :	314.14
167471	5/24/2022	111657 INDEPENDENT ROOFING, CONSULTANTS	0078879	024-00749	CH ROOF REHABILITATION PROJECT J	4,600.00

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167471	5/24/2022	111657 111657 INDEPENDENT ROOFING, CONSULTANT	(Continued)		Total :	4,600.00
167472	5/24/2022	111593 INTER-CON SECURITY SYSTEMS INC	BD0081397	037-10095	GTRANS SECURITY SERVICES - APRIL	6,954.74
					Total :	6,954.74
167473	5/24/2022	108555 JALISCO TIRE & AUTO REPAIR	032221		(1) FLATS REPAIR	10.00
			042822		(4) BALANCE	80.00
			050322		(4) BALANCE	80.00
			051122		(1) FLATS REPAIR	10.00
					Total :	180.00
167474	5/24/2022	105226 JEKAL FAMILY CHILD CARE	APRIL 2022		CHILD CARE PROVIDER	8,970.00
					Total :	8,970.00
167475	5/24/2022	110456 KHAIRZADA FAMILY CHILD CARE	APRIL 2022		CHILD CARE PROVIDER	3,942.00
					Total :	3,942.00
167476	5/24/2022	111045 KJ SERVICES	2417		USED OIL PROGRAM EXPENSE - APRIL	85.00
					Total :	85.00
167477	5/24/2022	110848 KREUZER CONSULTING GROUP	22-052	024-00616	WESTERN AVENUE STREET IMPROVEI	600.00
					Total :	600.00
167478	5/24/2022	110690 KWAK, KEVIN	050222		MGMT ANNUAL HEALTH BENEFIT	500.00
					Total :	500.00
167479	5/24/2022	109939 LA UNIFORMS & TAILORING	12227		PD UNIFORM SUPPLIES	187.31
			12320		PD UNIFORM SUPPLIES	104.68
			12327		PD UNIFORM SUPPLIES	410.85
					Total :	702.84
167480	5/24/2022	112015 LACERDA, DALVANICE	APRIL 2022		CHILD CARE PROVIDER	11,346.00
					Total :	11,346.00
167481	5/24/2022	112014 LAKESHORE LEARNING MATERIALS	284809012022	331-00058	FCC PROGRAM SUPPLIES	476.21
			837901042622	331-00058	FCC PROGRAM SUPPLIES	130.05
					Total :	606.26

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167482	5/24/2022	110777 LEARN N PLAY FAMILY DAYCARE	APRIL 2022		CHILD CARE PROVIDER	3,402.00
					Total :	3,402.00
167483	5/24/2022	108237 LEO WEB PROTECT	3778		POLICE PRIVACY SERVICE SUBSCRIP	999.99
					Total :	999.99
167484	5/24/2022	102376 LEXISNEXIS RISK SOLUTIONS	1328345-20220430		MONTHLY SUBSCRIPTION FEE	1,826.72
					Total :	1,826.72
167485	5/24/2022	102233 LITTLE PEOPLE DAY CARE	APRIL 2022		CHILD CARE PROVIDER	6,742.00
					Total :	6,742.00
167486	5/24/2022	109517 LOAD N' GO BUILDING MATERIALS	22675 22745		STREET MAINT SUPPLIES STREET MAINT SUPPLIES	57.29 149.42
					Total :	206.71
167487	5/24/2022	109563 LUCKY LADY CASINO	0850000167		ECONOMIC ASSISTANCE - MARCH 202	37,231.65
					Total :	37,231.65
167488	5/24/2022	112607 LUMINATOR TECHNOLOGY GROUP INC	590868	037-10092	BUS SHOP SUPPLIES	52,267.53
					Total :	52,267.53
167489	5/24/2022	113036 MANERI SIGN CO., INC.	10011903 40011971		SIGNS - 18 X 24 "NO PARKING STREET SIGNS- 12 X 18 "NO STOPPING ANY TIM	919.26 513.21
					Total :	1,432.47
167490	5/24/2022	110530 MANHATTAN STITCHING COMPANY, INC	83848		PW PROMOTIONAL ITEMS	562.37
					Total :	562.37
167491	5/24/2022	110306 MARIPOSA LANDSCAPES, INC	97570	024-00760	MEDIAN LANDSCAPE MAINTENANCE	7,242.50
					Total :	7,242.50
167492	5/24/2022	107644 MARTINEZ, CHERYL NAOMI	APRIL 2022		CHILD CARE PROVIDER	10,631.00
					Total :	10,631.00
167493	5/24/2022	104773 MARTINEZ, KAMBY	APRIL 2022		CHILD CARE PROVIDER	10,094.00
					Total :	10,094.00

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167494	5/24/2022	104106 MCCAIN, INC.	INV0265778	024-00770	SIGNS/SIGNALS SUPPLIES	13,997.39
			INV0265779	024-00770	SIGNS/SIGNALS SUPPLIES	13,997.39
Total :						27,994.78
167495	5/24/2022	111604 MICRO ELECTRONICS, INC	11871781		COMPUTER REPLACEMENT PARTS	883.52
			11871783		COMPUTER REPLACEMENT PARTS	-646.49
			11871784		COMPUTER REPLACEMENT PARTS	716.48
Total :						953.51
167496	5/24/2022	113605 MUTUAL LIQUID GAS & EQUIPMENT, CO., INC	22401		SERVICE AGREEMENT PLAN	135.00
			593846		PROPANE GAS	288.18
			596604		PROPANE GAS	132.82
Total :						556.00
167497	5/24/2022	122360 NISEI VFW POST 1961	051722		COMMUNITY PROMOTION~	295.00
Total :						295.00
167498	5/24/2022	110575 OCCUPATIONAL HEALTH CENTERS, OF CALIF	75142290		RANDOM TEST & BAT	209.00
			75222670		PHYSICAL RECERTIFICATION	1,011.50
Total :						1,220.50
167499	5/24/2022	115168 OFFICE DEPOT	234698732002		CM OFFICE SUPPLIES	8.08
			236126735		BUS OFFICE SUPPLIES	62.35
			236592181		PD OFFICE SUPPLIES	90.97
			236595327		PD OFFICE SUPPLIES	209.70
			236688751		PD OFFICE SUPPLIES	228.77
			237080743		BUS OFFICE SUPPLIES	262.33
			237527000		BUS OFFICE SUPPLIES	113.09
			238006989		REC OFFICE SUPPLIES	123.99
			238019814		REC OFFICE SUPPLIES	72.41
			238125437		CM OFFICE SUPPLIES	41.87
			238135434		CM OFFICE SUPPLIES	18.93
			239027887		FCC OFFICE SUPPLIES	38.14
			239030406		FCC OFFICE SUPPLIES	49.59
			239339536		BUS OFFICE SUPPLIES	23.97
			239339849		BUS OFFICE SUPPLIES	81.56
			240426011		BUS OFFICE SUPPLIES	144.87

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167499	5/24/2022	115168 OFFICE DEPOT	(Continued)			
			240571537		HR OFFICE SUPPLIES	64.66
			240580887		HR OFFICE SUPPLIES	66.14
			241409960		FINANCE OFFICE SUPPLIES	159.46
			241410234		FINANCE OFFICE SUPPLIES	285.03
			241803584		CM OFFICE SUPPLIES	9.69
			241805204		CM OFFICE SUPPLIES	48.50
			241805206		CM OFFICE SUPPLIES	36.37
			241805207		CM OFFICE SUPPLIES	35.11
					Total :	2,275.58
167500	5/24/2022	108921 OMEGA POLYGRAPH	01856	035-01146	PRE-EMPLOYMENT POLYGRAPH EXAM	2,925.00
					Total :	2,925.00
167501	5/24/2022	111358 O'REILLY AUTO PARTS	117580		GTRANS AUTO PARTS	137.80
			117724		GTRANS AUTO PARTS	-10.00
			147291		PW AUTO PARTS	-29.77
			198855		PW AUTO PARTS	175.43
			218409		GTRANS AUTO PARTS	-61.78
			219381		PW AUTO PARTS	72.14
			220038		PW AUTO PARTS	76.60
			220089		PW AUTO PARTS	452.59
					Total :	813.01
167502	5/24/2022	109890 OWUSU FAMILY CHILD CARE	APRIL 2022		CHILD CARE PROVIDER	11,752.00
					Total :	11,752.00
167503	5/24/2022	111954 PAN PACIFIC ENVIRONMENTAL GRP	22-1035	037-10114	STORMWATER DRAIN CLEANING SER\	3,500.00
					Total :	3,500.00
167504	5/24/2022	110403 PENN RECORDS MANAGEMENT	0129580		OFF-SITE STORAGE SERVICES - APRIL	58.00
					Total :	58.00
167505	5/24/2022	307101 PETTY CASH FUND	03/28-05/05/22		REPLENISH PETTY CASH	475.22
					Total :	475.22
167506	5/24/2022	108600 PHOENIX GROUP INFORMATION, SYSTEMS	0320221211	035-01103	PARKING CONTRACT SERVICES - MAR	15.06

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167506	5/24/2022	108600 108600 PHOENIX GROUP INFORMATION, SYSTE (Continued)			Total :	15.06
167507	5/24/2022	105574 PINNACLE PETROLEUM, INC.	0277169	037-10038	87 OCTANE REGULAR UNLEADED CAR	42,799.69
			0277170	037-10038	87 OCTANE REGULAR UNLEADED CAR	42,868.16
					Total :	85,667.85
167508	5/24/2022	116225 PLUMBERS DEPOT, INC.	PD-50989		SEWER PROGRAM SUPPLIES	74.44
					Total :	74.44
167509	5/24/2022	111883 PROJECT PARTNERS, INC.	10603	024-00783	PROJECT MANAGEMENT SERVICES	11,550.00
					Total :	11,550.00
167510	5/24/2022	102677 PROVIDENCE HEALTH & SERVICES	1010125 04/06/22	035-01147	SART EXAMS	1,020.00
			600000283 05/05/22		PRE-EMPLOYMENT PHYSICAL EXAMS	120.00
					Total :	1,140.00
167511	5/24/2022	106092 PRUDENTIAL OVERALL SUPPLY	42725908		UNIFORM & SUPPLY RENTAL	304.48
			42726327	034-00508	CUSTODIAL SUPPLIES	1,754.16
			42726328		UNIFORM & SUPPLY RENTAL	149.89
			42726329		UNIFORM & SUPPLY RENTAL	45.16
			42726330		UNIFORM & SUPPLY RENTAL	50.10
					Total :	2,303.79
167512	5/24/2022	100147 RCI IMAGE SYSTEMS	76984		MICROFICHE SCANNING - 1730 W 1391	72.77
					Total :	72.77
167513	5/24/2022	103072 REACH	0522887		EAP SERVICES/REACHLINE NEWSLET	902.00
					Total :	902.00
167514	5/24/2022	717819 REDDY, KIMBERLY R.	JAN-MAY 2022		MSW FIELD SUPERVISION	1,393.58
					Total :	1,393.58
167515	5/24/2022	100836 RESOURCE BUILDING MATERIALS	16714495		STREET MAINT SUPPLIES	140.90
			3350312		STREET MAINT SUPPLIES	5.87
			3351089		STREET MAINT SUPPLIES	140.90
					Total :	287.67
167516	5/24/2022	118476 RICOH USA, INC.	9029980253		RICOH COPIER LEASE & USAGE CHAR	2,343.82

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167516	5/24/2022	118476 RICOH USA, INC.	(Continued)			
			9029980258		RICOH MPC3503 COPIER LEASE - GTR	182.17
			9029980437		RICOH DD6650P COPIER LEASE - PRIN	556.24
			9029980439		RICOH MPC3503 COPIER LEASE - ADM	191.65
			9029980682		RICOH MPC3503 COPIER LEASE - SR. I	185.98
			9029980789		RICOH MPC3503 COPIER LEASE - FCC	209.22
			9029980853		RICOH PRO8100SE COPIER LEASE - PI	380.97
			9029980963		RICOH MPC3503 COPIER LEASE - HS~	144.89
					Total :	4,194.94
167517	5/24/2022	107146 ROADLINE PRODUCTS INC. U.S.A.	17476		PD PROGRAM SUPPLIES	898.46
					Total :	898.46
167518	5/24/2022	110205 ROSS & BARUZZINI, INC.	45769	037-09885	CONSULTING SERVICES FOR SCHEDU	4,800.00
					Total :	4,800.00
167519	5/24/2022	119126 S.B.R.P.C.A.	04172	023-01326	Q3 FY 2022 - PD VEHICLE BUILD OUT	58,912.06
					Total :	58,912.06
167520	5/24/2022	119126 S.B.R.P.C.A.	04146		PD AUTO PARTS	494.00
			04147		PD AUTO PARTS	191.17
			04148		PD AUTO PARTS	1,534.68
			04149		PD AUTO PARTS	1,708.88
			04150		PD AUTO PARTS	1,708.88
			04151		PD AUTO PARTS	191.17
			04152		PD AUTO PARTS	191.17
			04153		PD AUTO PARTS	166.48
			04154		PD AUTO PARTS	564.68
					Total :	6,751.11
167521	5/24/2022	119022 SAFE MART OF SOUTHERN, CALIFORNIA, INC	93297		BLDG MAINT SUPPLIES	71.66
					Total :	71.66
167522	5/24/2022	119016 SAM'S CLUB	3872		CITY CLERKS PROGRAM SUPPLIES	67.84
			7396		PW'S WEEK EVENT SUPPLIES	120.15
			8445		FCC PROGRAM SUPPLIES	89.97
					Total :	277.96

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167523	5/24/2022	105934 SANTIN, STEPHANY	050422 051122		EDUCATIONAL REIMBURSEMENT MGMT ANNUAL HEALTH BENEFIT	750.00 447.00 Total : 1,197.00
167524	5/24/2022	109609 SEA COAST DESIGN GROUP	24978		BUS OFFICE TOOLS & SUPPLIES	623.46 Total : 623.46
167525	5/24/2022	107006 SHAMROCK COMPANIES	2582858 2583552		BLDG MAINT SUPPLIES STREET MAINT SUPPLIES	289.08 171.66 Total : 460.74
167526	5/24/2022	106050 SHEHATA, AMY	APRIL 2022		CHILD CARE PROVIDER	8,644.00 Total : 8,644.00
167527	5/24/2022	119233 SHERWIN-WILLIAMS CO.	3858-0 7020-0		STREET MAINT SUPPLIES STREET MAINT SUPPLIES	243.88 292.32 Total : 536.20
167528	5/24/2022	109918 SHIGE'S FOREIGN CAR SERVICE, INC.	8091072 8091130 8091150 8091182	035-01134 035-01134 035-01134 035-01134	2016 FORD INTRCPTR #1488058 SERVI 2016 FORD INTRCPTR #1488055 SERVI 2004 FORD F-350 #1105666 SERVICE & 2018 FORD INTRCPTR #1554674 SERVI	646.95 102.25 553.29 917.14 Total : 2,219.63
167529	5/24/2022	101649 SILVIA ESPINOZA FAMILY CHILD, CARE	APRIL 2022		CHILD CARE PROVIDER	6,597.00 Total : 6,597.00
167530	5/24/2022	104238 SIMONELL, MARY	GEPCO 2022		GEPCO LOAN	2,000.00 Total : 2,000.00
167531	5/24/2022	109445 SMARTSIGN	MPP-195199	035-01148	PARKING HANG TAGS	6,419.64 Total : 6,419.64
167532	5/24/2022	109531 SMILLIN, MAGE	APRIL 2022		CHILD CARE PROVIDER	8,573.00 Total : 8,573.00
167533	5/24/2022	119375 SOUTH COAST AIR QUALITY, MANAGEMENT I	3986251		CAAIR TOXICS "HOT SPOTS" PROGRA	143.88

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167533	5/24/2022	119375 119375 SOUTH COAST AIR QUALITY, MANAGEM	(Continued)		Total :	143.88
167534	5/24/2022	111778 SPCALA	202201	032-00091	ANIMAL SHELTER SERVICES - JANUAR	5,333.75
			2022-0228	032-00091	ANIMAL SHELTER SERVICES	9,143.75
			2022-0331	032-00091	ANIMAL SHELTER SERVICES	9,143.75
					Total :	23,621.25
167535	5/24/2022	104126 SPECTRUM SOLUTIONS	0027122051122		CABLE & BACKUP INTERNET SERVICE	4,056.57
					Total :	4,056.57
167536	5/24/2022	119594 STANLEY PEST CONTROL	COG 0422		PEST CONTROL SERVICE - 1670 W 162	654.00
			COG 0422-1		PEST CONTROL SERVICE - 2320 W 149	117.00
					Total :	771.00
167537	5/24/2022	109892 STANTEC CONSULTING SERVICES	1919400	037-09851	DESIGN CONSULTING SERVICES - CNC	4,183.20
			1919773	037-10002	GTRANS DISPATCH AREA MODIFICAT	2,209.50
					Total :	6,392.70
167538	5/24/2022	111988 STENO AGENCY, INC	221481		LEGAL SUPPORT SERVICES	1,100.15
			242800		LEGAL SUPPORT SERVICES	972.90
					Total :	2,073.05
167539	5/24/2022	100609 TANK SPECIALISTS OF CALIFORNIA	31455		CERTIFIED DESIGNATED OPERATOR S	189.75
			31493		CERTIFIED DESIGNATED OPERATOR S	189.75
			31525		PROFESSIONAL SERVICES - CERS SUI	750.00
			31530		SERVICE CALL- OVERFILL PREVENTIO	1,635.00
			31533		SERVICE CALL- ADJUSTED LEVELS OF	216.00
			31537		SERVICE CALL- REPLACE BREAKAWAY	320.00
			31551		SERVICE CALL- RECONNECTED PROB	320.00
					Total :	3,620.50
167540	5/24/2022	110877 TAYLORING MINDS FAMILY CHILD, CARE	APRIL 2022		CHILD CARE PROVIDER	2,975.00
					Total :	2,975.00
167541	5/24/2022	120404 TOMMY T'S	4237		BUS UNIFORM SUPPLIES	1,357.80
					Total :	1,357.80
167542	5/24/2022	111737 TORRANCE AUTO REPAIR	0173682		2008 GMC C7500 #1312079 SERVICE &	892.82

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167542	5/24/2022	111737 111737 TORRANCE AUTO REPAIR	(Continued)		Total :	892.82
167543	5/24/2022	111481 TRIO COMMUNITY MEALS, LLC	INV2230009964	034-00480	SENIOR FEEDING PROGRAM	8,962.35
			INV2230010339	034-00480	SENIOR FEEDING PROGRAM	8,808.72
			INV2230010764	034-00480	SENIOR FEEDING PROGRAM	8,804.33
					Total :	26,575.40
167544	5/24/2022	112068 TURNER, KEITH	49808		REFUND - REPORT NO LONGER NEED	23.00
					Total :	23.00
167545	5/24/2022	109900 U.S. BANK CORPORATE PAYMENT, SYSTEMS	FCC 04/22/22		CAL CARD STATEMENT 03/23-04/22/22	3,882.42
			FOX 04/22/22		CAL CARD STATEMENT 03/23-04/22/22	90.00
			HR 04/22/22		CAL CARD STATEMENT 03/23-04/22/22	395.94
			LEWIS 04/22/22		CAL CARD STATEMENT 03/23-04/22/22	1,657.09
			OROZCO 04/22/22		CAL CARD STATEMENT 03/23-04/22/22	3,124.07
			PD TRAINING 03/22/22		CAL CARD STATEMENT 02/23-03/22/22	540.76
			PD TRAINING2 3/22/22		CAL CARD STATEMENT 02/23-03/22/22	2,948.90
			PD TRAINING3 3/22/22		CAL CARD STATEMENT 02/23-03/22/22	2,270.12
			PD TRAINING4 3/22/22		CAL CARD STATEMENT 02/23-03/22/22	1,334.99
			V.OSORIO 04/22/22		CAL CARD STATEMENT 03/23-04/22/22	2,941.27
					Total :	19,185.56
167546	5/24/2022	109220 U.S. BANK EQUIPMENT FINANCE	471204024		RICOH MPC4503 COPIER LEASE - CD	151.70
					Total :	151.70
167547	5/24/2022	104692 ULINE	147517890		PD PROGRAM SUPPLIES	50.92
					Total :	50.92
167548	5/24/2022	121275 UNDERGROUND SERVICE ALERT, OF SC	420220282		NEW TICKETS	171.70
					Total :	171.70
167549	5/24/2022	103227 UNIPLAN ENGINEERING, INC.	800152-04R	024-00721	DESIGN & CMI SERVICES - WESTERN /	12,991.20
					Total :	12,991.20
167550	5/24/2022	121010 UNITED RENTALS	205973837		RENTAL - TRENCHER	241.46
					Total :	241.46
167551	5/24/2022	105549 VALDEZ, MATILDE	APRIL 2022		CHILD CARE PROVIDER	13,297.00

Bank code : usb

Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167551	5/24/2022	105549 105549 VALDEZ, MATILDE	(Continued)		Total :	13,297.00
167552	5/24/2022	105259 VINI'S PARTY RENTALS	700188		RENTAL- VINYL WHITE UMBRELLA 7', 2	1,000.25
					Total :	1,000.25
167553	5/24/2022	110694 VORNDRAN, NEAL	SPRING 2022		EDUCATIONAL REIMBURSEMENT	2,340.00
					Total :	2,340.00
167554	5/24/2022	108353 WALTERS WHOLESALE ELECTRIC CO	S120410864 S120474118 S120592504		BLDG MAINT SUPPLIES SIGNS/ SIGNALS MAINT SUPPLIES SIGNS/ SIGNALS MAINT SUPPLIES	877.09 242.57 27.71
					Total :	1,147.37
167555	5/24/2022	101903 WATER TECHNIQUES	79213		DRINKING WATER SYSTEM RENTAL	45.00
					Total :	45.00
167556	5/24/2022	104107 WAXIE SANITARY SUPPLY	80803873		BUS WASH SUPPLIES	183.81
					Total :	183.81
167557	5/24/2022	123350 WEST COAST SAND & GRAVEL, INC.	490833		STREET MAINT SUPPLIES	895.11
					Total :	895.11
167558	5/24/2022	119387 WEX BANK	80744805		FUEL PURCHASES	615.33
					Total :	615.33
167559	5/24/2022	105568 WORTHY, PATRICIA	APRIL 2022		VOLUNTEER DRIVER	28.00
					Total :	28.00
167560	5/24/2022	125001 YAMADA COMPANY, INC.	81897 81906 81907 81908 81909 81918 81946		PARK MAINT SUPPLIES PARK MAINT SUPPLIES PARK MAINT SUPPLIES PARK MAINT SUPPLIES PARK MAINT SUPPLIES PARK MAINT SUPPLIES PARK MAINT SUPPLIES	7.76 137.15 89.83 37.43 41.41 43.60 35.48
					Total :	392.66
167561	5/24/2022	107051 ZAVALA, MARITZA	APRIL 2022		CHILD CARE PROVIDER	5,183.00

Bank code : usb

Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
167561	5/24/2022	107051	107051 ZAVALETA, MARITZA		(Continued)	
Total :						5,183.00
168 Vouchers for bank code : usb						Bank total : 1,131,692.17
168 Vouchers in this report						Total vouchers : 1,131,692.17

usb

CLAIMS VOUCHER APPROVAL

By:

This is to certify that the claims or demands covered by checks listed on pages 1 to 18 inclusive of the check register have been audited by the City Council of the City of Gardena and that all of the said checks are approved for payment except check numbers:

05/24/2022

Date

Date _____

Date _____

Date _____

CITY OF GARDENA



INVESTMENT REPORT

March 2022

Prepared by Danny Rodriguez, Deputy City Treasurer
Reviewed by Ray Beeman, Director of Administrative Services



City of Gardena Consolidated - Account #10647

MONTHLY ACCOUNT STATEMENT

MARCH 1, 2022 THROUGH MARCH 31, 2022

Chandler Team:

For questions about your account, please call (800) 317-4747,
or contact operations@chandlerasset.com

CHANDLER ASSET MANAGEMENT
chandlerasset.com

Information contained herein is confidential. We urge you to compare this statement to the one you receive from your qualified custodian. Please see Important Disclosures.



PORTFOLIO CHARACTERISTICS

Average Modified Duration	1.11
Average Coupon	1.13%
Average Purchase YTM	0.91%
Average Market YTM	1.55%
Average S&P/Moody Rating	AA/Aa1
Average Final Maturity	1.21 yrs
Average Life	1.15 yrs

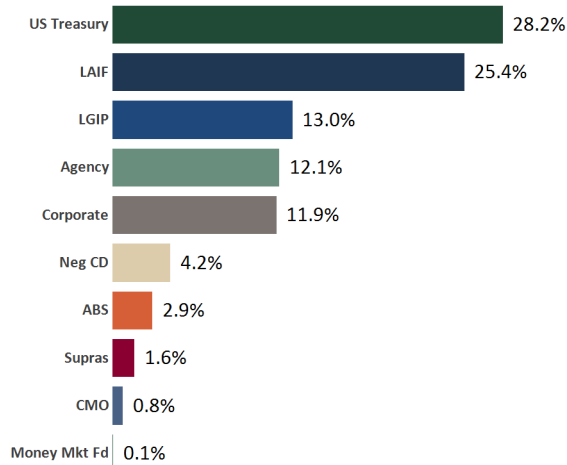
ACCOUNT SUMMARY

	Beg. Values as of 2/28/22	End Values as of 3/31/22
Market Value	50,332,166	49,901,966
Accrued Interest	108,927	91,360
Total Market Value	50,441,094	49,993,326
Income Earned	26,345	33,421
Cont/WD		
Par	44,470,556	44,543,605
Book Value	50,618,042	50,669,031
Cost Value	50,718,131	50,778,524

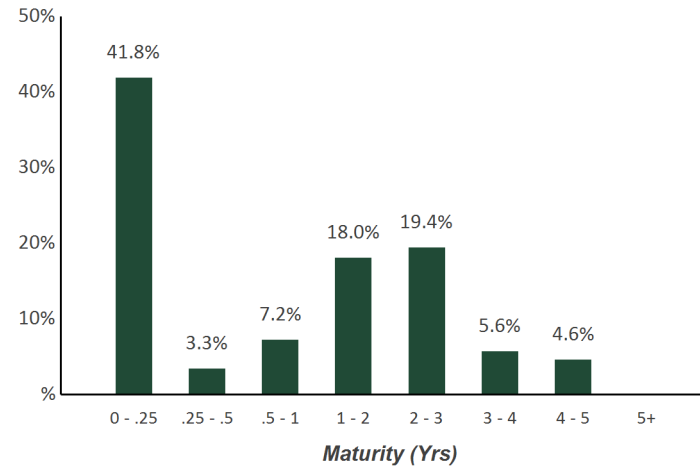
TOP ISSUERS

Government of United States	28.2%
Local Agency Investment Fund	25.4%
CalTrust	13.0%
Federal Home Loan Mortgage Corp	5.2%
Federal Farm Credit Bank	3.5%
Federal National Mortgage Assoc	2.3%
Federal Home Loan Bank	1.7%
Bank of Nova Scotia Houston	1.2%
Total	80.6%

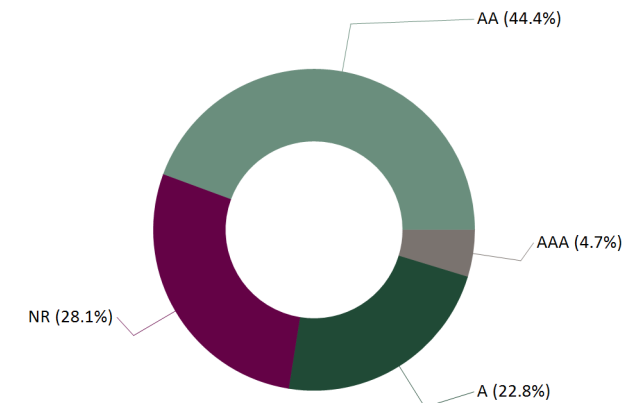
SECTOR ALLOCATION



MATURITY DISTRIBUTION



CREDIT QUALITY (S&P)



Holdings Report

As of March 31, 2022



CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
ABS									
89231PAD0	Toyota Auto Receivables Trust 2018-D A3 3.18% Due 3/15/2023	3,464.86	08/29/2019 1.98%	3,538.90 3,484.79	100.10 0.57%	3,468.33 4.90	0.01% (16.46)	Aaa / AAA NR	0.96 0.04
47789JAD8	John Deere Owner Trust 2019-A A3 2.91% Due 7/17/2023	35,366.97	Various 1.39%	36,194.94 35,492.47	100.16 1.13%	35,422.74 45.74	0.07% (69.73)	Aaa / NR AAA	1.30 0.09
43815NAC8	Honda Auto Receivables Trust 2019-3 A3 1.78% Due 8/15/2023	40,973.26	08/20/2019 1.79%	40,972.93 40,973.21	100.08 1.48%	41,007.23 32.41	0.08% 34.02	Aaa / AAA NR	1.38 0.29
92348AAA3	Verizon Owner Trust 2019-C A1A 1.94% Due 4/22/2024	43,220.16	10/01/2019 1.95%	43,216.82 43,218.65	100.13 1.59%	43,275.83 25.62	0.09% 57.18	NR / AAA AAA	2.06 0.38
89232HAC9	Toyota Auto Receivable Own 2020-A A3 1.66% Due 5/15/2024	142,695.23	07/06/2020 0.70%	145,838.98 144,426.86	100.08 1.47%	142,811.67 105.28	0.29% (1,615.19)	Aaa / AAA NR	2.13 0.45
65479JAD5	Nissan Auto Receivables Owner 2019-C A3 1.93% Due 7/15/2024	58,809.24	10/16/2019 1.94%	58,806.14 58,807.74	100.19 1.42%	58,923.15 50.45	0.12% 115.41	Aaa / AAA NR	2.29 0.38
43813KAC6	Honda Auto Receivables Trust 2020-3 A3 0.37% Due 10/18/2024	85,000.00	09/22/2020 0.38%	84,987.51 84,993.50	98.74 2.13%	83,931.47 11.36	0.17% (1,062.03)	NR / AAA AAA	2.55 0.71
58769KAD6	Mercedes-Benz Auto Lease Trust 2021-B A3 0.4% Due 11/15/2024	80,000.00	06/22/2021 0.40%	79,993.96 79,995.75	97.45 2.42%	77,963.12 14.22	0.16% (2,032.63)	NR / AAA AAA	2.63 1.27
09690AAC7	BMW Vehicle Lease Trust 2021-2 A3 0.33% Due 12/26/2024	50,000.00	09/08/2021 0.34%	49,994.84 49,996.07	97.49 2.43%	48,743.70 2.75	0.10% (1,252.37)	Aaa / NR AAA	2.74 1.20
89236XAC0	Toyota Auto Receivables 2020-D A3 0.35% Due 1/15/2025	70,000.00	10/06/2020 0.36%	69,986.96 69,991.45	98.85 2.14%	69,194.16 10.89	0.14% (797.29)	NR / AAA AAA	2.80 0.64
92290BAA9	Verizon Owner Trust 2020-B A 0.47% Due 2/20/2025	120,000.00	08/04/2020 0.48%	119,974.80 119,983.90	98.62 2.09%	118,340.88 17.23	0.24% (1,643.02)	Aaa / NR AAA	2.90 0.86
05601XAC3	BMW Vehicle Lease Trust 2022-1 A3 1.1% Due 3/25/2025	85,000.00	01/11/2022 1.11%	84,987.29 84,988.44	97.51 2.72%	82,885.97 15.58	0.17% (2,102.47)	NR / AAA AAA	2.99 1.55
43813GAC5	Honda Auto Receivables Trust 2021-1 A3 0.27% Due 4/21/2025	80,000.00	02/17/2021 0.27%	79,998.54 79,999.06	97.92 2.54%	78,333.20 6.00	0.16% (1,665.86)	Aaa / NR AAA	3.06 0.92
47788UAC6	John Deere Owner Trust 2021-A A3 0.36% Due 9/15/2025	60,000.00	03/02/2021 0.37%	59,988.47 59,991.86	96.85 2.79%	58,109.46 9.60	0.12% (1,882.40)	Aaa / NR AAA	3.46 1.30

Holdings Report

As of March 31, 2022



CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
ABS									
43815GAC3	Honda Auto Receivables Trust 2021-4 A3 0.88% Due 1/21/2026	85,000.00	11/16/2021 0.89%	84,982.08 84,984.02	96.82 2.58%	82,299.55 20.78	0.16% (2,684.47)	Aaa / NR AAA	3.81 1.89
47789QAC4	John Deere Owner Trust 2021-B A3 0.52% Due 3/16/2026	70,000.00	07/13/2021 0.52%	69,993.76 69,994.95	95.82 2.82%	67,073.86 16.18	0.13% (2,921.09)	Aaa / NR AAA	3.96 1.85
89238JAC9	Toyota Auto Receivables Trust 2021-D A3 0.71% Due 4/15/2026	65,000.00	11/09/2021 0.71%	64,998.62 64,998.78	96.22 2.82%	62,545.60 20.51	0.13% (2,453.18)	NR / AAA AAA	4.04 1.81
43815BAC4	Honda Auto Receivables Trust 2022-1 A3 1.88% Due 5/15/2026	165,000.00	02/15/2022 1.89%	164,975.18 164,975.96	98.21 2.68%	162,045.68 137.87	0.32% (2,930.28)	Aaa / AAA NR	4.13 2.26
47787JAC2	John Deere Owner Trust 2022-A A3 2.32% Due 9/16/2026	130,000.00	03/10/2022 2.34%	129,971.24 129,971.60	98.70 2.91%	128,314.16 125.67	0.26% (1,657.44)	Aaa / NR AAA	4.47 2.22
Total ABS		1,469,529.72	1.02%	1,473,401.96 1,471,269.06	2.30%	1,444,689.76 673.04	2.89% (26,579.30)	Aaa / AAA AAA	3.10 1.25
AGENCY									
3133ELWD2	FFCB Note 0.375% Due 4/8/2022	285,000.00	04/03/2020 0.45%	284,578.20 284,995.96	100.00 0.34%	285,001.71 513.59	0.57% 5.75	Aaa / AA+ AAA	0.02 0.02
3133ELYR9	FFCB Note 0.25% Due 5/6/2022	325,000.00	04/30/2020 0.31%	324,587.25 324,980.21	100.00 0.24%	325,001.63 327.26	0.65% 21.42	Aaa / AA+ AAA	0.10 0.10
3134GVJ66	FHLMC Note 0.25% Due 6/8/2022	350,000.00	06/04/2020 0.28%	349,790.00 349,980.44	99.92 0.67%	349,727.70 274.65	0.70% (252.74)	Aaa / NR AAA	0.19 0.19
3137EAET2	FHLMC Note 0.125% Due 7/25/2022	170,000.00	07/21/2020 0.24%	169,615.80 169,939.64	99.79 0.77%	169,651.33 38.96	0.34% (288.31)	Aaa / AA+ AAA	0.32 0.32
3130ADRG9	FHLB Note 2.75% Due 3/10/2023	350,000.00	04/11/2019 2.34%	355,330.50 351,280.37	100.94 1.74%	353,294.55 561.46	0.71% 2,014.18	Aaa / AA+ NR	0.94 0.93
3137EAER6	FHLMC Note 0.375% Due 5/5/2023	305,000.00	05/05/2020 0.39%	304,871.90 304,953.24	98.41 1.85%	300,152.03 463.85	0.60% (4,801.21)	Aaa / AA+ AAA	1.10 1.08
3135G04Q3	FNMA Note 0.25% Due 5/22/2023	245,000.00	05/20/2020 0.35%	244,262.55 244,719.84	98.15 1.89%	240,474.61 219.48	0.48% (4,245.23)	Aaa / AA+ AAA	1.14 1.13
3137EAES4	FHLMC Note 0.25% Due 6/26/2023	300,000.00	06/24/2020 0.35%	299,124.00 299,639.20	97.93 1.95%	293,793.00 197.92	0.59% (5,846.20)	Aaa / AA+ AAA	1.24 1.22

Holdings Report

As of March 31, 2022



CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
AGENCY									
3135G05G4	FNMA Note 0.25% Due 7/10/2023	250,000.00	07/08/2020 0.32%	249,462.50 249,771.75	97.85 1.97%	244,616.00 140.63	0.49% (5,155.75)	Aaa / AA+ AAA	1.28 1.26
3137EAEV7	FHLMC Note 0.25% Due 8/24/2023	300,000.00	08/19/2020 0.28%	299,694.00 299,857.87	97.49 2.08%	292,472.10 77.08	0.59% (7,385.77)	Aaa / AA+ AAA	1.40 1.38
3137EAEW5	FHLMC Note 0.25% Due 9/8/2023	300,000.00	09/11/2020 0.24%	300,093.00 300,044.83	97.48 2.04%	292,454.40 47.92	0.59% (7,590.43)	Aaa / AA+ AAA	1.44 1.42
3135G0U43	FNMA Note 2.875% Due 9/12/2023	350,000.00	09/25/2019 1.63%	366,702.00 356,105.98	101.07 2.12%	353,731.35 531.08	0.71% (2,374.63)	Aaa / AA+ AAA	1.45 1.41
3137EAEY1	FHLMC Note 0.125% Due 10/16/2023	225,000.00	10/14/2020 0.25%	224,160.75 224,568.50	96.99 2.12%	218,228.85 128.91	0.44% (6,339.65)	Aaa / AA+ AAA	1.55 1.52
3137EAEZ8	FHLMC Note 0.25% Due 11/6/2023	335,000.00	11/03/2020 0.28%	334,698.50 334,839.35	97.04 2.14%	325,087.01 337.33	0.65% (9,752.34)	Aaa / AA+ AAA	1.60 1.58
3130A0F70	FHLB Note 3.375% Due 12/8/2023	350,000.00	10/30/2019 1.72%	372,781.50 359,361.84	101.82 2.27%	356,363.70 3,707.81	0.72% (2,998.14)	Aaa / AA+ AAA	1.69 1.62
3130A1XJ2	FHLB Note 2.875% Due 6/14/2024	155,000.00	03/24/2020 0.99%	167,010.95 161,270.31	101.01 2.40%	156,568.29 1,324.50	0.32% (4,702.02)	Aaa / AA+ NR	2.21 2.11
3133ENKS8	FFCB Note 1.125% Due 1/6/2025	750,000.00	Various 1.60%	740,054.10 740,465.47	96.49 2.44%	723,704.26 1,875.00	1.45% (16,761.21)	Aaa / AA+ AAA	2.77 2.69
3133ENPG9	FFCB Note 1.75% Due 2/14/2025	415,000.00	02/10/2022 1.84%	413,891.95 413,937.49	98.09 2.44%	407,078.48 927.99	0.82% (6,859.01)	Aaa / AA+ AAA	2.88 2.77
3135G06G3	FNMA Note 0.5% Due 11/7/2025	350,000.00	11/18/2020 0.52%	349,639.50 349,738.47	93.23 2.48%	326,293.80 700.00	0.65% (23,444.67)	Aaa / AA+ AAA	3.61 3.52
Total Agency		6,110,000.00	0.88%	6,150,348.95 6,120,450.76	1.84%	6,013,694.80 12,395.42	12.05% (106,755.96)	Aaa / AA+ AAA	1.54 1.50
CMO									
3137BM6P6	FHLMC K721 A2 3.09% Due 8/25/2022	98,678.24	06/26/2019 2.09%	101,384.18 99,020.59	100.20 1.35%	98,877.47 254.10	0.20% (143.12)	Aaa / NR NR	0.40 0.24
3137B4GY6	FHLMC K032 A2 3.31% Due 5/25/2023	275,000.00	07/23/2019 2.21%	285,881.84 278,259.11	101.06 2.14%	277,916.38 151.71	0.56% (342.73)	NR / NR AAA	1.15 1.08
Total CMO		373,678.24	2.18%	387,266.02 377,279.70	1.93%	376,793.85 405.81	0.75% (485.85)	Aaa / NR AAA	0.95 0.86

Holdings Report

As of March 31, 2022



CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
CORPORATE									
459200JX0	IBM Corp Note 2.85% Due 5/13/2022	200,000.00	05/16/2019 2.80%	200,300.00 200,011.57	100.21 1.08%	200,410.60 2,185.00	0.41% 399.03	A3 / A- NR	0.12 0.12
24422ETV1	John Deere Capital Corp Note 2.15% Due 9/8/2022	305,000.00	04/17/2019 2.78%	298,851.20 304,203.39	100.36 1.32%	306,090.68 418.95	0.61% 1,887.29	A2 / A A	0.44 0.43
89236TEL5	Toyota Motor Credit Corp Note 2.7% Due 1/11/2023	200,000.00	04/25/2019 2.72%	199,856.00 199,969.67	100.85 1.59%	201,703.60 1,200.00	0.41% 1,733.93	A1 / A+ A+	0.78 0.77
037833DE7	Apple Inc Callable Note Cont 12/13/2022 2.4% Due 1/13/2023	200,000.00	11/21/2019 1.83%	203,350.00 200,769.84	100.64 1.47%	201,275.60 1,040.00	0.40% 505.76	Aaa / AA+ NR	0.79 0.69
747525AR4	Qualcomm Inc Callable Note Cont 12/30/2022 2.6% Due 1/30/2023	500,000.00	Various 0.63%	512,557.50 507,338.59	100.76 1.58%	503,789.00 2,202.78	1.01% (3,549.59)	A2 / A NR	0.84 0.74
037833AK6	Apple Inc Note 2.4% Due 5/3/2023	200,000.00	03/11/2019 2.79%	196,968.00 199,203.90	100.57 1.87%	201,143.60 1,973.33	0.41% 1,939.70	Aaa / AA+ NR	1.09 1.06
90331HNV1	US Bank NA Callable Note Cont 6/23/2023 3.4% Due 7/24/2023	250,000.00	05/17/2019 2.70%	256,695.00 252,007.60	101.38 2.25%	253,458.00 1,581.94	0.51% 1,450.40	A1 / AA- AA-	1.32 1.20
06406FAD5	Bank of NY Mellon Corp Callable Note Cont 6/16/2023 2.2% Due 8/16/2023	200,000.00	04/11/2019 2.90%	194,298.00 198,192.93	99.92 2.26%	199,831.60 550.00	0.40% 1,638.67	A1 / A AA-	1.38 1.34
594918BX1	Microsoft Callable Note Cont 12/6/2023 2.875% Due 2/6/2024	200,000.00	03/05/2020 1.06%	213,320.00 205,982.79	101.36 2.04%	202,718.20 878.47	0.41% (3,264.59)	Aaa / AAA AAA	1.85 1.63
89114QCB2	Toronto Dominion Bank Note 3.25% Due 3/11/2024	500,000.00	Various 1.52%	523,124.00 516,322.77	101.27 2.58%	506,330.00 902.78	1.01% (9,992.77)	A1 / A AA-	1.95 1.87
808513BN4	Charles Schwab Corp Callable Note Cont 2/18/2024 0.75% Due 3/18/2024	245,000.00	Various 0.58%	246,097.00 245,758.72	96.75 2.46%	237,026.97 66.36	0.47% (8,731.75)	A2 / A A	1.97 1.93
023135BW5	Amazon.com Inc Note 0.45% Due 5/12/2024	130,000.00	05/10/2021 0.50%	129,810.20 129,866.31	96.43 2.19%	125,356.53 225.88	0.25% (4,509.78)	A1 / AA AA-	2.12 2.08
91324PEB4	United Health Group Inc Callable Note Cont 5/15/2022 0.55% Due 5/15/2024	500,000.00	11/24/2021 1.07%	493,760.00 494,614.70	95.87 2.56%	479,354.00 1,038.89	0.96% (15,260.70)	A3 / A+ A	2.13 2.08
14913R2L0	Caterpillar Financial Service Note 0.45% Due 5/17/2024	500,000.00	Various 0.66%	497,344.65 497,820.52	95.73 2.52%	478,646.00 837.51	0.96% (19,174.52)	A2 / A A	2.13 2.09



CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
CORPORATE									
89236TJH9	Toyota Motor Credit Corp Note 0.5% Due 6/18/2024	300,000.00	12/06/2021 1.07%	295,710.00 296,239.86	95.54 2.59%	286,606.80 429.17	0.57% (9,633.06)	A1 / A+ A+	2.22 2.17
79466LAG9	Salesforce.com Inc Callable Note Cont 7/15/2022 0.625% Due 7/15/2024	35,000.00	06/29/2021 0.64%	34,982.15 34,986.42	95.83 2.51%	33,539.24 46.18	0.07% (1,447.18)	A2 / A+ NR	2.29 2.24
69371RR40	Paccar Financial Corp Note 0.5% Due 8/9/2024	80,000.00	08/03/2021 0.52%	79,956.80 79,966.06	95.54 2.46%	76,434.96 57.78	0.15% (3,531.10)	A1 / A+ NR	2.36 2.31
78015K7C2	Royal Bank of Canada Note 2.25% Due 11/1/2024	500,000.00	Various 0.88%	524,067.75 517,441.67	98.67 2.78%	493,374.50 4,687.51	1.00% (24,067.17)	A1 / A AA-	2.59 2.47
69371RR57	Paccar Financial Corp Note 0.9% Due 11/8/2024	175,000.00	11/02/2021 0.90%	174,989.50 174,990.88	95.70 2.62%	167,476.58 625.63	0.34% (7,514.30)	A1 / A+ NR	2.61 2.54
46647PAH9	JP Morgan Chase & Co Callable Note 2X 3/1/2024 3.22% Due 3/1/2025	500,000.00	Various 1.01%	531,052.10 520,793.62	100.38 2.73%	501,881.50 1,341.67	1.01% (18,912.12)	A2 / A- AA-	2.92 2.77
24422EWB1	John Deere Capital Corp Note 2.125% Due 3/7/2025	130,000.00	03/02/2022 2.14%	129,944.10 129,945.38	98.46 2.67%	127,998.26 184.17	0.26% (1,947.12)	A2 / A NR	2.94 2.82
857477BR3	State Street Bank Callable Note Cont 2/6/2025 1.746% Due 2/6/2026	90,000.00	02/02/2022 1.75%	90,000.00 90,000.00	96.44 2.80%	86,792.22 235.71	0.17% (3,207.78)	A1 / A AA-	3.86 3.67
931142ER0	Wal-Mart Stores Callable Note Cont 08/17/2026 1.05% Due 9/17/2026	40,000.00	09/08/2021 1.09%	39,924.40 39,932.51	93.10 2.70%	37,239.32 16.33	0.07% (2,693.19)	Aa2 / AA AA	4.47 4.31
Total Corporate		5,980,000.00	1.41%	6,066,958.35 6,036,359.70	2.25%	5,908,477.76 22,726.04	11.86% (127,881.94)	A1 / A+ A+	1.83 1.75
LAIF									
90LAIF\$00	Local Agency Investment Fund State Pool	12,696,899.16	Various 0.42%	12,696,899.16 12,696,899.16	1.00 0.42%	12,696,899.16 9,102.59	25.42% 0.00	NR / NR NR	0.00 0.00
Total LAIF		12,696,899.16	0.42%	12,696,899.16 12,696,899.16	0.42%	12,696,899.16 9,102.59	25.42% 0.00	NR / NR NR	0.00 0.00



CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
LOCAL GOV INVESTMENT POOL									
09CATR\$05	CalTrust Medium Term Fund	654,127.73	Various 1.28%	6,580,375.52 6,580,375.52	9.93 1.28%	6,495,488.37 0.00	12.99% (84,887.15)	NR / A+ NR	0.00 0.00
Total Local Gov Investment Pool		654,127.73	1.28%	6,580,375.52 6,580,375.52	1.28%	6,495,488.37 0.00	12.99% (84,887.15)	NR / A+ NR	0.00 0.00
MONEY MARKET FUND									
31846V203	First American Govt Obligation Fund Class Y	34,370.17	Various 0.01%	34,370.17 34,370.17	1.00 0.01%	34,370.17 0.00	0.07% 0.00	Aaa / AAA AAA	0.00 0.00
Total Money Market Fund		34,370.17	0.01%	34,370.17 34,370.17	0.01%	34,370.17 0.00	0.07% 0.00	Aaa / AAA AAA	0.00 0.00
NEGOTIABLE CD									
06367CDX2	Bank of Montreal Chicago Yankee CD 0.24% Due 4/6/2022	500,000.00	11/23/2021 0.20%	500,073.82 500,002.75	100.00 0.31%	499,994.00 430.00	1.00% (8.75)	P-1 / A-1 F-1+	0.02 0.02
06417MQY4	Bank of Nova Scotia Houston Yankee CD 0.19% Due 7/28/2022	600,000.00	11/18/2021 0.26%	599,707.04 599,862.27	99.71 1.07%	598,260.00 782.17	1.20% (1,602.27)	P-1 / A-1 F-1+	0.33 0.32
86959RSN1	Svenska Handelsbanken NY Yankee CD 0.2% Due 8/23/2022	500,000.00	10/27/2021 0.27%	499,708.60 499,860.13	99.59 1.23%	497,926.50 613.89	1.00% (1,933.63)	P-1 / A-1+ F-1+	0.40 0.39
55380TXW5	MUFG Bank Yankee CD 0.3% Due 10/25/2022	500,000.00	10/27/2021 0.32%	499,899.59 499,942.58	99.36 1.41%	496,822.00 700.00	1.00% (3,120.58)	P-1 / A-1 F-1	0.57 0.57
Total Negotiable CD		2,100,000.00	0.26%	2,099,389.05 2,099,667.73	1.01%	2,093,002.50 2,526.06	4.19% (6,665.23)	Aaa / AA+ AAA	0.33 0.32
SUPRANATIONAL									
459058JM6	Intl. Bank Recon & Development Note 0.25% Due 11/24/2023	165,000.00	11/17/2020 0.32%	164,645.25 164,804.97	96.82 2.22%	159,761.09 145.52	0.32% (5,043.88)	Aaa / AAA AAA	1.65 1.63
459058GQ0	Intl. Bank Recon & Development Note 2.5% Due 3/19/2024	225,000.00	01/26/2021 0.26%	240,736.50 234,859.34	100.34 2.32%	225,759.15 187.50	0.45% (9,100.19)	Aaa / AAA AAA	1.97 1.91

Holdings Report

As of March 31, 2022



CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
SUPRANATIONAL									
4581X0DZ8	Inter-American Dev Bank Note 0.5% Due 9/23/2024	260,000.00	09/15/2021 0.52%	259,807.60 259,840.95	95.31 2.46%	247,798.20 28.89	0.50% (12,042.75)	Aaa / AAA NR	2.48 2.43
45950KCR9	International Finance Corp Note 1.375% Due 10/16/2024	160,000.00	07/12/2021 0.54%	164,304.00 163,360.01	97.46 2.41%	155,942.40 1,008.33	0.31% (7,417.61)	Aaa / AAA NR	2.55 2.46
Total Supranational		810,000.00	0.41%	829,493.35 822,865.27	2.36%	789,260.84 1,370.24	1.58% (33,604.43)	Aaa / AAA AAA	2.18 2.13
US TREASURY									
912828M80	US Treasury Note 2% Due 11/30/2022	750,000.00	Various 0.75%	761,879.29 756,213.69	100.45 1.31%	753,398.25 5,027.47	1.52% (2,815.44)	Aaa / AA+ AAA	0.67 0.66
912828YW4	US Treasury Note 1.625% Due 12/15/2022	750,000.00	02/15/2022 1.00%	753,837.89 753,278.73	100.20 1.34%	751,494.00 3,582.59	1.51% (1,784.73)	Aaa / AA+ AAA	0.71 0.70
912828ZD5	US Treasury Note 0.5% Due 3/15/2023	325,000.00	12/28/2021 0.47%	325,101.56 325,080.14	98.92 1.64%	321,496.18 75.07	0.64% (3,583.96)	Aaa / AA+ AAA	0.96 0.95
912828VB3	US Treasury Note 1.75% Due 5/15/2023	750,000.00	Various 0.79%	761,337.89 758,002.79	99.89 1.85%	749,150.25 4,967.19	1.51% (8,852.54)	Aaa / AA+ AAA	1.12 1.10
912828ZU7	US Treasury Note 0.25% Due 6/15/2023	750,000.00	02/15/2022 1.36%	739,130.86 740,118.96	98.08 1.86%	735,615.00 551.17	1.47% (4,503.96)	Aaa / AA+ AAA	1.21 1.20
912828T26	US Treasury Note 1.375% Due 9/30/2023	750,000.00	Various 1.05%	750,579.29 753,702.32	98.94 2.10%	742,060.50 28.18	1.48% (11,641.82)	Aaa / AA+ AAA	1.50 1.47
912828V80	US Treasury Note 2.25% Due 1/31/2024	750,000.00	Various 0.83%	776,144.53 769,233.05	99.96 2.27%	749,677.50 2,796.96	1.51% (19,555.55)	Aaa / AA+ AAA	1.84 1.78
912828B66	US Treasury Note 2.75% Due 2/15/2024	750,000.00	02/15/2022 1.58%	767,255.86 766,214.35	100.83 2.29%	756,240.00 2,563.88	1.52% (9,974.35)	Aaa / AA+ AAA	1.88 1.82
912828W71	US Treasury Note 2.125% Due 3/31/2024	750,000.00	Various 0.67%	775,839.84 771,649.17	99.64 2.31%	747,333.75 43.55	1.49% (24,315.42)	Aaa / AA+ AAA	2.00 1.95
91282CBV2	US Treasury Note 0.375% Due 4/15/2024	500,000.00	Various 0.37%	500,162.11 500,095.20	96.12 2.33%	480,605.50 865.39	0.96% (19,489.70)	Aaa / AA+ AAA	2.04 2.01
912828WJ5	US Treasury Note 2.5% Due 5/15/2024	750,000.00	Various 1.10%	779,783.21 771,799.52	100.28 2.36%	752,079.75 7,096.00	1.52% (19,719.77)	Aaa / AA+ AAA	2.13 2.04
91282CCG4	US Treasury Note 0.25% Due 6/15/2024	400,000.00	06/17/2021 0.43%	397,890.63 398,444.51	95.44 2.38%	381,765.60 293.96	0.76% (16,678.91)	Aaa / AA+ AAA	2.21 2.18

Holdings Report

As of March 31, 2022



CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
US TREASURY									
912828Y87	US Treasury Note 1.75% Due 7/31/2024	300,000.00	01/31/2020 1.35%	305,203.13 302,698.15	98.51 2.41%	295,535.10 870.17	0.59% (7,163.05)	Aaa / AA+ AAA	2.34 2.27
91282CCT6	US Treasury Note 0.375% Due 8/15/2024	400,000.00	08/25/2021 0.45%	399,109.38 399,288.32	95.30 2.42%	381,218.80 186.46	0.76% (18,069.52)	Aaa / AA+ AAA	2.38 2.34
91282CDH1	US Treasury Note 0.75% Due 11/15/2024	750,000.00	11/18/2021 0.83%	748,125.00 748,353.37	95.66 2.47%	717,480.75 2,128.80	1.44% (30,872.62)	Aaa / AA+ AAA	2.63 2.56
912828Z52	US Treasury Note 1.375% Due 1/31/2025	750,000.00	02/17/2022 1.71%	742,822.27 743,101.92	97.02 2.47%	727,617.00 1,709.25	1.46% (15,484.92)	Aaa / AA+ AAA	2.84 2.75
912828ZF0	US Treasury Note 0.5% Due 3/31/2025	350,000.00	03/25/2021 0.58%	348,906.26 349,181.38	94.30 2.48%	330,066.45 4.78	0.66% (19,114.93)	Aaa / AA+ AAA	3.00 2.94
912828ZT0	US Treasury Note 0.25% Due 5/31/2025	365,000.00	02/25/2021 0.60%	359,653.32 361,025.23	93.16 2.51%	340,048.97 305.84	0.68% (20,976.26)	Aaa / AA+ AAA	3.17 3.11
9128284Z0	US Treasury Note 2.75% Due 8/31/2025	750,000.00	Various 0.98%	800,092.78 794,360.48	100.83 2.50%	756,210.76 1,793.48	1.52% (38,149.72)	Aaa / AA+ AAA	3.42 3.24
91282CAZ4	US Treasury Note 0.375% Due 11/30/2025	750,000.00	Various 0.88%	734,730.47 736,416.65	92.55 2.51%	694,160.25 942.65	1.39% (42,256.40)	Aaa / AA+ AAA	3.67 3.59
9128286L9	US Treasury Note 2.25% Due 3/31/2026	750,000.00	02/25/2022 1.91%	760,078.13 759,861.98	99.09 2.49%	743,144.25 46.11	1.49% (16,717.73)	Aaa / AA+ AAA	4.00 3.80
912828R36	US Treasury Note 1.625% Due 5/15/2026	250,000.00	10/14/2021 0.99%	257,148.44 256,430.61	96.61 2.50%	241,513.75 1,537.47	0.49% (14,916.86)	Aaa / AA+ AAA	4.13 3.93
912828YG9	US Treasury Note 1.625% Due 9/30/2026	300,000.00	12/28/2021 1.24%	305,296.88 305,013.12	96.41 2.47%	289,218.60 13.32	0.58% (15,794.52)	Aaa / AA+ AAA	4.50 4.30
912828U24	US Treasury Note 2% Due 11/15/2026	625,000.00	03/29/2022 2.56%	609,912.11 609,929.95	97.95 2.47%	612,158.13 4,730.66	1.23% 2,228.18	Aaa / AA+ AAA	4.63 4.35
Total US Treasury		14,315,000.00	1.07%	14,460,021.13 14,429,493.59	2.21%	14,049,289.09 42,160.40	28.19% (380,204.50)	Aaa / AA+ AAA	2.33 2.25
TOTAL PORTFOLIO		44,543,605.02	0.91%	50,778,523.66 50,669,030.66	1.55%	49,901,966.30 91,359.60	100.00% (767,064.36)	Aa1 / AA AAA	1.21 1.11
TOTAL MARKET VALUE PLUS ACCRUED						49,993,325.90			



Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
ACQUISITIONS										
Purchase	03/01/2022	31846V203	8,050.00	First American Govt Obligation Fund Class Y	1.000	0.01%	8,050.00	0.00	8,050.00	0.00
Purchase	03/01/2022	31846V203	10.60	First American Govt Obligation Fund Class Y	1.000	0.01%	10.60	0.00	10.60	0.00
Purchase	03/07/2022	24422EWB1	130,000.00	John Deere Capital Corp Note 2.125% Due 3/7/2025	99.957	2.14%	129,944.10	0.00	129,944.10	0.00
Purchase	03/08/2022	31846V203	3,653.75	First American Govt Obligation Fund Class Y	1.000	0.01%	3,653.75	0.00	3,653.75	0.00
Purchase	03/10/2022	31846V203	4,812.50	First American Govt Obligation Fund Class Y	1.000	0.01%	4,812.50	0.00	4,812.50	0.00
Purchase	03/11/2022	31846V203	8,125.00	First American Govt Obligation Fund Class Y	1.000	0.01%	8,125.00	0.00	8,125.00	0.00
Purchase	03/12/2022	31846V203	5,031.25	First American Govt Obligation Fund Class Y	1.000	0.01%	5,031.25	0.00	5,031.25	0.00
Purchase	03/15/2022	31846V203	812.50	First American Govt Obligation Fund Class Y	1.000	0.01%	812.50	0.00	812.50	0.00
Purchase	03/15/2022	31846V203	189.57	First American Govt Obligation Fund Class Y	1.000	0.01%	189.57	0.00	189.57	0.00
Purchase	03/15/2022	31846V203	18.00	First American Govt Obligation Fund Class Y	1.000	0.01%	18.00	0.00	18.00	0.00
Purchase	03/15/2022	31846V203	30.33	First American Govt Obligation Fund Class Y	1.000	0.01%	30.33	0.00	30.33	0.00
Purchase	03/15/2022	31846V203	38.46	First American Govt Obligation Fund Class Y	1.000	0.01%	38.46	0.00	38.46	0.00
Purchase	03/15/2022	31846V203	20.42	First American Govt Obligation Fund Class Y	1.000	0.01%	20.42	0.00	20.42	0.00
Purchase	03/15/2022	31846V203	26.67	First American Govt Obligation Fund Class Y	1.000	0.01%	26.67	0.00	26.67	0.00
Purchase	03/15/2022	31846V203	6,103.20	First American Govt Obligation Fund Class Y	1.000	0.01%	6,103.20	0.00	6,103.20	0.00
Purchase	03/15/2022	31846V203	14,328.31	First American Govt Obligation Fund Class Y	1.000	0.01%	14,328.31	0.00	14,328.31	0.00



Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
ACQUISITIONS										
Purchase	03/15/2022	31846V203	5,818.86	First American Govt Obligation Fund Class Y	1.000	0.01%	5,818.86	0.00	5,818.86	0.00
Purchase	03/15/2022	31846V203	6,252.18	First American Govt Obligation Fund Class Y	1.000	0.01%	6,252.18	0.00	6,252.18	0.00
Purchase	03/15/2022	31846V203	12,874.79	First American Govt Obligation Fund Class Y	1.000	0.01%	12,874.79	0.00	12,874.79	0.00
Purchase	03/16/2022	47787JAC2	130,000.00	John Deere Owner Trust 2022-A A3 2.32% Due 9/16/2026	99.978	2.34%	129,971.24	0.00	129,971.24	0.00
Purchase	03/17/2022	31846V203	210.00	First American Govt Obligation Fund Class Y	1.000	0.01%	210.00	0.00	210.00	0.00
Purchase	03/18/2022	31846V203	918.75	First American Govt Obligation Fund Class Y	1.000	0.01%	918.75	0.00	918.75	0.00
Purchase	03/18/2022	31846V203	26.14	First American Govt Obligation Fund Class Y	1.000	0.01%	26.14	0.00	26.14	0.00
Purchase	03/19/2022	31846V203	2,812.50	First American Govt Obligation Fund Class Y	1.000	0.01%	2,812.50	0.00	2,812.50	0.00
Purchase	03/21/2022	31846V203	47.00	First American Govt Obligation Fund Class Y	1.000	0.01%	47.00	0.00	47.00	0.00
Purchase	03/21/2022	31846V203	62.33	First American Govt Obligation Fund Class Y	1.000	0.01%	62.33	0.00	62.33	0.00
Purchase	03/21/2022	31846V203	18.00	First American Govt Obligation Fund Class Y	1.000	0.01%	18.00	0.00	18.00	0.00
Purchase	03/21/2022	31846V203	5,570.47	First American Govt Obligation Fund Class Y	1.000	0.01%	5,570.47	0.00	5,570.47	0.00
Purchase	03/23/2022	31846V203	650.00	First American Govt Obligation Fund Class Y	1.000	0.01%	650.00	0.00	650.00	0.00
Purchase	03/25/2022	31846V203	758.54	First American Govt Obligation Fund Class Y	1.000	0.01%	758.54	0.00	758.54	0.00
Purchase	03/25/2022	31846V203	13.75	First American Govt Obligation Fund Class Y	1.000	0.01%	13.75	0.00	13.75	0.00
Purchase	03/25/2022	31846V203	77.92	First American Govt Obligation Fund Class Y	1.000	0.01%	77.92	0.00	77.92	0.00



Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
ACQUISITIONS										
Purchase	03/25/2022	31846V203	3,252.54	First American Govt Obligation Fund Class Y	1.000	0.01%	3,252.54	0.00	3,252.54	0.00
Purchase	03/30/2022	912828U24	625,000.00	US Treasury Note 2% Due 11/15/2026	97.586	2.56%	609,912.11	4,661.60	614,573.71	0.00
Purchase	03/31/2022	09CATR\$05	374.26	CalTrust Medium Term Fund	9.930	1.28%	3,716.44	0.00	3,716.44	0.00
Purchase	03/31/2022	31846V203	24,875.00	First American Govt Obligation Fund Class Y	1.000	0.01%	24,875.00	0.00	24,875.00	0.00
Subtotal			1,000,863.59				989,033.22	4,661.60	993,694.82	0.00
TOTAL ACQUISITIONS			1,000,863.59				989,033.22	4,661.60	993,694.82	0.00
DISPOSITIONS										
Sale	03/07/2022	31846V203	129,944.10	First American Govt Obligation Fund Class Y	1.000	0.01%	129,944.10	0.00	129,944.10	0.00
Sale	03/16/2022	31846V203	129,971.24	First American Govt Obligation Fund Class Y	1.000	0.01%	129,971.24	0.00	129,971.24	0.00
Sale	03/30/2022	31846V203	614,573.71	First American Govt Obligation Fund Class Y	1.000	0.01%	614,573.71	0.00	614,573.71	0.00
Subtotal			874,489.05				874,489.05	0.00	874,489.05	0.00
Paydown	03/15/2022	43815BAC4	0.00	Honda Auto Receivables Trust 2022-1 A3 1.88% Due 5/15/2026	100.000		0.00	189.57	189.57	0.00
Paydown	03/15/2022	43815NAC8	6,033.47	Honda Auto Receivables Trust 2019-3 A3 1.78% Due 8/15/2023	100.000		6,033.47	69.73	6,103.20	0.00
Paydown	03/15/2022	47788UAC6	0.00	John Deere Owner Trust 2021-A A3 0.36% Due 9/15/2025	100.000		0.00	18.00	18.00	0.00
Paydown	03/15/2022	47789JAD8	14,208.09	John Deere Owner Trust 2019-A A3 2.91% Due 7/17/2023	100.000		14,208.09	120.22	14,328.31	0.00



Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
DISPOSITIONS										
Paydown	03/15/2022	47789QAC4	0.00	John Deere Owner Trust 2021-B A3 0.52% Due 3/16/2026	100.000		0.00	30.33	30.33	0.00
Paydown	03/15/2022	58769KAD6	0.00	Mercedes-Benz Auto Lease Trust 2021-B A3 0.4% Due 11/15/2024	100.000		0.00	26.67	26.67	0.00
Paydown	03/15/2022	65479JAD5	5,715.08	Nissan Auto Receivables Owner 2019-C A3 1.93% Due 7/15/2024	100.000		5,715.08	103.78	5,818.86	0.00
Paydown	03/15/2022	89231PAD0	6,226.50	Toyota Auto Receivables Trust 2018-D A3 3.18% Due 3/15/2023	100.000		6,226.50	25.68	6,252.18	0.00
Paydown	03/15/2022	89232HAC9	12,659.88	Toyota Auto Receivable Own 2020-A A3 1.66% Due 5/15/2024	100.000		12,659.88	214.91	12,874.79	0.00
Paydown	03/15/2022	89236XAC0	0.00	Toyota Auto Receivables 2020-D A3 0.35% Due 1/15/2025	100.000		0.00	20.42	20.42	0.00
Paydown	03/15/2022	89238JAC9	0.00	Toyota Auto Receivables Trust 2021-D A3 0.71% Due 4/15/2026	100.000		0.00	38.46	38.46	0.00
Paydown	03/18/2022	43813KAC6	0.00	Honda Auto Receivables Trust 2020-3 A3 0.37% Due 10/18/2024	100.000		0.00	26.14	26.14	0.00
Paydown	03/21/2022	43813GAC5	0.00	Honda Auto Receivables Trust 2021-1 A3 0.27% Due 4/21/2025	100.000		0.00	18.00	18.00	0.00
Paydown	03/21/2022	43815GAC3	0.00	Honda Auto Receivables Trust 2021-4 A3 0.88% Due 1/21/2026	100.000		0.00	62.33	62.33	0.00
Paydown	03/21/2022	92290BAA9	0.00	Verizon Owner Trust 2020-B A 0.47% Due 2/20/2025	100.000		0.00	47.00	47.00	0.00
Paydown	03/21/2022	92348AAA3	5,491.72	Verizon Owner Trust 2019-C A1A 1.94% Due 4/22/2024	100.000		5,491.72	78.75	5,570.47	0.00



Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
DISPOSITIONS										
Paydown	03/25/2022	05601XAC3	0.00	BMW Vehicle Lease Trust 2022-1 A3 1.1% Due 3/25/2025	100.000		0.00	77.92	77.92	0.00
Paydown	03/25/2022	09690AAC7	0.00	BMW Vehicle Lease Trust 2021-2 A3 0.33% Due 12/26/2024	100.000		0.00	13.75	13.75	0.00
Paydown	03/25/2022	3137B4GY6	0.00	FHLMC K032 A2Due 5/25/2023	100.000		0.00	758.54	758.54	0.00
Paydown	03/25/2022	3137BM6P6	2,990.74	FHLMC K721 A2Due 8/25/2022	100.000		2,990.74	261.80	3,252.54	0.00
Subtotal			53,325.48				53,325.48	2,202.00	55,527.48	0.00
TOTAL DISPOSITIONS			927,814.53				927,814.53	2,202.00	930,016.53	0.00
OTHER TRANSACTIONS										
Interest	03/01/2022	46647PAH9	500,000.00	JP Morgan Chase & Co Callable Note 2X 3/1/2024 3.22% Due 3/1/2025	0.000		8,050.00	0.00	8,050.00	0.00
Interest	03/08/2022	24422ETV1	305,000.00	John Deere Capital Corp Note 2.15% Due 9/8/2022	0.000		3,278.75	0.00	3,278.75	0.00
Interest	03/08/2022	3137EAEW5	300,000.00	FHLMC Note 0.25% Due 9/8/2023	0.000		375.00	0.00	375.00	0.00
Interest	03/10/2022	3130ADRG9	350,000.00	FHLB Note 2.75% Due 3/10/2023	0.000		4,812.50	0.00	4,812.50	0.00
Interest	03/11/2022	89114QCB2	500,000.00	Toronto Dominion Bank Note 3.25% Due 3/11/2024	0.000		8,125.00	0.00	8,125.00	0.00
Interest	03/12/2022	3135G0U43	350,000.00	FNMA Note 2.875% Due 9/12/2023	0.000		5,031.25	0.00	5,031.25	0.00
Interest	03/15/2022	912828ZD5	325,000.00	US Treasury Note 0.5% Due 3/15/2023	0.000		812.50	0.00	812.50	0.00
Interest	03/17/2022	931142ER0	40,000.00	Wal-Mart Stores Callable Note Cont 08/17/2026 1.05% Due 9/17/2026	0.000		210.00	0.00	210.00	0.00



Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
OTHER TRANSACTIONS										
Interest	03/18/2022	808513BN4	245,000.00	Charles Schwab Corp Callable Note Cont 2/18/2024 0.75% Due 3/18/2024	0.000		918.75	0.00	918.75	0.00
Interest	03/19/2022	459058GQ0	225,000.00	Intl. Bank Recon & Development Note 2.5% Due 3/19/2024	0.000		2,812.50	0.00	2,812.50	0.00
Interest	03/23/2022	4581X0DZ8	260,000.00	Inter-American Dev Bank Note 0.5% Due 9/23/2024	0.000		650.00	0.00	650.00	0.00
Interest	03/31/2022	9128286L9	750,000.00	US Treasury Note 2.25% Due 3/31/2026	0.000		8,437.50	0.00	8,437.50	0.00
Interest	03/31/2022	912828T26	750,000.00	US Treasury Note 1.375% Due 9/30/2023	0.000		5,156.25	0.00	5,156.25	0.00
Interest	03/31/2022	912828W71	750,000.00	US Treasury Note 2.125% Due 3/31/2024	0.000		7,968.75	0.00	7,968.75	0.00
Interest	03/31/2022	912828YG9	300,000.00	US Treasury Note 1.625% Due 9/30/2026	0.000		2,437.50	0.00	2,437.50	0.00
Interest	03/31/2022	912828ZF0	350,000.00	US Treasury Note 0.5% Due 3/31/2025	0.000		875.00	0.00	875.00	0.00
Subtotal			6,300,000.00				59,951.25	0.00	59,951.25	0.00
Dividend	03/01/2022	31846V203	801,419.89	First American Govt Obligation Fund Class Y	0.000		10.60	0.00	10.60	0.00
Dividend	03/31/2022	09CATR\$05	653,753.47	CalTrust Medium Term Fund	0.000		3,716.44	0.00	3,716.44	0.00
Subtotal			1,455,173.36				3,727.04	0.00	3,727.04	0.00
TOTAL OTHER TRANSACTIONS			7,755,173.36				63,678.29	0.00	63,678.29	0.00

Income Earned

As of March 31, 2022



CUSIP	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
FIXED INCOME						
023135BW5	Amazon.com Inc Note 0.45% Due 05/12/2024	05/10/2021 05/12/2021 130,000.00	129,860.94 0.00 0.00 129,866.31	177.13 0.00 225.88 48.75	5.37 0.00 5.37 54.12	54.12
037833AK6	Apple Inc Note 2.4% Due 05/03/2023	03/11/2019 03/13/2019 200,000.00	199,141.74 0.00 0.00 199,203.90	1,573.33 0.00 1,973.33 400.00	62.16 0.00 62.16 462.16	462.16
037833DE7	Apple Inc Callable Note Cont 12/13/2022 2.4% Due 01/13/2023	11/21/2019 11/25/2019 200,000.00	200,863.06 0.00 0.00 200,769.84	640.00 0.00 1,040.00 400.00	0.00 93.22 (93.22) 306.78	306.78
05601XAC3	BMW Vehicle Lease Trust 2022-1 A3 1.1% Due 03/25/2025	01/11/2022 01/19/2022 85,000.00	84,987.94 0.00 0.00 84,988.44	15.58 77.92 15.58 77.92	0.50 0.00 0.50 78.42	78.42
06406FAD5	Bank of NY Mellon Corp Callable Note Cont 6/16/2023 2.2% Due 08/16/2023	04/11/2019 04/15/2019 200,000.00	198,081.33 0.00 0.00 198,192.93	183.33 0.00 550.00 366.67	111.60 0.00 111.60 478.27	478.27
09690AAC7	BMW Vehicle Lease Trust 2021-2 A3 0.33% Due 12/26/2024	09/08/2021 09/15/2021 50,000.00	49,995.88 0.00 0.00 49,996.07	2.75 13.75 2.75 13.75	0.19 0.00 0.19 13.94	13.94
14913R2L0	Caterpillar Financial Service Note 0.45% Due 05/17/2024	Various Various 500,000.00	497,733.57 0.00 0.00 497,820.52	650.00 0.00 837.51 187.51	86.95 0.00 86.95 274.46	274.46
24422ETV1	John Deere Capital Corp Note 2.15% Due 09/08/2022	04/17/2019 04/22/2019 305,000.00	304,049.05 0.00 0.00 304,203.39	3,151.24 3,278.75 418.95 546.46	154.34 0.00 154.34 700.80	700.80
24422EWB1	John Deere Capital Corp Note 2.125% Due 03/07/2025	03/02/2022 03/07/2022 130,000.00	0.00 129,944.10 0.00 129,945.38	0.00 0.00 184.17 184.17	1.28 0.00 1.28 185.45	185.45

Income Earned

As of March 31, 2022



CUSIP	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
3130A0F70	FHLB Note 3.375% Due 12/08/2023	10/30/2019 10/31/2019 350,000.00	359,832.98 0.00 0.00 359,361.84	2,723.44 0.00 3,707.81 984.37	0.00 471.14 (471.14) 513.23	513.23
3130A1XJ2	FHLB Note 2.875% Due 06/14/2024	03/24/2020 03/25/2020 155,000.00	161,511.77 0.00 0.00 161,270.31	953.14 0.00 1,324.50 371.36	0.00 241.46 (241.46) 129.90	129.90
3130ADRG9	FHLB Note 2.75% Due 03/10/2023	04/11/2019 04/12/2019 350,000.00	351,396.08 0.00 0.00 351,280.37	4,571.88 4,812.50 561.46 802.08	0.00 115.71 (115.71) 686.37	686.37
3133ELWD2	FFCB Note 0.375% Due 04/08/2022	04/03/2020 04/08/2020 285,000.00	284,978.04 0.00 0.00 284,995.96	424.53 0.00 513.59 89.06	17.92 0.00 17.92 106.98	106.98
3133ELYR9	FFCB Note 0.25% Due 05/06/2022	04/30/2020 05/06/2020 325,000.00	324,962.68 0.00 0.00 324,980.21	259.55 0.00 327.26 67.71	17.53 0.00 17.53 85.24	85.24
3133ENKS8	FFCB Note 1.125% Due 01/06/2025	Various Various 750,000.00	740,173.12 0.00 0.00 740,465.47	1,171.88 0.00 1,875.00 703.12	292.35 0.00 292.35 995.47	995.47
3133ENPG9	FFCB Note 1.75% Due 02/14/2025	02/10/2022 02/15/2022 415,000.00	413,906.12 0.00 0.00 413,937.49	322.78 0.00 927.99 605.21	31.37 0.00 31.37 636.58	636.58
3134GVJ66	FHLMC Note 0.25% Due 06/08/2022	06/04/2020 06/08/2020 350,000.00	349,971.52 0.00 0.00 349,980.44	201.74 0.00 274.65 72.91	8.92 0.00 8.92 81.83	81.83
3135G04Q3	FNMA Note 0.25% Due 05/22/2023	05/20/2020 05/22/2020 245,000.00	244,698.96 0.00 0.00 244,719.84	168.44 0.00 219.48 51.04	20.88 0.00 20.88 71.92	71.92

Income Earned

As of March 31, 2022



CUSIP	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
3135G05G4	FNMA Note 0.25% Due 07/10/2023	07/08/2020 07/10/2020 250,000.00	249,756.53 0.00 0.00 249,771.75	88.54 0.00 140.63 52.09	15.22 0.00 15.22 67.31	67.31
3135G06G3	FNMA Note 0.5% Due 11/07/2025	11/18/2020 11/19/2020 350,000.00	349,732.31 0.00 0.00 349,738.47	554.17 0.00 700.00 145.83	6.16 0.00 6.16 151.99	151.99
3135G0U43	FNMA Note 2.875% Due 09/12/2023	09/25/2019 09/26/2019 350,000.00	356,463.80 0.00 0.00 356,105.98	4,723.78 5,031.25 531.08 838.55	0.00 357.82 (357.82) 480.73	480.73
3137B4GY6	FHLMC K032 A2 3.31% Due 05/25/2023	07/23/2019 07/26/2019 275,000.00	278,500.23 0.00 0.00 278,259.11	151.71 758.54 151.71 758.54	0.00 241.12 (241.12) 517.42	517.42
3137BM6P6	FHLMC K721 A2 3.09% Due 08/25/2022	06/26/2019 06/28/2019 98,678.24	102,096.59 0.00 2,990.74 99,020.59	261.80 261.80 254.10 254.10	0.00 85.26 (85.26) 168.84	168.84
3137EAER6	FHLMC Note 0.375% Due 05/05/2023	05/05/2020 05/07/2020 305,000.00	304,949.60 0.00 0.00 304,953.24	368.54 0.00 463.85 95.31	3.64 0.00 3.64 98.95	98.95
3137EAES4	FHLMC Note 0.25% Due 06/26/2023	06/24/2020 06/26/2020 300,000.00	299,614.40 0.00 0.00 299,639.20	135.42 0.00 197.92 62.50	24.80 0.00 24.80 87.30	87.30
3137EAET2	FHLMC Note 0.125% Due 07/25/2022	07/21/2020 07/23/2020 170,000.00	169,923.37 0.00 0.00 169,939.64	21.25 0.00 38.96 17.71	16.27 0.00 16.27 33.98	33.98
3137EAEV7	FHLMC Note 0.25% Due 08/24/2023	08/19/2020 08/21/2020 300,000.00	299,849.23 0.00 0.00 299,857.87	14.58 0.00 77.08 62.50	8.64 0.00 8.64 71.14	71.14

Income Earned

As of March 31, 2022



CUSIP	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
3137EAEW5	FHLMC Note 0.25% Due 09/08/2023	09/11/2020 09/14/2020 300,000.00	300,047.48 0.00 0.00 300,044.83	360.42 375.00 47.92 62.50	0.00 2.65 (2.65) 59.85	59.85
3137EAEY1	FHLMC Note 0.125% Due 10/16/2023	10/14/2020 10/16/2020 225,000.00	224,544.74 0.00 0.00 224,568.50	105.47 0.00 128.91 23.44	23.76 0.00 23.76 47.20	47.20
3137EAEZ8	FHLMC Note 0.25% Due 11/06/2023	11/03/2020 11/05/2020 335,000.00	334,830.82 0.00 0.00 334,839.35	267.53 0.00 337.33 69.80	8.53 0.00 8.53 78.33	78.33
43813GAC5	Honda Auto Receivables Trust 2021-1 A3 0.27% Due 04/21/2025	02/17/2021 02/24/2021 80,000.00	79,999.02 0.00 0.00 79,999.06	6.00 18.00 6.00 18.00	0.04 0.00 0.04 18.04	18.04
43813KAC6	Honda Auto Receivables Trust 2020-3 A3 0.37% Due 10/18/2024	09/22/2020 09/29/2020 85,000.00	84,993.16 0.00 0.00 84,993.50	11.36 26.14 11.36 26.14	0.34 0.00 0.34 26.48	26.48
43815BAC4	Honda Auto Receivables Trust 2022-1 A3 1.88% Due 05/15/2026	02/15/2022 02/23/2022 165,000.00	164,975.31 0.00 0.00 164,975.96	68.93 189.57 137.87 258.51	0.65 0.00 0.65 259.16	259.16
43815GAC3	Honda Auto Receivables Trust 2021-4 A3 0.88% Due 01/21/2026	11/16/2021 11/24/2021 85,000.00	84,983.55 0.00 0.00 84,984.02	20.78 62.33 20.78 62.33	0.47 0.00 0.47 62.80	62.80
43815NAC8	Honda Auto Receivables Trust 2019-3 A3 1.78% Due 08/15/2023	08/20/2019 08/27/2019 40,973.26	47,006.66 0.00 6,033.47 40,973.21	37.19 69.73 32.41 64.95	0.02 0.00 0.02 64.97	64.97
4581X0DZ8	Inter-American Dev Bank Note 0.5% Due 09/23/2024	09/15/2021 09/23/2021 260,000.00	259,835.51 0.00 0.00 259,840.95	570.56 650.00 28.89 108.33	5.44 0.00 5.44 113.77	113.77

Income Earned

As of March 31, 2022



CUSIP	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
459058GQ0	Intl. Bank Recon & Development Note 2.5% Due 03/19/2024	01/26/2021 01/28/2021 225,000.00	235,285.02 0.00 0.00 234,859.34	2,531.25 2,812.50 187.50 468.75	0.00 425.68 (425.68) 43.07	43.07
459058JM6	Intl. Bank Recon & Development Note 0.25% Due 11/24/2023	11/17/2020 11/24/2020 165,000.00	164,794.93 0.00 0.00 164,804.97	111.15 0.00 145.52 34.37	10.04 0.00 10.04 44.41	44.41
459200JX0	IBM Corp Note 2.85% Due 05/13/2022	05/16/2019 05/20/2019 200,000.00	200,020.11 0.00 0.00 200,011.57	1,710.00 0.00 2,185.00 475.00	0.00 8.54 (8.54) 466.46	466.46
45950KCR9	International Finance Corp Note 1.375% Due 10/16/2024	07/12/2021 07/14/2021 160,000.00	163,472.13 0.00 0.00 163,360.01	825.00 0.00 1,008.33 183.33	0.00 112.12 (112.12) 71.21	71.21
46647PAH9	JP Morgan Chase & Co Callable Note 2X 3/1/2024 3.22% Due 03/01/2025	Various Various 500,000.00	521,714.48 0.00 0.00 520,793.62	8,050.00 8,050.00 1,341.67 1,341.67	0.00 920.86 (920.86) 420.81	420.81
47787JAC2	John Deere Owner Trust 2022-A A3 2.32% Due 09/16/2026	03/10/2022 03/16/2022 130,000.00	0.00 129,971.24 0.00 129,971.60	0.00 0.00 125.67 125.67	0.36 0.00 0.36 126.03	126.03
47788UAC6	John Deere Owner Trust 2021-A A3 0.36% Due 09/15/2025	03/02/2021 03/10/2021 60,000.00	59,991.59 0.00 0.00 59,991.86	9.60 18.00 9.60 18.00	0.27 0.00 0.27 18.27	18.27
47789JAD8	John Deere Owner Trust 2019-A A3 2.91% Due 07/17/2023	Various Various 35,366.97	49,791.08 0.00 14,208.09 35,492.47	64.12 120.22 45.74 101.84	0.00 90.52 (90.52) 11.32	11.32
47789QAC4	John Deere Owner Trust 2021-B A3 0.52% Due 03/16/2026	07/13/2021 07/21/2021 70,000.00	69,994.80 0.00 0.00 69,994.95	16.18 30.33 16.18 30.33	0.15 0.00 0.15 30.48	30.48

Income Earned

As of March 31, 2022



CUSIP	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
58769KAD6	Mercedes-Benz Auto Lease Trust 2021-B A3 0.4% Due 11/15/2024	06/22/2021 06/29/2021 80,000.00	79,995.55 0.00 0.00 79,995.75	14.22 26.67 14.22 26.67	0.20 0.00 0.20 26.87	26.87
594918BX1	Microsoft Callable Note Cont 12/6/2023 2.875% Due 02/06/2024	03/05/2020 03/09/2020 200,000.00	206,284.86 0.00 0.00 205,982.79	399.31 0.00 878.47 479.16	0.00 302.07 (302.07) 177.09	177.09
65479JAD5	Nissan Auto Receivables Owner 2019-C A3 1.93% Due 07/15/2024	10/16/2019 10/23/2019 58,809.24	64,522.61 0.00 5,715.08 58,807.74	55.35 103.78 50.45 98.88	0.21 0.00 0.21 99.09	99.09
69371RR40	Paccar Financial Corp Note 0.5% Due 08/09/2024	08/03/2021 08/09/2021 80,000.00	79,964.84 0.00 0.00 79,966.06	24.44 0.00 57.78 33.34	1.22 0.00 1.22 34.56	34.56
69371RR57	Paccar Financial Corp Note 0.9% Due 11/08/2024	11/02/2021 11/08/2021 175,000.00	174,990.58 0.00 0.00 174,990.88	494.38 0.00 625.63 131.25	0.30 0.00 0.30 131.55	131.55
747525AR4	Qualcomm Inc Callable Note Cont 12/30/2022 2.6% Due 01/30/2023	Various Various 500,000.00	508,171.91 0.00 0.00 507,338.59	1,119.45 0.00 2,202.78 1,083.33	0.00 833.32 (833.32) 250.01	250.01
78015K7C2	Royal Bank of Canada Note 2.25% Due 11/01/2024	Various Various 500,000.00	518,013.83 0.00 0.00 517,441.67	3,750.00 0.00 4,687.51 937.51	0.00 572.16 (572.16) 365.35	365.35
79466LAG9	Salesforce.com Inc Callable Note Cont 7/15/2022 0.625% Due 07/15/2024	06/29/2021 07/12/2021 35,000.00	34,985.92 0.00 0.00 34,986.42	27.95 0.00 46.18 18.23	0.50 0.00 0.50 18.73	18.73
808513BN4	Charles Schwab Corp Callable Note Cont 2/18/2024 0.75% Due 03/18/2024	Various Various 245,000.00	245,792.95 0.00 0.00 245,758.72	831.98 918.75 66.36 153.13	1.35 35.58 (34.23) 118.90	118.90

Income Earned

As of March 31, 2022



CUSIP	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
857477BR3	State Street Bank Callable Note Cont 2/6/2025 1.746% Due 02/06/2026	02/02/2022 02/07/2022 90,000.00	90,000.00 0.00 0.00 90,000.00	104.76 0.00 235.71 130.95	0.00 0.00 0.00 130.95	130.95
89114QCB2	Toronto Dominion Bank Note 3.25% Due 03/11/2024	Various Various 500,000.00	517,035.45 0.00 0.00 516,322.77	7,673.61 8,125.00 902.78 1,354.17	0.00 712.68 (712.68) 641.49	641.49
89231PAD0	Toyota Auto Receivables Trust 2018-D A3 3.18% Due 03/15/2023	08/29/2019 08/30/2019 3,464.86	9,752.06 0.00 6,226.50 3,484.79	13.70 25.68 4.90 16.88	0.00 40.77 (40.77) (23.89)	(23.89)
89232HAC9	Toyota Auto Receivable Own 2020-A A3 1.66% Due 05/15/2024	07/06/2020 07/08/2020 142,695.23	157,315.78 0.00 12,659.88 144,426.86	114.62 214.91 105.28 205.57	0.00 229.04 (229.04) (23.47)	(23.47)
89236TEL5	Toyota Motor Credit Corp Note 2.7% Due 01/11/2023	04/25/2019 04/29/2019 200,000.00	199,966.37 0.00 0.00 199,969.67	750.00 0.00 1,200.00 450.00	3.30 0.00 3.30 453.30	453.30
89236TJH9	Toyota Motor Credit Corp Note 0.5% Due 06/18/2024	12/06/2021 12/08/2021 300,000.00	296,095.77 0.00 0.00 296,239.86	304.17 0.00 429.17 125.00	144.09 0.00 144.09 269.09	269.09
89236XAC0	Toyota Auto Receivables 2020-D A3 0.35% Due 01/15/2025	10/06/2020 10/13/2020 70,000.00	69,991.19 0.00 0.00 69,991.45	10.89 20.42 10.89 20.42	0.26 0.00 0.26 20.68	20.68
89238JAC9	Toyota Auto Receivables Trust 2021-D A3 0.71% Due 04/15/2026	11/09/2021 11/15/2021 65,000.00	64,998.74 0.00 0.00 64,998.78	20.51 38.46 20.51 38.46	0.04 0.00 0.04 38.50	38.50
90331HNV1	US Bank NA Callable Note Cont 6/23/2023 3.4% Due 07/24/2023	05/17/2019 05/21/2019 250,000.00	252,146.52 0.00 0.00 252,007.60	873.61 0.00 1,581.94 708.33	0.00 138.92 (138.92) 569.41	569.41

Income Earned

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CUSIP	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
9128284Z0	US Treasury Note 2.75% Due 08/31/2025	Various Various 750,000.00	795,462.38 0.00 0.00 794,360.48	56.05 0.00 1,793.48 1,737.43	0.00 1,101.90 (1,101.90) 635.53	635.53
9128286L9	US Treasury Note 2.25% Due 03/31/2026	02/25/2022 02/28/2022 750,000.00	760,071.38 0.00 0.00 759,861.98	7,046.70 8,437.50 46.11 1,436.91	0.00 209.40 (209.40) 1,227.51	1,227.51
912828B66	US Treasury Note 2.75% Due 02/15/2024	02/15/2022 02/16/2022 750,000.00	766,948.14 0.00 0.00 766,214.35	797.65 0.00 2,563.88 1,766.23	0.00 733.79 (733.79) 1,032.44	1,032.44
912828M80	US Treasury Note 2% Due 11/30/2022	Various Various 750,000.00	757,006.37 0.00 0.00 756,213.69	3,750.00 0.00 5,027.47 1,277.47	0.00 792.68 (792.68) 484.79	484.79
912828R36	US Treasury Note 1.625% Due 05/15/2026	10/14/2021 10/15/2021 250,000.00	256,563.06 0.00 0.00 256,430.61	1,189.57 0.00 1,537.47 347.90	0.00 132.45 (132.45) 215.45	215.45
912828T26	US Treasury Note 1.375% Due 09/30/2023	Various Various 750,000.00	753,912.13 0.00 0.00 753,702.32	4,306.32 5,156.25 28.18 878.11	136.37 346.18 (209.81) 668.30	668.30
912828U24	US Treasury Note 2% Due 11/15/2026	03/29/2022 03/30/2022 625,000.00	0.00 609,912.11 0.00 609,929.95	0.00 (4,661.60) 4,730.66 69.06	17.84 0.00 17.84 86.90	86.90
912828V80	US Treasury Note 2.25% Due 01/31/2024	Various Various 750,000.00	770,122.93 0.00 0.00 769,233.05	1,351.87 0.00 2,796.96 1,445.09	0.00 889.88 (889.88) 555.21	555.21
912828VB3	US Treasury Note 1.75% Due 05/15/2023	Various Various 750,000.00	758,609.36 0.00 0.00 758,002.79	3,843.23 0.00 4,967.19 1,123.96	0.00 606.57 (606.57) 517.39	517.39

Income Earned

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CUSIP	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
912828W71	US Treasury Note 2.125% Due 03/31/2024	Various Various 750,000.00	772,568.51 0.00 0.00 771,649.17	6,655.22 7,968.75 43.55 1,357.08	0.00 919.34 (919.34) 437.74	437.74
912828WJ5	US Treasury Note 2.5% Due 05/15/2024	Various Various 750,000.00	772,671.49 0.00 0.00 771,799.52	5,490.33 0.00 7,096.00 1,605.67	0.00 871.97 (871.97) 733.70	733.70
912828Y87	US Treasury Note 1.75% Due 07/31/2024	01/31/2020 01/31/2020 300,000.00	302,796.33 0.00 0.00 302,698.15	420.58 0.00 870.17 449.59	0.00 98.18 (98.18) 351.41	351.41
912828YG9	US Treasury Note 1.625% Due 09/30/2026	12/28/2021 12/29/2021 300,000.00	305,107.71 0.00 0.00 305,013.12	2,035.71 2,437.50 13.32 415.11	0.00 94.59 (94.59) 320.52	320.52
912828YW4	US Treasury Note 1.625% Due 12/15/2022	02/15/2022 02/16/2022 750,000.00	753,672.68 0.00 0.00 753,278.73	2,544.64 0.00 3,582.59 1,037.95	0.00 393.95 (393.95) 644.00	644.00
912828Z52	US Treasury Note 1.375% Due 01/31/2025	02/17/2022 02/18/2022 750,000.00	742,895.51 0.00 0.00 743,101.92	826.14 0.00 1,709.25 883.11	206.41 0.00 206.41 1,089.52	1,089.52
912828ZD5	US Treasury Note 0.5% Due 03/15/2023	12/28/2021 12/29/2021 325,000.00	325,087.28 0.00 0.00 325,080.14	749.65 812.50 75.07 137.92	0.00 7.14 (7.14) 130.78	130.78
912828ZF0	US Treasury Note 0.5% Due 03/31/2025	03/25/2021 03/29/2021 350,000.00	349,158.20 0.00 0.00 349,181.38	730.77 875.00 4.78 149.01	23.18 0.00 23.18 172.19	172.19
912828ZT0	US Treasury Note 0.25% Due 05/31/2025	02/25/2021 02/26/2021 365,000.00	360,918.64 0.00 0.00 361,025.23	228.13 0.00 305.84 77.71	106.59 0.00 106.59 184.30	184.30

Income Earned

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CUSIP	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
912828ZU7	US Treasury Note 0.25% Due 06/15/2023	02/15/2022 02/16/2022 750,000.00	739,422.80 0.00 0.00 740,118.96	391.48 0.00 551.17 159.69	696.16 0.00 696.16 855.85	855.85
91282CAZ4	US Treasury Note 0.375% Due 11/30/2025	Various Various 750,000.00	736,102.18 0.00 0.00 736,416.65	703.14 0.00 942.65 239.51	314.47 0.00 314.47 553.98	553.98
91282CBV2	US Treasury Note 0.375% Due 04/15/2024	Various Various 500,000.00	500,099.16 0.00 0.00 500,095.20	705.70 0.00 865.39 159.69	5.06 9.02 (3.96) 155.73	155.73
91282CCG4	US Treasury Note 0.25% Due 06/15/2024	06/17/2021 06/18/2021 400,000.00	398,384.68 0.00 0.00 398,444.51	208.79 0.00 293.96 85.17	59.83 0.00 59.83 145.00	145.00
91282CCT6	US Treasury Note 0.375% Due 08/15/2024	08/25/2021 08/26/2021 400,000.00	399,262.88 0.00 0.00 399,288.32	58.01 0.00 186.46 128.45	25.44 0.00 25.44 153.89	153.89
91282CDH1	US Treasury Note 0.75% Due 11/15/2024	11/18/2021 11/19/2021 750,000.00	748,300.14 0.00 0.00 748,353.37	1,647.10 0.00 2,128.80 481.70	53.23 0.00 53.23 534.93	534.93
91324PEB4	United Health Group Inc Callable Note Cont 5/15/2022 0.55% Due 05/15/2024	11/24/2021 11/29/2021 500,000.00	494,399.29 0.00 0.00 494,614.70	809.72 0.00 1,038.89 229.17	215.41 0.00 215.41 444.58	444.58
92290BAA9	Verizon Owner Trust 2020-B A 0.47% Due 02/20/2025	08/04/2020 08/12/2020 120,000.00	119,983.43 0.00 0.00 119,983.90	17.23 47.00 17.23 47.00	0.47 0.00 0.47 47.47	47.47
92348AAA3	Verizon Owner Trust 2019-C A1A 1.94% Due 04/22/2024	10/01/2019 10/08/2019 43,220.16	48,710.10 0.00 5,491.72 43,218.65	28.88 78.75 25.62 75.49	0.27 0.00 0.27 75.76	75.76



CUSIP	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
931142ER0	Wal-Mart Stores Callable Note Cont 08/17/2026 1.05% Due 09/17/2026	09/08/2021 09/17/2021 40,000.00	39,931.23 0.00 0.00 39,932.51	191.33 210.00 16.33 35.00	1.28 0.00 1.28 36.28	36.28
			28,451,504.15 869,827.45 53,325.48	101,642.96 57,491.65 79,730.95	2,949.64 13,237.68 (10,288.04)	
Total Fixed Income			29,058,207.96	35,579.64	25,291.60	25,291.60
CASH & EQUIVALENT						
06367CDX2	Bank of Montreal Chicago Yankee CD 0.24% Due 04/06/2022	11/23/2021 11/23/2021 500,000.00	500,019.83 0.00 0.00 500,002.75	326.67 0.00 430.00 103.33	0.00 17.08 (17.08) 86.25	86.25
06417MQY4	Bank of Nova Scotia Houston Yankee CD 0.19% Due 07/28/2022	11/18/2021 11/19/2021 600,000.00	599,826.09 0.00 0.00 599,862.27	684.00 0.00 782.17 98.17	36.18 0.00 36.18 134.35	134.35
31846V203	First American Govt Obligation Fund Class Y	Various Various 34,370.17	793,369.89 115,489.33 874,489.05 34,370.17	0.00 10.60 0.00 10.60	0.00 0.00 0.00 10.60	10.60
55380TXW5	MUFG Bank Yankee CD 0.3% Due 10/25/2022	10/27/2021 10/28/2021 500,000.00	499,933.98 0.00 0.00 499,942.58	570.83 0.00 700.00 129.17	8.60 0.00 8.60 137.77	137.77
86959RSN1	Svenska Handelsbanken NY Yankee CD 0.2% Due 08/23/2022	10/27/2021 10/27/2021 500,000.00	499,830.02 0.00 0.00 499,860.13	527.78 0.00 613.89 86.11	30.11 0.00 30.11 116.22	116.22
			2,892,979.81 115,489.33 874,489.05	2,109.28 10.60 2,526.06	74.89 17.08 57.81	
Total Cash & Equivalent			2,134,370.17	427.38	485.19	485.19

Income Earned

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CUSIP	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
LOCAL AGENCY INVESTMENT FUND						
90LAIF\$00	Local Agency Investment Fund	Various	12,696,899.16	5,175.22	0.00	3,927.37
	State Pool	Various	0.00	0.00	0.00	
		12,696,899.16	0.00	9,102.59	0.00	
			12,696,899.16	3,927.37	3,927.37	
			12,696,899.16	5,175.22	0.00	
			0.00	0.00	0.00	
			0.00	9,102.59	0.00	
Total Local Agency Investment Fund		12,696,899.16	12,696,899.16	3,927.37	3,927.37	3,927.37
INVESTMENT POOL						
09CATR\$05	CalTrust	Various	6,576,659.08	0.00	0.00	3,716.44
	Medium Term Fund	Various	3,716.44	3,716.44	0.00	
		654,127.73	0.00	0.00	0.00	
			6,580,375.52	3,716.44	3,716.44	
			6,576,659.08	0.00	0.00	
			3,716.44	3,716.44	0.00	
			0.00	0.00	0.00	
Total Investment Pool		654,127.73	6,580,375.52	3,716.44	3,716.44	3,716.44
			50,618,042.20	108,927.46	3,024.53	
			989,033.22	61,218.69	13,254.76	
			927,814.53	91,359.60	(10,230.23)	
TOTAL PORTFOLIO		44,543,605.02	50,669,030.66	43,650.83	33,420.60	33,420.60

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
04/06/2022	Maturity	06367CDX2	500,000.00	Bank of Montreal Chicago Yankee CD	500,000.00	446.67	500,446.67
04/08/2022	Maturity	3133ELWD2	285,000.00	FFCB Note 0.375% Due 4/8/2022	285,000.00	534.38	285,534.38
04/15/2022	Dividend	90LAIF\$00	1,142,553,473.25	Local Agency Investment Fund State Pool	0.00	9,102.60	9,102.60
04/15/2022	Interest	91282CBV2	500,000.00	US Treasury Note 0.375% Due 4/15/2024	0.00	937.50	937.50
04/15/2022	Paydown	43815BAC4	165,000.00	Honda Auto Receivables Trust 2022-1 A3 1.88% Due 5/15/2026	0.00	258.50	258.50
04/15/2022	Paydown	47788UAC6	60,000.00	John Deere Owner Trust 2021-A A3 0.36% Due 9/15/2025	0.00	18.00	18.00
04/15/2022	Paydown	47789JAD8	35,366.97	John Deere Owner Trust 2019-A A3 2.91% Due 7/17/2023	7,039.99	85.77	7,125.76
04/15/2022	Paydown	89238JAC9	65,000.00	Toyota Auto Receivables Trust 2021-D A3 0.71% Due 4/15/2026	0.00	38.46	38.46
04/15/2022	Paydown	43815NAC8	40,973.26	Honda Auto Receivables Trust 2019-3 A3 1.78% Due 8/15/2023	7,787.41	60.78	7,848.19
04/15/2022	Paydown	65479JAD5	58,809.24	Nissan Auto Receivables Owner 2019-C A3 1.93% Due 7/15/2024	2,037.23	94.58	2,131.81
04/15/2022	Paydown	89232HAC9	142,695.23	Toyota Auto Receivable Own 2020-A A3 1.66% Due 5/15/2024	8,000.00	197.40	8,197.40
04/15/2022	Paydown	47787JAC2	130,000.00	John Deere Owner Trust 2022-A A3 2.32% Due 9/16/2026	0.00	242.96	242.96
04/15/2022	Paydown	89231PAD0	3,464.86	Toyota Auto Receivables Trust 2018-D A3 3.18% Due 3/15/2023	285.93	9.18	295.11
04/15/2022	Paydown	89236XAC0	70,000.00	Toyota Auto Receivables 2020-D A3 0.35% Due 1/15/2025	2,174.16	20.42	2,194.58
04/15/2022	Paydown	47789QAC4	70,000.00	John Deere Owner Trust 2021-B A3 0.52% Due 3/16/2026	0.00	30.33	30.33
04/15/2022	Paydown	58769KAD6	80,000.00	Mercedes-Benz Auto Lease Trust 2021-B A3 0.4% Due 11/15/2024	0.00	26.67	26.67
04/16/2022	Interest	3137EAEY1	225,000.00	FHLMC Note 0.125% Due 10/16/2023	0.00	140.63	140.63

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
04/16/2022	Interest	45950KCR9	160,000.00	International Finance Corp Note 1.375% Due 10/16/2024	0.00	1,100.00	1,100.00
04/18/2022	Paydown	43813KAC6	85,000.00	Honda Auto Receivables Trust 2020-3 A3 0.37% Due 10/18/2024	4,237.56	26.21	4,263.77
04/19/2022	Paydown	3137BM6P6	0.00	FHLMC K721 A2 3.09% Due 8/25/2022	2,990.74	261.80	3,252.54
04/20/2022	Paydown	92348AAA3	43,220.16	Verizon Owner Trust 2019-C A1A 1.94% Due 4/22/2024	1,616.04	69.87	1,685.91
04/20/2022	Paydown	92290BAA9	120,000.00	Verizon Owner Trust 2020-B A 0.47% Due 2/20/2025	3,405.80	47.00	3,452.80
04/21/2022	Paydown	43813GAC5	80,000.00	Honda Auto Receivables Trust 2021-1 A3 0.27% Due 4/21/2025	0.00	18.00	18.00
04/21/2022	Paydown	43815GAC3	85,000.00	Honda Auto Receivables Trust 2021-4 A3 0.88% Due 1/21/2026	0.00	62.33	62.33
04/25/2022	Interest	3137BM6P6	98,678.24	FHLMC K721 A2 3.09% Due 8/25/2022	0.00	254.10	254.10
04/25/2022	Paydown	05601XAC3	85,000.00	BMW Vehicle Lease Trust 2022-1 A3 1.1% Due 3/25/2025	0.00	77.92	77.92
04/25/2022	Paydown	3137B4GY6	275,000.00	FHLMC K032 A2 3.31% Due 5/25/2023	0.00	758.54	758.54
04/25/2022	Paydown	09690AAC7	50,000.00	BMW Vehicle Lease Trust 2021-2 A3 0.33% Due 12/26/2024	0.00	13.75	13.75
APR 2022					824,574.86	14,934.35	839,509.21
05/01/2022	Interest	78015K7C2	500,000.00	Royal Bank of Canada Note 2.25% Due 11/1/2024	0.00	5,625.00	5,625.00
05/03/2022	Interest	037833AK6	200,000.00	Apple Inc Note 2.4% Due 5/3/2023	0.00	2,400.00	2,400.00
05/05/2022	Interest	3137EAER6	305,000.00	FHLMC Note 0.375% Due 5/5/2023	0.00	571.88	571.88
05/06/2022	Interest	3137EAEZ8	335,000.00	FHLMC Note 0.25% Due 11/6/2023	0.00	418.75	418.75
05/06/2022	Maturity	3133ELYR9	325,000.00	FFCB Note 0.25% Due 5/6/2022	325,000.00	406.25	325,406.25

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
05/07/2022	Interest	3135G06G3	350,000.00	FNMA Note 0.5% Due 11/7/2025	0.00	875.00	875.00
05/08/2022	Interest	69371RR57	175,000.00	Paccar Financial Corp Note 0.9% Due 11/8/2024	0.00	787.50	787.50
05/12/2022	Interest	023135BW5	130,000.00	Amazon.com Inc Note 0.45% Due 5/12/2024	0.00	292.50	292.50
05/13/2022	Maturity	459200JX0	200,000.00	IBM Corp Note 2.85% Due 5/13/2022	200,000.00	2,850.00	202,850.00
05/15/2022	Interest	912828VB3	750,000.00	US Treasury Note 1.75% Due 5/15/2023	0.00	6,562.50	6,562.50
05/15/2022	Interest	912828R36	250,000.00	US Treasury Note 1.625% Due 5/15/2026	0.00	2,031.25	2,031.25
05/15/2022	Interest	912828WJ5	750,000.00	US Treasury Note 2.5% Due 5/15/2024	0.00	9,375.00	9,375.00
05/15/2022	Interest	91282CDH1	750,000.00	US Treasury Note 0.75% Due 11/15/2024	0.00	2,812.50	2,812.50
05/15/2022	Interest	912828U24	625,000.00	US Treasury Note 2% Due 11/15/2026	0.00	6,250.00	6,250.00
05/15/2022	Interest	91324PEB4	500,000.00	United Health Group Inc Callable Note Cont 5/15/2022 0.55% Due 5/15/2024	0.00	1,375.00	1,375.00
05/15/2022	Paydown	89231PAD0	3,464.86	Toyota Auto Receivables Trust 2018-D A3 3.18% Due 3/15/2023	286.44	8.42	294.86
05/15/2022	Paydown	89236XAC0	70,000.00	Toyota Auto Receivables 2020-D A3 0.35% Due 1/15/2025	2,167.94	19.78	2,187.72
05/15/2022	Paydown	58769KAD6	80,000.00	Mercedes-Benz Auto Lease Trust 2021-B A3 0.4% Due 11/15/2024	0.00	26.67	26.67
05/15/2022	Paydown	89232HAC9	142,695.23	Toyota Auto Receivable Own 2020-A A3 1.66% Due 5/15/2024	7,805.78	186.33	7,992.11
05/15/2022	Paydown	43815NAC8	40,973.26	Honda Auto Receivables Trust 2019-3 A3 1.78% Due 8/15/2023	7,405.23	49.23	7,454.46
05/15/2022	Paydown	47787JAC2	130,000.00	John Deere Owner Trust 2022-A A3 2.32% Due 9/16/2026	0.00	251.33	251.33

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
05/15/2022	Paydown	47789JAD8	35,366.97	John Deere Owner Trust 2019-A A3 2.91% Due 7/17/2023	7,056.66	68.69	7,125.35
05/15/2022	Paydown	65479JAD5	58,809.24	Nissan Auto Receivables Owner 2019-C A3 1.93% Due 7/15/2024	2,041.81	91.31	2,133.12
05/15/2022	Paydown	43815BAC4	165,000.00	Honda Auto Receivables Trust 2022-1 A3 1.88% Due 5/15/2026	0.00	258.50	258.50
05/15/2022	Paydown	47788UAC6	60,000.00	John Deere Owner Trust 2021-A A3 0.36% Due 9/15/2025	0.00	18.00	18.00
05/15/2022	Paydown	47789QAC4	70,000.00	John Deere Owner Trust 2021-B A3 0.52% Due 3/16/2026	0.00	30.33	30.33
05/15/2022	Paydown	89238JAC9	65,000.00	Toyota Auto Receivables Trust 2021-D A3 0.71% Due 4/15/2026	0.00	38.46	38.46
05/17/2022	Interest	14913R2L0	500,000.00	Caterpillar Financial Service Note 0.45% Due 5/17/2024	0.00	1,125.00	1,125.00
05/18/2022	Paydown	43813KAC6	85,000.00	Honda Auto Receivables Trust 2020-3 A3 0.37% Due 10/18/2024	4,238.87	24.90	4,263.77
05/19/2022	Paydown	3137BM6P6	98,678.24	FHLMC K721 A2 3.09% Due 8/25/2022	25,863.04	53.28	25,916.32
05/20/2022	Paydown	92348AAA3	43,220.16	Verizon Owner Trust 2019-C A1A 1.94% Due 4/22/2024	1,619.67	67.26	1,686.93
05/20/2022	Paydown	92290BAA9	120,000.00	Verizon Owner Trust 2020-B A 0.47% Due 2/20/2025	3,407.13	45.67	3,452.80
05/21/2022	Paydown	43815GAC3	85,000.00	Honda Auto Receivables Trust 2021-4 A3 0.88% Due 1/21/2026	0.00	62.33	62.33
05/21/2022	Paydown	43813GAC5	80,000.00	Honda Auto Receivables Trust 2021-1 A3 0.27% Due 4/21/2025	0.00	18.00	18.00
05/22/2022	Interest	3135G04Q3	245,000.00	FNMA Note 0.25% Due 5/22/2023	0.00	306.25	306.25
05/24/2022	Interest	459058JM6	165,000.00	Intl. Bank Recon & Development Note 0.25% Due 11/24/2023	0.00	206.25	206.25
05/25/2022	Interest	3137BM6P6	98,678.24	FHLMC K721 A2 3.09% Due 8/25/2022	0.00	187.50	187.50
05/25/2022	Paydown	05601XAC3	85,000.00	BMW Vehicle Lease Trust 2022-1 A3 1.1% Due 3/25/2025	0.00	77.92	77.92

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
05/25/2022	Paydown	09690AAC7	50,000.00	BMW Vehicle Lease Trust 2021-2 A3 0.33% Due 12/26/2024	0.00	13.75	13.75
05/25/2022	Paydown	3137B4GY6	275,000.00	FHLMC K032 A2 3.31% Due 5/25/2023	0.00	758.54	758.54
05/31/2022	Interest	91282CAZ4	750,000.00	US Treasury Note 0.375% Due 11/30/2025	0.00	1,406.25	1,406.25
05/31/2022	Interest	912828M80	750,000.00	US Treasury Note 2% Due 11/30/2022	0.00	7,500.00	7,500.00
05/31/2022	Interest	912828ZT0	365,000.00	US Treasury Note 0.25% Due 5/31/2025	0.00	456.25	456.25
MAY 2022					586,892.57	55,989.33	642,881.90
06/08/2022	Interest	3130A0F70	350,000.00	FHLB Note 3.375% Due 12/8/2023	0.00	5,906.25	5,906.25
06/08/2022	Maturity	3134GVJ66	350,000.00	FHLMC Note 0.25% Due 6/8/2022	350,000.00	437.50	350,437.50
06/14/2022	Interest	3130A1XJ2	155,000.00	FHLB Note 2.875% Due 6/14/2024	0.00	2,228.13	2,228.13
06/15/2022	Interest	912828YW4	750,000.00	US Treasury Note 1.625% Due 12/15/2022	0.00	6,093.75	6,093.75
06/15/2022	Interest	912828ZU7	750,000.00	US Treasury Note 0.25% Due 6/15/2023	0.00	937.50	937.50
06/15/2022	Interest	91282CCG4	400,000.00	US Treasury Note 0.25% Due 6/15/2024	0.00	500.00	500.00
06/15/2022	Paydown	58769KAD6	80,000.00	Mercedes-Benz Auto Lease Trust 2021-B A3 0.4% Due 11/15/2024	0.00	26.67	26.67
06/15/2022	Paydown	89232HAC9	142,695.23	Toyota Auto Receivable Own 2020-A A3 1.66% Due 5/15/2024	7,610.73	175.53	7,786.26
06/15/2022	Paydown	47787JAC2	130,000.00	John Deere Owner Trust 2022-A A3 2.32% Due 9/16/2026	0.00	251.33	251.33
06/15/2022	Paydown	47788UAC6	60,000.00	John Deere Owner Trust 2021-A A3 0.36% Due 9/15/2025	0.00	18.00	18.00
06/15/2022	Paydown	47789JAD8	35,366.97	John Deere Owner Trust 2019-A A3 2.91% Due 7/17/2023	7,073.35	51.58	7,124.93

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
06/15/2022	Paydown	89238JAC9	65,000.00	Toyota Auto Receivables Trust 2021-D A3 0.71% Due 4/15/2026	0.00	38.46	38.46
06/15/2022	Paydown	43815NAC8	40,973.26	Honda Auto Receivables Trust 2019-3 A3 1.78% Due 8/15/2023	7,022.13	38.24	7,060.37
06/15/2022	Paydown	47789QAC4	70,000.00	John Deere Owner Trust 2021-B A3 0.52% Due 3/16/2026	0.00	30.33	30.33
06/15/2022	Paydown	65479JAD5	58,809.24	Nissan Auto Receivables Owner 2019-C A3 1.93% Due 7/15/2024	2,046.41	88.02	2,134.43
06/15/2022	Paydown	43815BAC4	165,000.00	Honda Auto Receivables Trust 2022-1 A3 1.88% Due 5/15/2026	0.00	258.50	258.50
06/15/2022	Paydown	89231PAD0	3,464.86	Toyota Auto Receivables Trust 2018-D A3 3.18% Due 3/15/2023	286.94	7.67	294.61
06/15/2022	Paydown	89236XAC0	70,000.00	Toyota Auto Receivables 2020-D A3 0.35% Due 1/15/2025	2,161.64	19.15	2,180.79
06/18/2022	Interest	89236TJH9	300,000.00	Toyota Motor Credit Corp Note 0.5% Due 6/18/2024	0.00	750.00	750.00
06/18/2022	Paydown	43813KAC6	85,000.00	Honda Auto Receivables Trust 2020-3 A3 0.37% Due 10/18/2024	4,240.18	23.59	4,263.77
06/19/2022	Paydown	3137BM6P6	98,678.24	FHLMC K721 A2 3.09% Due 8/25/2022	7,304.54	15.05	7,319.59
06/20/2022	Paydown	92348AAA3	43,220.16	Verizon Owner Trust 2019-C A1A 1.94% Due 4/22/2024	1,623.32	64.64	1,687.96
06/20/2022	Paydown	92290BAA9	120,000.00	Verizon Owner Trust 2020-B A 0.47% Due 2/20/2025	3,408.47	44.33	3,452.80
06/21/2022	Paydown	43815GAC3	85,000.00	Honda Auto Receivables Trust 2021-4 A3 0.88% Due 1/21/2026	0.00	62.33	62.33
06/21/2022	Paydown	43813GAC5	80,000.00	Honda Auto Receivables Trust 2021-1 A3 0.27% Due 4/21/2025	0.00	18.00	18.00
06/25/2022	Interest	3137BM6P6	98,678.24	FHLMC K721 A2 3.09% Due 8/25/2022	0.00	168.69	168.69
06/25/2022	Paydown	05601XAC3	85,000.00	BMW Vehicle Lease Trust 2022-1 A3 1.1% Due 3/25/2025	0.00	77.92	77.92
06/25/2022	Paydown	3137B4GY6	275,000.00	FHLMC K032 A2 3.31% Due 5/25/2023	0.00	758.54	758.54

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
06/25/2022	Paydown	09690AAC7	50,000.00	BMW Vehicle Lease Trust 2021-2 A3 0.33% Due 12/26/2024	0.00	13.75	13.75
06/26/2022	Interest	3137EAES4	300,000.00	FHLMC Note 0.25% Due 6/26/2023	0.00	375.00	375.00
JUN 2022					392,777.71	19,478.45	412,256.16
07/06/2022	Interest	3133ENKS8	750,000.00	FFCB Note 1.125% Due 1/6/2025	0.00	4,101.57	4,101.57
07/10/2022	Interest	3135G05G4	250,000.00	FNMA Note 0.25% Due 7/10/2023	0.00	312.50	312.50
07/11/2022	Interest	89236TEL5	200,000.00	Toyota Motor Credit Corp Note 2.7% Due 1/11/2023	0.00	2,700.00	2,700.00
07/13/2022	Interest	037833DE7	200,000.00	Apple Inc Callable Note Cont 12/13/2022 2.4% Due 1/13/2023	0.00	2,400.00	2,400.00
07/15/2022	Interest	79466LAG9	35,000.00	Salesforce.com Inc Callable Note Cont 7/15/2022 0.625% Due 7/15/2024	0.00	109.38	109.38
07/15/2022	Paydown	47789JAD8	35,366.97	John Deere Owner Trust 2019-A A3 2.91% Due 7/17/2023	7,090.09	34.43	7,124.52
07/15/2022	Paydown	47788UAC6	60,000.00	John Deere Owner Trust 2021-A A3 0.36% Due 9/15/2025	0.00	18.00	18.00
07/15/2022	Paydown	47789QAC4	70,000.00	John Deere Owner Trust 2021-B A3 0.52% Due 3/16/2026	0.00	30.33	30.33
07/15/2022	Paydown	58769KAD6	80,000.00	Mercedes-Benz Auto Lease Trust 2021-B A3 0.4% Due 11/15/2024	0.00	26.67	26.67
07/15/2022	Paydown	89238JAC9	65,000.00	Toyota Auto Receivables Trust 2021-D A3 0.71% Due 4/15/2026	0.00	38.46	38.46
07/15/2022	Paydown	43815NAC8	40,973.26	Honda Auto Receivables Trust 2019-3 A3 1.78% Due 8/15/2023	6,638.09	27.83	6,665.92
07/15/2022	Paydown	47787JAC2	130,000.00	John Deere Owner Trust 2022-A A3 2.32% Due 9/16/2026	0.00	251.33	251.33
07/15/2022	Paydown	65479JAD5	58,809.24	Nissan Auto Receivables Owner 2019-C A3 1.93% Due 7/15/2024	2,051.01	84.73	2,135.74
07/15/2022	Paydown	89231PAD0	3,464.86	Toyota Auto Receivables Trust 2018-D A3 3.18% Due 3/15/2023	287.46	6.90	294.36

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
07/15/2022	Paydown	89236XAC0	70,000.00	Toyota Auto Receivables 2020-D A3 0.35% Due 1/15/2025	2,155.28	18.52	2,173.80
07/15/2022	Paydown	43815BAC4	165,000.00	Honda Auto Receivables Trust 2022-1 A3 1.88% Due 5/15/2026	0.00	258.50	258.50
07/15/2022	Paydown	89232HAC9	142,695.23	Toyota Auto Receivable Own 2020-A A3 1.66% Due 5/15/2024	7,414.86	165.00	7,579.86
07/18/2022	Paydown	43813KAC6	85,000.00	Honda Auto Receivables Trust 2020-3 A3 0.37% Due 10/18/2024	4,241.48	22.29	4,263.77
07/19/2022	Paydown	3137BM6P6	98,678.24	FHLMC K721 A2 3.09% Due 8/25/2022	16,888.90	34.79	16,923.69
07/20/2022	Paydown	92290BAA9	120,000.00	Verizon Owner Trust 2020-B A 0.47% Due 2/20/2025	3,409.80	43.00	3,452.80
07/20/2022	Paydown	92348AAA3	43,220.16	Verizon Owner Trust 2019-C A1A 1.94% Due 4/22/2024	1,626.96	62.02	1,688.98
07/21/2022	Paydown	43813GAC5	80,000.00	Honda Auto Receivables Trust 2021-1 A3 0.27% Due 4/21/2025	0.00	18.00	18.00
07/21/2022	Paydown	43815GAC3	85,000.00	Honda Auto Receivables Trust 2021-4 A3 0.88% Due 1/21/2026	0.00	62.33	62.33
07/24/2022	Interest	90331HNV1	250,000.00	US Bank NA Callable Note Cont 6/23/2023 3.4% Due 7/24/2023	0.00	4,250.00	4,250.00
07/25/2022	Interest	3137BM6P6	98,678.24	FHLMC K721 A2 3.09% Due 8/25/2022	0.00	125.20	125.20
07/25/2022	Maturity	3137EAET2	170,000.00	FHLMC Note 0.125% Due 7/25/2022	170,000.00	106.25	170,106.25
07/25/2022	Paydown	05601XAC3	85,000.00	BMW Vehicle Lease Trust 2022-1 A3 1.1% Due 3/25/2025	0.00	77.92	77.92
07/25/2022	Paydown	09690AAC7	50,000.00	BMW Vehicle Lease Trust 2021-2 A3 0.33% Due 12/26/2024	0.00	13.75	13.75
07/25/2022	Paydown	3137B4GY6	275,000.00	FHLMC K032 A2 3.31% Due 5/25/2023	0.00	758.54	758.54
07/28/2022	Maturity	06417MQY4	600,000.00	Bank of Nova Scotia Houston Yankee CD 0.19% Due 7/28/2022	600,000.00	1,155.83	601,155.83
07/30/2022	Interest	747525AR4	500,000.00	Qualcomm Inc Callable Note Cont 12/30/2022 2.6% Due 1/30/2023	0.00	6,500.00	6,500.00

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
07/31/2022	Interest	912828Y87	300,000.00	US Treasury Note 1.75% Due 7/31/2024	0.00	2,625.00	2,625.00
07/31/2022	Interest	912828V80	750,000.00	US Treasury Note 2.25% Due 1/31/2024	0.00	8,437.50	8,437.50
07/31/2022	Interest	912828Z52	750,000.00	US Treasury Note 1.375% Due 1/31/2025	0.00	5,156.25	5,156.25
JUL 2022					821,803.93	40,032.82	861,836.75
08/06/2022	Interest	594918BX1	200,000.00	Microsoft Callable Note Cont 12/6/2023 2.875% Due 2/6/2024	0.00	2,875.00	2,875.00
08/06/2022	Interest	857477BR3	90,000.00	State Street Bank Callable Note Cont 2/6/2025 1.746% Due 2/6/2026	0.00	781.34	781.34
08/09/2022	Interest	69371RR40	80,000.00	Paccar Financial Corp Note 0.5% Due 8/9/2024	0.00	200.00	200.00
08/14/2022	Interest	3133ENPG9	415,000.00	FFCB Note 1.75% Due 2/14/2025	0.00	3,611.08	3,611.08
08/15/2022	Interest	912828B66	750,000.00	US Treasury Note 2.75% Due 2/15/2024	0.00	10,312.50	10,312.50
08/15/2022	Interest	91282CCT6	400,000.00	US Treasury Note 0.375% Due 8/15/2024	0.00	750.00	750.00
08/15/2022	Paydown	43815NAC8	40,973.26	Honda Auto Receivables Trust 2019-3 A3 1.78% Due 8/15/2023	6,253.14	17.98	6,271.12
08/15/2022	Paydown	65479JAD5	58,809.24	Nissan Auto Receivables Owner 2019-C A3 1.93% Due 7/15/2024	2,055.63	81.43	2,137.06
08/15/2022	Paydown	89232HAC9	142,695.23	Toyota Auto Receivable Own 2020-A A3 1.66% Due 5/15/2024	7,218.17	154.74	7,372.91
08/15/2022	Paydown	47789QAC4	70,000.00	John Deere Owner Trust 2021-B A3 0.52% Due 3/16/2026	0.00	30.33	30.33
08/15/2022	Paydown	58769KAD6	80,000.00	Mercedes-Benz Auto Lease Trust 2021-B A3 0.4% Due 11/15/2024	0.00	26.67	26.67
08/15/2022	Paydown	47787JAC2	130,000.00	John Deere Owner Trust 2022-A A3 2.32% Due 9/16/2026	0.00	251.33	251.33
08/15/2022	Paydown	89231PAD0	3,464.86	Toyota Auto Receivables Trust 2018-D A3 3.18% Due 3/15/2023	287.97	6.14	294.11

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
08/15/2022	Paydown	89236XAC0	70,000.00	Toyota Auto Receivables 2020-D A3 0.35% Due 1/15/2025	2,148.85	17.89	2,166.74
08/15/2022	Paydown	43815BAC4	165,000.00	Honda Auto Receivables Trust 2022-1 A3 1.88% Due 5/15/2026	0.00	258.50	258.50
08/15/2022	Paydown	47788UAC6	60,000.00	John Deere Owner Trust 2021-A A3 0.36% Due 9/15/2025	0.00	18.00	18.00
08/15/2022	Paydown	47789JAD8	35,366.97	John Deere Owner Trust 2019-A A3 2.91% Due 7/17/2023	7,106.88	17.23	7,124.11
08/15/2022	Paydown	89238JAC9	65,000.00	Toyota Auto Receivables Trust 2021-D A3 0.71% Due 4/15/2026	0.00	38.46	38.46
08/16/2022	Interest	06406FAD5	200,000.00	Bank of NY Mellon Corp Callable Note Cont 6/16/2023 2.2% Due 8/16/2023	0.00	2,200.00	2,200.00
08/18/2022	Paydown	43813KAC6	85,000.00	Honda Auto Receivables Trust 2020-3 A3 0.37% Due 10/18/2024	4,242.79	20.98	4,263.77
08/19/2022	Paydown	3137BM6P6	98,678.24	FHLMC K721 A2 3.09% Due 8/25/2022	22,912.04	47.20	22,959.24
08/20/2022	Paydown	92290BAA9	120,000.00	Verizon Owner Trust 2020-B A 0.47% Due 2/20/2025	3,411.14	41.66	3,452.80
08/20/2022	Paydown	92348AAA3	43,220.16	Verizon Owner Trust 2019-C A1A 1.94% Due 4/22/2024	1,630.62	59.39	1,690.01
08/21/2022	Paydown	43813GAC5	80,000.00	Honda Auto Receivables Trust 2021-1 A3 0.27% Due 4/21/2025	3,990.82	18.00	4,008.82
08/21/2022	Paydown	43815GAC3	85,000.00	Honda Auto Receivables Trust 2021-4 A3 0.88% Due 1/21/2026	0.00	62.33	62.33
08/23/2022	Maturity	86959RSN1	500,000.00	Svenska Handelsbanken NY Yankee CD 0.2% Due 8/23/2022	500,000.00	1,013.89	501,013.89
08/24/2022	Interest	3137EAEV7	300,000.00	FHLMC Note 0.25% Due 8/24/2023	0.00	375.00	375.00
08/25/2022	Interest	3137BM6P6	98,678.24	FHLMC K721 A2 3.09% Due 8/25/2022	0.00	66.20	66.20
08/25/2022	Paydown	05601XAC3	85,000.00	BMW Vehicle Lease Trust 2022-1 A3 1.1% Due 3/25/2025	0.00	77.92	77.92

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
08/25/2022	Paydown	09690AAC7	50,000.00	BMW Vehicle Lease Trust 2021-2 A3 0.33% Due 12/26/2024	0.00	13.75	13.75
08/25/2022	Paydown	3137B4GY6	275,000.00	FHLMC K032 A2 3.31% Due 5/25/2023	0.00	758.54	758.54
08/31/2022	Interest	9128284Z0	750,000.00	US Treasury Note 2.75% Due 8/31/2025	0.00	10,312.50	10,312.50
AUG 2022					561,258.05	34,515.98	595,774.03
09/01/2022	Interest	46647PAH9	500,000.00	JP Morgan Chase & Co Callable Note 2X 3/1/2024 3.22% Due 3/1/2025	0.00	8,050.00	8,050.00
09/07/2022	Interest	24422EWB1	130,000.00	John Deere Capital Corp Note 2.125% Due 3/7/2025	0.00	1,381.25	1,381.25
09/08/2022	Interest	3137EAEW5	300,000.00	FHLMC Note 0.25% Due 9/8/2023	0.00	375.00	375.00
09/08/2022	Maturity	24422ETV1	305,000.00	John Deere Capital Corp Note 2.15% Due 9/8/2022	305,000.00	3,278.75	308,278.75
09/10/2022	Interest	3130ADRG9	350,000.00	FHLB Note 2.75% Due 3/10/2023	0.00	4,812.50	4,812.50
09/11/2022	Interest	89114QCB2	500,000.00	Toronto Dominion Bank Note 3.25% Due 3/11/2024	0.00	8,125.00	8,125.00
09/12/2022	Interest	3135G0U43	350,000.00	FNMA Note 2.875% Due 9/12/2023	0.00	5,031.25	5,031.25
09/15/2022	Interest	912828ZD5	325,000.00	US Treasury Note 0.5% Due 3/15/2023	0.00	812.50	812.50
09/15/2022	Paydown	58769KAD6	80,000.00	Mercedes-Benz Auto Lease Trust 2021-B A3 0.4% Due 11/15/2024	0.00	26.67	26.67
09/15/2022	Paydown	89232HAC9	142,695.23	Toyota Auto Receivable Own 2020-A A3 1.66% Due 5/15/2024	7,020.63	144.76	7,165.39
09/15/2022	Paydown	43815NAC8	40,973.26	Honda Auto Receivables Trust 2019-3 A3 1.78% Due 8/15/2023	5,867.25	8.70	5,875.95
09/15/2022	Paydown	47787JAC2	130,000.00	John Deere Owner Trust 2022-A A3 2.32% Due 9/16/2026	0.00	251.33	251.33
09/15/2022	Paydown	65479JAD5	58,809.24	Nissan Auto Receivables Owner 2019-C A3 1.93% Due 7/15/2024	2,060.25	78.13	2,138.38

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
09/15/2022	Paydown	43815BAC4	165,000.00	Honda Auto Receivables Trust 2022-1 A3 1.88% Due 5/15/2026	0.00	258.50	258.50
09/15/2022	Paydown	47788UAC6	60,000.00	John Deere Owner Trust 2021-A A3 0.36% Due 9/15/2025	0.00	18.00	18.00
09/15/2022	Paydown	47789QAC4	70,000.00	John Deere Owner Trust 2021-B A3 0.52% Due 3/16/2026	0.00	30.33	30.33
09/15/2022	Paydown	89238JAC9	65,000.00	Toyota Auto Receivables Trust 2021-D A3 0.71% Due 4/15/2026	0.00	38.46	38.46
09/15/2022	Paydown	89231PAD0	3,464.86	Toyota Auto Receivables Trust 2018-D A3 3.18% Due 3/15/2023	288.48	5.38	293.86
09/15/2022	Paydown	89236XAC0	70,000.00	Toyota Auto Receivables 2020-D A3 0.35% Due 1/15/2025	2,142.35	17.26	2,159.61
09/17/2022	Interest	931142ER0	40,000.00	Wal-Mart Stores Callable Note Cont 08/17/2026 1.05% Due 9/17/2026	0.00	210.00	210.00
09/18/2022	Interest	808513BN4	245,000.00	Charles Schwab Corp Callable Note Cont 2/18/2024 0.75% Due 3/18/2024	0.00	918.75	918.75
09/18/2022	Paydown	43813KAC6	85,000.00	Honda Auto Receivables Trust 2020-3 A3 0.37% Due 10/18/2024	4,244.10	19.67	4,263.77
09/19/2022	Interest	459058GQ0	225,000.00	Intl. Bank Recon & Development Note 2.5% Due 3/19/2024	0.00	2,812.50	2,812.50
09/19/2022	Paydown	3137BM6P6	98,678.24	FHLMC K721 A2 3.09% Due 8/25/2022	25,709.71	52.96	25,762.67
09/20/2022	Paydown	92290BAA9	120,000.00	Verizon Owner Trust 2020-B A 0.47% Due 2/20/2025	3,412.47	40.33	3,452.80
09/20/2022	Paydown	92348AAA3	43,220.16	Verizon Owner Trust 2019-C A1A 1.94% Due 4/22/2024	1,634.30	56.75	1,691.05
09/21/2022	Paydown	43813GAC5	80,000.00	Honda Auto Receivables Trust 2021-1 A3 0.27% Due 4/21/2025	3,991.79	17.10	4,008.89
09/21/2022	Paydown	43815GAC3	85,000.00	Honda Auto Receivables Trust 2021-4 A3 0.88% Due 1/21/2026	0.00	62.33	62.33
09/23/2022	Interest	4581X0DZ8	260,000.00	Inter-American Dev Bank Note 0.5% Due 9/23/2024	0.00	650.00	650.00
09/25/2022	Paydown	3137B4GY6	275,000.00	FHLMC K032 A2 3.31% Due 5/25/2023	0.00	758.54	758.54

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09/25/2022	Paydown	05601XAC3	85,000.00	BMW Vehicle Lease Trust 2022-1 A3 1.1% Due 3/25/2025	0.00	77.92	77.92
09/25/2022	Paydown	09690AAC7	50,000.00	BMW Vehicle Lease Trust 2021-2 A3 0.33% Due 12/26/2024	0.00	13.75	13.75
09/30/2022	Interest	9128286L9	750,000.00	US Treasury Note 2.25% Due 3/31/2026	0.00	8,437.50	8,437.50
09/30/2022	Interest	912828T26	750,000.00	US Treasury Note 1.375% Due 9/30/2023	0.00	5,156.25	5,156.25
09/30/2022	Interest	912828W71	750,000.00	US Treasury Note 2.125% Due 3/31/2024	0.00	7,968.75	7,968.75
09/30/2022	Interest	912828YG9	300,000.00	US Treasury Note 1.625% Due 9/30/2026	0.00	2,437.50	2,437.50
09/30/2022	Interest	912828ZF0	350,000.00	US Treasury Note 0.5% Due 3/31/2025	0.00	875.00	875.00
SEP 2022					361,371.33	63,309.37	424,680.70
10/15/2022	Interest	91282CBV2	500,000.00	US Treasury Note 0.375% Due 4/15/2024	0.00	937.50	937.50
10/15/2022	Paydown	43815BAC4	165,000.00	Honda Auto Receivables Trust 2022-1 A3 1.88% Due 5/15/2026	0.00	258.50	258.50
10/15/2022	Paydown	89231PAD0	3,464.86	Toyota Auto Receivables Trust 2018-D A3 3.18% Due 3/15/2023	288.98	4.62	293.60
10/15/2022	Paydown	89236XAC0	70,000.00	Toyota Auto Receivables 2020-D A3 0.35% Due 1/15/2025	2,135.77	16.64	2,152.41
10/15/2022	Paydown	47789QAC4	70,000.00	John Deere Owner Trust 2021-B A3 0.52% Due 3/16/2026	0.00	30.33	30.33
10/15/2022	Paydown	65479JAD5	58,809.24	Nissan Auto Receivables Owner 2019-C A3 1.93% Due 7/15/2024	2,064.89	74.81	2,139.70
10/15/2022	Paydown	58769KAD6	80,000.00	Mercedes-Benz Auto Lease Trust 2021-B A3 0.4% Due 11/15/2024	0.00	26.67	26.67
10/15/2022	Paydown	89232HAC9	142,695.23	Toyota Auto Receivable Own 2020-A A3 1.66% Due 5/15/2024	6,822.27	135.05	6,957.32
10/15/2022	Paydown	47787JAC2	130,000.00	John Deere Owner Trust 2022-A A3 2.32% Due 9/16/2026	0.00	251.33	251.33

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
10/15/2022	Paydown	47788UAC6	60,000.00	John Deere Owner Trust 2021-A A3 0.36% Due 9/15/2025	0.00	18.00	18.00
10/15/2022	Paydown	89238JAC9	65,000.00	Toyota Auto Receivables Trust 2021-D A3 0.71% Due 4/15/2026	0.00	38.46	38.46
10/16/2022	Interest	45950KCR9	160,000.00	International Finance Corp Note 1.375% Due 10/16/2024	0.00	1,100.00	1,100.00
10/16/2022	Interest	3137EAEY1	225,000.00	FHLMC Note 0.125% Due 10/16/2023	0.00	140.63	140.63
10/18/2022	Paydown	43813KAC6	85,000.00	Honda Auto Receivables Trust 2020-3 A3 0.37% Due 10/18/2024	4,245.41	18.36	4,263.77
10/20/2022	Paydown	92348AAA3	43,220.16	Verizon Owner Trust 2019-C A1A 1.94% Due 4/22/2024	1,637.97	54.11	1,692.08
10/20/2022	Paydown	92290BAA9	120,000.00	Verizon Owner Trust 2020-B A 0.47% Due 2/20/2025	3,413.81	38.99	3,452.80
10/21/2022	Paydown	43815GAC3	85,000.00	Honda Auto Receivables Trust 2021-4 A3 0.88% Due 1/21/2026	0.00	62.33	62.33
10/21/2022	Paydown	43813GAC5	80,000.00	Honda Auto Receivables Trust 2021-1 A3 0.27% Due 4/21/2025	3,992.76	16.20	4,008.96
10/25/2022	Maturity	55380TXW5	500,000.00	MUFG Bank Yankee CD 0.3% Due 10/25/2022	500,000.00	1,562.50	501,562.50
10/25/2022	Paydown	3137B4GY6	275,000.00	FHLMC K032 A2 3.31% Due 5/25/2023	0.00	758.54	758.54
10/25/2022	Paydown	05601XAC3	85,000.00	BMW Vehicle Lease Trust 2022-1 A3 1.1% Due 3/25/2025	0.00	77.92	77.92
10/25/2022	Paydown	09690AAC7	50,000.00	BMW Vehicle Lease Trust 2021-2 A3 0.33% Due 12/26/2024	0.00	13.75	13.75
OCT 2022					524,601.86	5,635.24	530,237.10
11/01/2022	Interest	78015K7C2	500,000.00	Royal Bank of Canada Note 2.25% Due 11/1/2024	0.00	5,625.00	5,625.00
11/03/2022	Interest	037833AK6	200,000.00	Apple Inc Note 2.4% Due 5/3/2023	0.00	2,400.00	2,400.00
11/05/2022	Interest	3137EAER6	305,000.00	FHLMC Note 0.375% Due 5/5/2023	0.00	571.88	571.88

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11/06/2022	Interest	3137EAEZ8	335,000.00	FHLMC Note 0.25% Due 11/6/2023	0.00	418.75	418.75
11/07/2022	Interest	3135G06G3	350,000.00	FNMA Note 0.5% Due 11/7/2025	0.00	875.00	875.00
11/08/2022	Interest	69371RR57	175,000.00	Paccar Financial Corp Note 0.9% Due 11/8/2024	0.00	787.50	787.50
11/12/2022	Interest	023135BW5	130,000.00	Amazon.com Inc Note 0.45% Due 5/12/2024	0.00	292.50	292.50
11/15/2022	Interest	912828U24	625,000.00	US Treasury Note 2% Due 11/15/2026	0.00	6,250.00	6,250.00
11/15/2022	Interest	912828VB3	750,000.00	US Treasury Note 1.75% Due 5/15/2023	0.00	6,562.50	6,562.50
11/15/2022	Interest	912828WJ5	750,000.00	US Treasury Note 2.5% Due 5/15/2024	0.00	9,375.00	9,375.00
11/15/2022	Interest	91282CDH1	750,000.00	US Treasury Note 0.75% Due 11/15/2024	0.00	2,812.50	2,812.50
11/15/2022	Interest	912828R36	250,000.00	US Treasury Note 1.625% Due 5/15/2026	0.00	2,031.25	2,031.25
11/15/2022	Interest	91324PEB4	500,000.00	United Health Group Inc Callable Note Cont 5/15/2022 0.55% Due 5/15/2024	0.00	1,375.00	1,375.00
11/15/2022	Paydown	47787JAC2	130,000.00	John Deere Owner Trust 2022-A A3 2.32% Due 9/16/2026	0.00	251.33	251.33
11/15/2022	Paydown	65479JAD5	58,809.24	Nissan Auto Receivables Owner 2019-C A3 1.93% Due 7/15/2024	2,069.53	71.49	2,141.02
11/15/2022	Paydown	89231PAD0	3,464.86	Toyota Auto Receivables Trust 2018-D A3 3.18% Due 3/15/2023	289.50	3.85	293.35
11/15/2022	Paydown	89236XAC0	70,000.00	Toyota Auto Receivables 2020-D A3 0.35% Due 1/15/2025	2,129.13	16.02	2,145.15
11/15/2022	Paydown	43815BAC4	165,000.00	Honda Auto Receivables Trust 2022-1 A3 1.88% Due 5/15/2026	0.00	258.50	258.50
11/15/2022	Paydown	89232HAC9	142,695.23	Toyota Auto Receivable Own 2020-A A3 1.66% Due 5/15/2024	6,623.07	125.61	6,748.68

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
11/15/2022	Paydown	47788UAC6	60,000.00	John Deere Owner Trust 2021-A A3 0.36% Due 9/15/2025	2,490.67	18.00	2,508.67
11/15/2022	Paydown	47789QAC4	70,000.00	John Deere Owner Trust 2021-B A3 0.52% Due 3/16/2026	0.00	30.33	30.33
11/15/2022	Paydown	58769KAD6	80,000.00	Mercedes-Benz Auto Lease Trust 2021-B A3 0.4% Due 11/15/2024	0.00	26.67	26.67
11/15/2022	Paydown	89238JAC9	65,000.00	Toyota Auto Receivables Trust 2021-D A3 0.71% Due 4/15/2026	0.00	38.46	38.46
11/17/2022	Interest	14913R2L0	500,000.00	Caterpillar Financial Service Note 0.45% Due 5/17/2024	0.00	1,125.00	1,125.00
11/18/2022	Paydown	43813KAC6	85,000.00	Honda Auto Receivables Trust 2020-3 A3 0.37% Due 10/18/2024	4,246.72	17.05	4,263.77
11/20/2022	Paydown	92290BAA9	120,000.00	Verizon Owner Trust 2020-B A 0.47% Due 2/20/2025	3,415.15	37.65	3,452.80
11/20/2022	Paydown	92348AAA3	43,220.16	Verizon Owner Trust 2019-C A1A 1.94% Due 4/22/2024	1,641.66	51.46	1,693.12
11/21/2022	Paydown	43813GAC5	80,000.00	Honda Auto Receivables Trust 2021-1 A3 0.27% Due 4/21/2025	3,993.71	15.31	4,009.02
11/21/2022	Paydown	43815GAC3	85,000.00	Honda Auto Receivables Trust 2021-4 A3 0.88% Due 1/21/2026	0.00	62.33	62.33
11/22/2022	Interest	3135G04Q3	245,000.00	FNMA Note 0.25% Due 5/22/2023	0.00	306.25	306.25
11/24/2022	Interest	459058JM6	165,000.00	Intl. Bank Recon & Development Note 0.25% Due 11/24/2023	0.00	206.25	206.25
11/25/2022	Paydown	3137B4GY6	275,000.00	FHLMC K032 A2 3.31% Due 5/25/2023	0.00	758.54	758.54
11/25/2022	Paydown	05601XAC3	85,000.00	BMW Vehicle Lease Trust 2022-1 A3 1.1% Due 3/25/2025	0.00	77.92	77.92
11/25/2022	Paydown	09690AAC7	50,000.00	BMW Vehicle Lease Trust 2021-2 A3 0.33% Due 12/26/2024	0.00	13.75	13.75
11/30/2022	Interest	912828ZT0	365,000.00	US Treasury Note 0.25% Due 5/31/2025	0.00	456.25	456.25
11/30/2022	Interest	91282CAZ4	750,000.00	US Treasury Note 0.375% Due 11/30/2025	0.00	1,406.25	1,406.25

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
11/30/2022	Maturity	912828M80	750,000.00	US Treasury Note 2% Due 11/30/2022	750,000.00	7,500.00	757,500.00
NOV 2022					776,899.14	52,251.15	829,150.29
12/08/2022	Interest	3130A0F70	350,000.00	FHLB Note 3.375% Due 12/8/2023	0.00	5,906.25	5,906.25
12/13/2022	Call	037833DE7	200,000.00	Apple Inc Callable Note Cont 12/13/2022 2.4% Due 1/13/2023	200,000.00	2,000.00	202,000.00
12/14/2022	Interest	3130A1XJ2	155,000.00	FHLB Note 2.875% Due 6/14/2024	0.00	2,228.13	2,228.13
12/15/2022	Interest	912828ZU7	750,000.00	US Treasury Note 0.25% Due 6/15/2023	0.00	937.50	937.50
12/15/2022	Interest	91282CCG4	400,000.00	US Treasury Note 0.25% Due 6/15/2024	0.00	500.00	500.00
12/15/2022	Maturity	912828YW4	750,000.00	US Treasury Note 1.625% Due 12/15/2022	750,000.00	6,093.75	756,093.75
12/15/2022	Paydown	65479JAD5	58,809.24	Nissan Auto Receivables Owner 2019-C A3 1.93% Due 7/15/2024	2,074.18	68.17	2,142.35
12/15/2022	Paydown	89232HAC9	142,695.23	Toyota Auto Receivable Own 2020-A A3 1.66% Due 5/15/2024	6,423.03	116.45	6,539.48
12/15/2022	Paydown	47787JAC2	130,000.00	John Deere Owner Trust 2022-A A3 2.32% Due 9/16/2026	0.00	251.33	251.33
12/15/2022	Paydown	89231PAD0	3,464.86	Toyota Auto Receivables Trust 2018-D A3 3.18% Due 3/15/2023	290.02	3.08	293.10
12/15/2022	Paydown	89236XAC0	70,000.00	Toyota Auto Receivables 2020-D A3 0.35% Due 1/15/2025	2,122.42	15.40	2,137.82
12/15/2022	Paydown	47789QAC4	70,000.00	John Deere Owner Trust 2021-B A3 0.52% Due 3/16/2026	0.00	30.33	30.33
12/15/2022	Paydown	58769KAD6	80,000.00	Mercedes-Benz Auto Lease Trust 2021-B A3 0.4% Due 11/15/2024	0.00	26.67	26.67
12/15/2022	Paydown	43815BAC4	165,000.00	Honda Auto Receivables Trust 2022-1 A3 1.88% Due 5/15/2026	0.00	258.50	258.50
12/15/2022	Paydown	47788UAC6	60,000.00	John Deere Owner Trust 2021-A A3 0.36% Due 9/15/2025	2,491.48	17.25	2,508.73

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
12/15/2022	Paydown	89238JAC9	65,000.00	Toyota Auto Receivables Trust 2021-D A3 0.71% Due 4/15/2026	0.00	38.46	38.46
12/18/2022	Interest	89236TJH9	300,000.00	Toyota Motor Credit Corp Note 0.5% Due 6/18/2024	0.00	750.00	750.00
12/18/2022	Paydown	43813KAC6	85,000.00	Honda Auto Receivables Trust 2020-3 A3 0.37% Due 10/18/2024	4,248.03	15.74	4,263.77
12/20/2022	Paydown	92348AAA3	43,220.16	Verizon Owner Trust 2019-C A1A 1.94% Due 4/22/2024	1,645.35	48.81	1,694.16
12/20/2022	Paydown	92290BAA9	120,000.00	Verizon Owner Trust 2020-B A 0.47% Due 2/20/2025	3,416.49	36.31	3,452.80
12/21/2022	Paydown	43813GAC5	80,000.00	Honda Auto Receivables Trust 2021-1 A3 0.27% Due 4/21/2025	3,994.68	14.41	4,009.09
12/21/2022	Paydown	43815GAC3	85,000.00	Honda Auto Receivables Trust 2021-4 A3 0.88% Due 1/21/2026	0.00	62.33	62.33
12/25/2022	Paydown	05601XAC3	85,000.00	BMW Vehicle Lease Trust 2022-1 A3 1.1% Due 3/25/2025	0.00	77.92	77.92
12/25/2022	Paydown	09690AAC7	50,000.00	BMW Vehicle Lease Trust 2021-2 A3 0.33% Due 12/26/2024	0.00	13.75	13.75
12/25/2022	Paydown	3137B4GY6	275,000.00	FHLMC K032 A2 3.31% Due 5/25/2023	0.00	758.54	758.54
12/26/2022	Interest	3137EAES4	300,000.00	FHLMC Note 0.25% Due 6/26/2023	0.00	375.00	375.00
12/30/2022	Call	747525AR4	500,000.00	Qualcomm Inc Callable Note Cont 12/30/2022 2.6% Due 1/30/2023	500,000.00	5,416.67	505,416.67
DEC 2022					1,476,705.68	26,060.75	1,502,766.43
01/06/2023	Interest	3133ENKS8	750,000.00	FFCB Note 1.125% Due 1/6/2025	0.00	4,218.76	4,218.76
01/10/2023	Interest	3135G05G4	250,000.00	FNMA Note 0.25% Due 7/10/2023	0.00	312.50	312.50
01/11/2023	Maturity	89236TEL5	200,000.00	Toyota Motor Credit Corp Note 2.7% Due 1/11/2023	200,000.00	2,700.00	202,700.00
01/15/2023	Interest	79466LAG9	35,000.00	Salesforce.com Inc Callable Note Cont 7/15/2022 0.625% Due 7/15/2024	0.00	109.38	109.38

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
01/15/2023	Paydown	89231PAD0	3,464.86	Toyota Auto Receivables Trust 2018-D A3 3.18% Due 3/15/2023	290.53	2.31	292.84
01/15/2023	Paydown	89232HAC9	142,695.23	Toyota Auto Receivable Own 2020-A A3 1.66% Due 5/15/2024	6,222.15	107.56	6,329.71
01/15/2023	Paydown	89236XAC0	70,000.00	Toyota Auto Receivables 2020-D A3 0.35% Due 1/15/2025	2,115.64	14.78	2,130.42
01/15/2023	Paydown	47787JAC2	130,000.00	John Deere Owner Trust 2022-A A3 2.32% Due 9/16/2026	0.00	251.33	251.33
01/15/2023	Paydown	47789QAC4	70,000.00	John Deere Owner Trust 2021-B A3 0.52% Due 3/16/2026	0.00	30.33	30.33
01/15/2023	Paydown	65479JAD5	58,809.24	Nissan Auto Receivables Owner 2019-C A3 1.93% Due 7/15/2024	2,078.85	64.83	2,143.68
01/15/2023	Paydown	47788UAC6	60,000.00	John Deere Owner Trust 2021-A A3 0.36% Due 9/15/2025	2,492.28	16.51	2,508.79
01/15/2023	Paydown	43815BAC4	165,000.00	Honda Auto Receivables Trust 2022-1 A3 1.88% Due 5/15/2026	0.00	258.50	258.50
01/15/2023	Paydown	58769KAD6	80,000.00	Mercedes-Benz Auto Lease Trust 2021-B A3 0.4% Due 11/15/2024	6,150.46	26.67	6,177.13
01/15/2023	Paydown	89238JAC9	65,000.00	Toyota Auto Receivables Trust 2021-D A3 0.71% Due 4/15/2026	0.00	38.46	38.46
01/18/2023	Paydown	43813KAC6	85,000.00	Honda Auto Receivables Trust 2020-3 A3 0.37% Due 10/18/2024	4,249.34	14.43	4,263.77
01/20/2023	Paydown	92290BAA9	120,000.00	Verizon Owner Trust 2020-B A 0.47% Due 2/20/2025	3,417.82	34.98	3,452.80
01/20/2023	Paydown	92348AAA3	43,220.16	Verizon Owner Trust 2019-C A1A 1.94% Due 4/22/2024	1,649.05	46.15	1,695.20
01/21/2023	Paydown	43813GAC5	80,000.00	Honda Auto Receivables Trust 2021-1 A3 0.27% Due 4/21/2025	3,995.65	13.51	4,009.16
01/21/2023	Paydown	43815GAC3	85,000.00	Honda Auto Receivables Trust 2021-4 A3 0.88% Due 1/21/2026	0.00	62.33	62.33
01/24/2023	Interest	90331HNV1	250,000.00	US Bank NA Callable Note Cont 6/23/2023 3.4% Due 7/24/2023	0.00	4,250.00	4,250.00
01/25/2023	Paydown	3137B4GY6	275,000.00	FHLMC K032 A2 3.31% Due 5/25/2023	0.00	758.54	758.54

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
01/25/2023	Paydown	05601XAC3	85,000.00	BMW Vehicle Lease Trust 2022-1 A3 1.1% Due 3/25/2025	0.00	77.92	77.92
01/25/2023	Paydown	09690AAC7	50,000.00	BMW Vehicle Lease Trust 2021-2 A3 0.33% Due 12/26/2024	4,161.13	13.75	4,174.88
01/31/2023	Interest	912828Z52	750,000.00	US Treasury Note 1.375% Due 1/31/2025	0.00	5,156.25	5,156.25
01/31/2023	Interest	912828V80	750,000.00	US Treasury Note 2.25% Due 1/31/2024	0.00	8,437.50	8,437.50
01/31/2023	Interest	912828Y87	300,000.00	US Treasury Note 1.75% Due 7/31/2024	0.00	2,625.00	2,625.00
JAN 2023					236,822.90	29,642.28	266,465.18
02/06/2023	Interest	857477BR3	90,000.00	State Street Bank Callable Note Cont 2/6/2025 1.746% Due 2/6/2026	0.00	785.70	785.70
02/06/2023	Interest	594918BX1	200,000.00	Microsoft Callable Note Cont 12/6/2023 2.875% Due 2/6/2024	0.00	2,875.00	2,875.00
02/09/2023	Interest	69371RR40	80,000.00	Paccar Financial Corp Note 0.5% Due 8/9/2024	0.00	200.00	200.00
02/14/2023	Interest	3133ENPG9	415,000.00	FFCB Note 1.75% Due 2/14/2025	0.00	3,631.25	3,631.25
02/15/2023	Interest	912828B66	750,000.00	US Treasury Note 2.75% Due 2/15/2024	0.00	10,312.50	10,312.50
02/15/2023	Interest	91282CCT6	400,000.00	US Treasury Note 0.375% Due 8/15/2024	0.00	750.00	750.00
02/15/2023	Paydown	43815BAC4	165,000.00	Honda Auto Receivables Trust 2022-1 A3 1.88% Due 5/15/2026	0.00	258.50	258.50
02/15/2023	Paydown	89238JAC9	65,000.00	Toyota Auto Receivables Trust 2021-D A3 0.71% Due 4/15/2026	0.00	38.46	38.46
02/15/2023	Paydown	47788UAC6	60,000.00	John Deere Owner Trust 2021-A A3 0.36% Due 9/15/2025	2,493.10	15.76	2,508.86
02/15/2023	Paydown	47789QAC4	70,000.00	John Deere Owner Trust 2021-B A3 0.52% Due 3/16/2026	0.00	30.33	30.33
02/15/2023	Paydown	58769KAD6	80,000.00	Mercedes-Benz Auto Lease Trust 2021-B A3 0.4% Due 11/15/2024	6,151.02	24.62	6,175.64

Cash Flow Report

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Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
02/15/2023	Paydown	47787JAC2	130,000.00	John Deere Owner Trust 2022-A A3 2.32% Due 9/16/2026	0.00	251.33	251.33
02/15/2023	Paydown	89231PAD0	3,464.86	Toyota Auto Receivables Trust 2018-D A3 3.18% Due 3/15/2023	291.05	1.54	292.59
02/15/2023	Paydown	89236XAC0	70,000.00	Toyota Auto Receivables 2020-D A3 0.35% Due 1/15/2025	2,108.79	14.16	2,122.95
02/15/2023	Paydown	65479JAD5	58,809.24	Nissan Auto Receivables Owner 2019-C A3 1.93% Due 7/15/2024	2,083.53	61.49	2,145.02
02/15/2023	Paydown	89232HAC9	142,695.23	Toyota Auto Receivable Own 2020-A A3 1.66% Due 5/15/2024	6,020.42	98.96	6,119.38
02/16/2023	Interest	06406FAD5	200,000.00	Bank of NY Mellon Corp Callable Note Cont 6/16/2023 2.2% Due 8/16/2023	0.00	2,200.00	2,200.00
02/18/2023	Paydown	43813KAC6	85,000.00	Honda Auto Receivables Trust 2020-3 A3 0.37% Due 10/18/2024	4,250.65	13.12	4,263.77
02/20/2023	Paydown	92348AAA3	43,220.16	Verizon Owner Trust 2019-C A1A 1.94% Due 4/22/2024	1,652.77	43.48	1,696.25
02/20/2023	Paydown	92290BAA9	120,000.00	Verizon Owner Trust 2020-B A 0.47% Due 2/20/2025	3,419.16	33.64	3,452.80
02/21/2023	Paydown	43813GAC5	80,000.00	Honda Auto Receivables Trust 2021-1 A3 0.27% Due 4/21/2025	3,996.61	12.61	4,009.22
02/21/2023	Paydown	43815GAC3	85,000.00	Honda Auto Receivables Trust 2021-4 A3 0.88% Due 1/21/2026	0.00	62.33	62.33
02/24/2023	Interest	3137EAEV7	300,000.00	FHLMC Note 0.25% Due 8/24/2023	0.00	375.00	375.00
02/25/2023	Paydown	3137B4GY6	275,000.00	FHLMC K032 A2 3.31% Due 5/25/2023	68,431.14	758.54	69,189.68
02/25/2023	Paydown	05601XAC3	85,000.00	BMW Vehicle Lease Trust 2022-1 A3 1.1% Due 3/25/2025	0.00	77.92	77.92
02/25/2023	Paydown	09690AAC7	50,000.00	BMW Vehicle Lease Trust 2021-2 A3 0.33% Due 12/26/2024	4,162.13	12.61	4,174.74
02/28/2023	Interest	9128284Z0	750,000.00	US Treasury Note 2.75% Due 8/31/2025	0.00	10,312.50	10,312.50
FEB 2023					105,060.37	33,251.35	138,311.72

Cash Flow Report

As of March 31, 2022



Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
03/01/2023	Interest	46647PAH9	500,000.00	JP Morgan Chase & Co Callable Note 2X 3/1/2024 3.22% Due 3/1/2025	0.00	8,050.00	8,050.00
03/07/2023	Interest	24422EWB1	130,000.00	John Deere Capital Corp Note 2.125% Due 3/7/2025	0.00	1,381.25	1,381.25
03/08/2023	Interest	3137EAEW5	300,000.00	FHLMC Note 0.25% Due 9/8/2023	0.00	375.00	375.00
03/10/2023	Maturity	3130ADRG9	350,000.00	FHLB Note 2.75% Due 3/10/2023	350,000.00	4,812.50	354,812.50
03/11/2023	Interest	89114QCB2	500,000.00	Toronto Dominion Bank Note 3.25% Due 3/11/2024	0.00	8,125.00	8,125.00
03/12/2023	Interest	3135G0U43	350,000.00	FNMA Note 2.875% Due 9/12/2023	0.00	5,031.25	5,031.25
03/15/2023	Maturity	912828ZD5	325,000.00	US Treasury Note 0.5% Due 3/15/2023	325,000.00	812.50	325,812.50
03/15/2023	Paydown	43815BAC4	165,000.00	Honda Auto Receivables Trust 2022-1 A3 1.88% Due 5/15/2026	0.00	258.50	258.50
03/15/2023	Paydown	47789QAC4	70,000.00	John Deere Owner Trust 2021-B A3 0.52% Due 3/16/2026	0.00	30.33	30.33
03/15/2023	Paydown	58769KAD6	80,000.00	Mercedes-Benz Auto Lease Trust 2021-B A3 0.4% Due 11/15/2024	6,151.59	22.57	6,174.16
03/15/2023	Paydown	47788UAC6	60,000.00	John Deere Owner Trust 2021-A A3 0.36% Due 9/15/2025	2,493.91	15.01	2,508.92
03/15/2023	Paydown	89231PAD0	3,464.86	Toyota Auto Receivables Trust 2018-D A3 3.18% Due 3/15/2023	291.56	0.77	292.33
03/15/2023	Paydown	89232HAC9	142,695.23	Toyota Auto Receivable Own 2020-A A3 1.66% Due 5/15/2024	5,817.84	90.63	5,908.47
03/15/2023	Paydown	89236XAC0	70,000.00	Toyota Auto Receivables 2020-D A3 0.35% Due 1/15/2025	2,101.87	13.54	2,115.41
03/15/2023	Paydown	47787JAC2	130,000.00	John Deere Owner Trust 2022-A A3 2.32% Due 9/16/2026	0.00	251.33	251.33
03/15/2023	Paydown	65479JAD5	58,809.24	Nissan Auto Receivables Owner 2019-C A3 1.93% Due 7/15/2024	2,088.22	58.13	2,146.35
03/15/2023	Paydown	89238JAC9	65,000.00	Toyota Auto Receivables Trust 2021-D A3 0.71% Due 4/15/2026	0.00	38.46	38.46

Cash Flow Report

As of March 31, 2022



Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
03/17/2023	Interest	931142ER0	40,000.00	Wal-Mart Stores Callable Note Cont 08/17/2026 1.05% Due 9/17/2026	0.00	210.00	210.00
03/18/2023	Interest	808513BN4	245,000.00	Charles Schwab Corp Callable Note Cont 2/18/2024 0.75% Due 3/18/2024	0.00	918.75	918.75
03/18/2023	Paydown	43813KAC6	85,000.00	Honda Auto Receivables Trust 2020-3 A3 0.37% Due 10/18/2024	4,251.96	11.81	4,263.77
03/19/2023	Interest	459058GQ0	225,000.00	Intl. Bank Recon & Development Note 2.5% Due 3/19/2024	0.00	2,812.50	2,812.50
03/20/2023	Paydown	92348AAA3	43,220.16	Verizon Owner Trust 2019-C A1A 1.94% Due 4/22/2024	1,656.48	40.81	1,697.29
03/20/2023	Paydown	92290BAA9	120,000.00	Verizon Owner Trust 2020-B A 0.47% Due 2/20/2025	3,420.50	32.30	3,452.80
03/21/2023	Paydown	43813GAC5	80,000.00	Honda Auto Receivables Trust 2021-1 A3 0.27% Due 4/21/2025	3,997.58	11.71	4,009.29
03/21/2023	Paydown	43815GAC3	85,000.00	Honda Auto Receivables Trust 2021-4 A3 0.88% Due 1/21/2026	0.00	62.33	62.33
03/23/2023	Interest	4581X0DZ8	260,000.00	Inter-American Dev Bank Note 0.5% Due 9/23/2024	0.00	650.00	650.00
03/25/2023	Paydown	09690AAC7	50,000.00	BMW Vehicle Lease Trust 2021-2 A3 0.33% Due 12/26/2024	4,163.14	11.46	4,174.60
03/25/2023	Paydown	05601XAC3	85,000.00	BMW Vehicle Lease Trust 2022-1 A3 1.1% Due 3/25/2025	0.00	77.92	77.92
03/25/2023	Paydown	3137B4GY6	275,000.00	FHLMC K032 A2 3.31% Due 5/25/2023	68,643.27	569.79	69,213.06
03/31/2023	Interest	912828W71	750,000.00	US Treasury Note 2.125% Due 3/31/2024	0.00	7,968.75	7,968.75
03/31/2023	Interest	912828YG9	300,000.00	US Treasury Note 1.625% Due 9/30/2026	0.00	2,437.50	2,437.50
03/31/2023	Interest	9128286L9	750,000.00	US Treasury Note 2.25% Due 3/31/2026	0.00	8,437.50	8,437.50
03/31/2023	Interest	912828T26	750,000.00	US Treasury Note 1.375% Due 9/30/2023	0.00	5,156.25	5,156.25

Cash Flow Report

As of March 31, 2022



Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
03/31/2023	Interest	912828ZF0	350,000.00	US Treasury Note 0.5% Due 3/31/2025	0.00	875.00	875.00
MAR 2023					780,077.92	59,651.15	839,729.07
TOTAL					7,448,846.32	434,752.22	7,883,598.54



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Information contained in this monthly statement is confidential and is provided for informational purposes only and should not be construed as specific investment or legal advice. The information contained herein was obtained from sources believed to be reliable as of the date of this statement, but may become outdated or superseded at any time without notice.

Custody: Your qualified custodian bank maintains control of all assets reflected in this statement and we urge you to compare this statement to the one you receive from your qualified custodian. Chandler does not have any authority to withdraw or deposit funds from/to the custodian account.

Valuation: Prices are provided by IDC, an independent pricing source. In the event IDC does not provide a price or if the price provided is not reflective of fair market value, Chandler will obtain pricing from an alternative approved third party pricing source in accordance with our written valuation policy and procedures. Our valuation procedures are also disclosed in Item 5 of our Form ADV Part 2A.

Performance: Performance results are presented gross-of-advisory fees and represent the client's Total Return. The deduction of advisory fees lowers performance results. These results include the reinvestment of dividends and other earnings. Past performance may not be indicative of future results. Therefore, clients should not assume that future performance of any specific investment or investment strategy will be profitable or equal to past performance levels. All investment strategies have the potential for profit or loss. Economic factors, market conditions or changes in investment strategies, contributions or withdrawals may materially alter the performance and results of your portfolio.

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Index returns assume reinvestment of all distributions. Historical performance results for investment indexes generally do not reflect the deduction of transaction and/or custodial charges or the deduction of an investment management fee, the incurrence of which would have the effect of decreasing historical performance results. It is not possible to invest directly in an index.

Ratings: Ratings information have been provided by Moody's, S&P and Fitch through data feeds we believe to be reliable as of the date of this statement, however we cannot guarantee its accuracy.

Security level ratings for U.S. Agency issued mortgage-backed securities ("MBS") reflect the issuer rating because the securities themselves are not rated. The issuing U.S. Agency guarantees the full and timely payment of both principal and interest and carries a AA+/Aaa/AAA by S&P, Moody's and Fitch respectively.



TO: THE HONORABLE MAYOR AND CITY COUNCIL
SUBJECT: PERSONNEL REPORT

1. Report the count of confirmed COVID-19 employee cases.
Total Count: One-Hundred Sixty-Eight (168)
 - a. Administrative Services Department: Seven (7)
 - b. City Clerk's Office: Three (3)
 - c. Elected & City Manager's Offices: One (1)
 - d. Community Development Department: Four (4)
 - e. Transportation Department: Fifty-Four (54)
 - f. Police Department: Forty-Six (46)
 - g. Public Works Department: Twenty-Six (26)
 - h. Recreation & Human Services Department: Twenty-Seven (27)
2. Report the Appointment of **MATTHEW AU**, to the position of Engineering Technician, Schedule 51 (\$5,441 - \$6,945/month) with the Public Works Department effective May 9, 2022.
3. Report the separation of Transit Planning and Scheduling Analyst, **CHRISTOPHER JONES**, of the Transportation Department effective May 13, 2022. Mr. Jones provided two years and five months of service to the City.
4. Report the Recruitment for the Open/Competitive position of Risk Management Analyst (Administrative Services Department). This recruitment is open until filled.
5. Report the Recruitment for the Open/Competitive position of Transit Equipment Mechanic (GTrans Department). This recruitment is open until filled.
6. Report the Recruitment for the Open/Competitive position of Geriatric Aide (Recreation Department). This recruitment is open until filled.

RESOLUTION NO. 6579

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, MAKING THE LEGALLY REQUIRED FINDINGS TO RE-AUTHORIZE THE USE OF TELECONFERENCING IN ACCORDANCE WITH ASSEMBLY BILL 361 FOR MEETINGS OF THE GARDENA CITY COUNCIL AND OTHER COMMISSIONS, COMMITTEES AND BOARDS SUBJECT TO STATE OPEN MEETING LAWS

THE CITY COUNCIL OF THE CITY OF GARDENA DOES HEREBY RESOLVE AS FOLLOWS:

WHEREAS, international, national, state, and local health and governmental authorities are responding to an outbreak of respiratory disease caused by a novel coronavirus named “SARS-CoV-2,” and the disease it causes has been named “coronavirus disease 2019,” abbreviated COVID-19, (“COVID-19”); and

WHEREAS, on March 4, 2020, the Governor of the State of California, Gavin Newsom declared a State of Emergency in California to make additional resources available, formalize emergency actions already underway across multiple state agencies and departments, and help the State prepare for broader spread of COVID-19; and

WHEREAS, on March 4, 2020, the Los Angeles County Board of Supervisors and Department of Public Health declared a local emergency and local public health emergency to aid the regional healthcare and governmental community in responding to COVID-19; and

WHEREAS, on March 13, 2020, the President of the United States declared a National Emergency due to the continue spread and the effects of COVID-19; and

WHEREAS, on March 16, 2020, the City Manager, as the City’s Director of Emergency Services, did proclaim the existence of a local emergency as authorized by Government Code section 8630 and Gardena Municipal Code Chapter 2.56.060; and

WHEREAS, the Governor’s March 4, 2021, declaration of a state of emergency based on the COVID-19 pandemic remains in place; and

WHEREAS, the Proclamation of Existence of a Local Emergency issued by the City Manager, as the City’s Director of Emergency Services on March 16, 2020, has been ratified by the City Council via Resolution 6441 on March 19, 2020 and reaffirmed by Resolution No. 6454 on May 12, 2020, Resolution No 6469 on July 14, 2020, Resolution No. 6478 on September 8, 2020, Resolution No. 6483 on October 27, 2020, Resolution

No. 6489 on December 15, 2020, Resolution No. 6495 on February 9, 2021, Resolution No. 6503 on March 23, 2021, Resolution No. 6512 on May 11, 2021, Resolution No. 6521 on June 22, 2021, Resolution No. 6526 on August 10, 2021, Resolution No. 6533 on October 26, 2021, Resolution No. 6538 on December 14, 2021, Resolution No. 6559 on February 8, 2022, Resolution No. 6567 on March 22, 2022 and Resolution No. 6574 on May 10, 2022, with the result that the proclamation of a local emergency based on the COVID-19 pandemic remains in place; and

WHEREAS, Paragraph 3 of Executive Order N-29-20, issued by the Governor on March 17, 2020, among other things, suspended the Brown Act requirements for teleconferencing, provided that notice and accessibility requirements were met, the public was allowed to observe and address the legislative body at the meeting, and the legislative body had a procedure for receiving and swiftly resolving requests for reasonable accommodation for individuals with disabilities, specifying that this suspension would remain in place during the period in which state or local public health officials have imposed or recommended social distancing measures; and

WHEREAS, paragraph 42 of Executive Order N-08-21, issued by the Governor on June 11, 2021, withdrew, and replaced paragraph 3 of Executive Order N-29-20's suspension of the Brown Act requirements for teleconferencing with a similar suspension of those requirements that it specified would remain in place only through September 30, 2021; and

WHEREAS, on September 16, 2021, the Governor signed into law Assembly Bill No. 361 ("AB 361"), which, until January 1, 2024, authorizes a local agency to use teleconferencing without complying with the teleconferencing requirements imposed by the Brown Act when a legislative body of a local agency holds a meeting during a declared state of emergency, as that term is defined, when state or local health officials have imposed or recommended measures to promote social distancing or when the legislative body has determined that meeting in person would present imminent risks to the health or safety of attendees; and

WHEREAS, AB 361 requires legislative bodies that hold teleconferenced meetings under its abbreviated teleconferencing procedures to give notice of the meeting and post agendas, as described, to allow members of the public to access the meeting and address

the legislative body, to give notice of the means by which members of the public may access the meeting and offer public comment, including an opportunity for all persons to attend via a call-in option or an internet-based service option, and to conduct the meeting in a manner that protects the statutory and constitutional rights of the parties and the public appearing before the legislative body; and

WHEREAS, AB 361 requires the legislative body to take no further action on agenda items when there is a disruption which prevents the public agency from broadcasting the meeting, or in the event of a disruption within the local agency's control which prevents members of the public from offering public comments, until public access is restored; and

WHEREAS, AB 361 prohibits the legislative body from requiring public comments to be submitted in advance of the meeting and specifies that the legislative body must provide an opportunity for the public to address the legislative body and offer comment in real time; and

WHEREAS, AB 361 prohibits the legislative body from closing the public comment period and the opportunity to register to provide public comment, until the public comment period has elapsed or until a reasonable amount of time has elapsed, as specified; and

WHEREAS, when there is a continuing state of emergency, or when state or local officials have imposed or recommended measures to promote social distancing, AB 361 requires a legislative body to make specified findings not later than 30 days after the first teleconferenced meeting pursuant to these provisions, and to make those findings every 30 days thereafter, in order to continue to meet under AB 361's abbreviated teleconferencing procedures; and

WHEREAS, this body previously adopted a Resolution, which made the findings required by AB 361 to allow the City Council and all City Commissions, Committees and Boards to continue to meet under AB 361's abbreviated teleconferencing procedures, and authorized the City Council and all City Commissions, Committees and Boards to conduct meetings under AB 361's abbreviated teleconferencing procedures, without complying with the requirements set forth in Government Code Section 54953(b)(3), subject to compliance with the requirements set forth in Government Code Section 54953(e)(2); and

WHEREAS, in light of the continuing State and local declarations of emergency resulting from the COVID-19 pandemic, the continuing recommendation by Los Angeles County Public Health officials of measures to promote social distancing, and the imminent risks to the health of safety of attendees at meetings conducted in person, the City Council desires to again make the findings required by AB 361 to allow the City Council and all City Commissions, Committees and Boards to continue to meet under AB 361's abbreviated teleconferencing procedures.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, DOES HEREBY FIND, DETERMINE, AND RESOLVE, AS FOLLOWS:

SECTION 1. The Recitals set forth above are true and correct and are incorporated into this Resolution by this reference.

SECTION 2. The City Council finds that the State and local declarations of emergency resulting from the COVID-19 pandemic remain in place, and that the state of emergency continues to directly impact the ability to meet safely in person.

SECTION 3. The City Council finds that local officials, namely, the Los Angeles County Department of Public Health, has continued to recommend measures to promote social distancing.

SECTION 4. As a result of the findings in Sections 1 through 3 above, the City Council and all City Commissions, Committees and Boards are authorized to conduct meetings under AB 361's abbreviated teleconferencing procedures, without complying with the requirements set forth in Government Code Section 54953(b)(3), subject to compliance with the requirements set forth in Government Code Section 54953(e)(2).

SECTION 5. If any section, subsection, sentence, clause, or phrase of this Resolution is for any reason held to be invalid or unconstitutional by a decision of any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this Resolution. The City Council hereby declares that it would have passed this Resolution and each and every section, subsection, sentence, clause, or phrase not declared invalid or unconstitutional without regard to whether any portion of this Resolution would be subsequently declared invalid or unconstitutional.

BE IT FURTHER RESOLVED that the City Clerk shall certify to the passage and adoption of this Resolution; shall cause the same to be entered among the original Resolutions of said City; and shall make a minute of the passage and adoption thereof in the records of the proceedings of the City Council of said City in the minutes of the meeting at which the same is passed and adopted.

Passed, approved, and adopted this 24th day of May 2022.

TASHA CERDA, Mayor

ATTEST:

MINA SEMENZA, City Clerk

APPROVED AS TO FORM:



CARMEN VASQUEZ, City Attorney



City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 8.H
Section: CONSENT CALENDAR
Meeting Date: May 24, 2022

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: Second Reading and Adoption of Ordinance No. 1840: Adopting Chapter 18.74 to Title 18, Zoning, of the Gardena Municipal Code Relating to Reasonable Accommodations Policy and Procedures and Directing Staff to File a Notice of Exemption from California Environmental Quality Act Pursuant to the Common Sense Exemption

CONTACT: COMMUNITY DEVELOPMENT

COUNCIL ACTION REQUIRED:

RECOMMENDATION AND STAFF SUMMARY:

Federal Law and State Law require that persons with disabilities be provided a reasonable accommodation from a land use regulation, policy, or practice that would prevent such a person from having an equal opportunity for housing. Additionally, the recently adopted 2021-2029 6th Cycle Housing Element included a commitment to adopt a reasonable accommodation ordinance.

Ordinance No.1840 provides a process for individuals with disabilities to make requests for, and be provided, reasonable accommodation, when reasonable accommodation is warranted based upon sufficient evidence, from the various City laws, rules, policies, practices and/or procedures of the City, including land use and zoning regulations.

On February 15, 2022, the Planning Commission voted 5-0-0, recommending that the City Council adopt Ordinance No. 1840. The Planning Commission's staff report and resolution of approval, are attached hereto to provide further detail of the project.

On April 26, 2022, the City Council held a public hearing and introduced Ordinance No. 1840. The motion was made by Mayor Pro Tem Tanaka and unanimously approved.

Staff recommends that the City Council adopt Ordinance No. 1840.

FINANCIAL IMPACT/COST:

None.

ATTACHMENTS:

[Planning Commission Packet, Dated February 15, 2022.pdf](#)
[Ordinance No. 1840](#)

APPROVED:

A handwritten signature in blue ink, appearing to read "Clint Osorio", is centered within a light gray rectangular box.

Clint Osorio, City Manager

CITY OF GARDENA
PLANNING AND ENVIRONMENTAL QUALITY COMMISSION

STAFF REPORT
RESOLUTION NO. PC 5-22

AGENDA ITEM # 5.B

DATE: February 15, 2022

TO: Chair Langley and Members of the Planning and Environmental Quality Commission

FROM: Greg Tsujiuchi, Community Development Director

APPLICANT: City of Gardena

LOCATION: Citywide

REQUEST: Adoption of Resolution No. 5-22 recommending that the City Council adopt Ordinance No. 1840 adding Chapter 18.74 to the Gardena Municipal Code relating to reasonable accommodations

Background

Federal law (the Fair Housing Act, Americans with Disabilities Act, and the Rehabilitation Act of 1973) and State Law (California Fair and Equal Housing Act) require that persons with disabilities be provided a reasonable accommodation from a land use regulation, policy, or practice that would prevent such person from having an equal opportunity for housing. While the City has made it a policy for years to provide reasonable accommodations if requested, the recently adopted 2021-2029 6th Cycle Housing Element included a commitment to adopt a reasonable accommodation ordinance which sets for the process for requesting a reasonable accommodation.

The proposed ordinance is modeled on the City of Oakland's ordinance whose draft was revised in response to concerns raised by Disability Rights California, an advocacy agency for people with disabilities.

Ordinance Summary

Ordinance No. 1840 adds a new Chapter 18.74 to the City's zoning provisions. The stated purpose of the Chapter is to establish a procedure for people with disabilities to make requests for a reasonable accommodation in the application of the City's zoning and building laws, rules, policies and practices so that a disabled person may use and enjoy a dwelling.

Requests for a reasonable accommodation may be made by the person with a disability, a representative of that person, or a developer of housing for disabled persons.

A request for a reasonable accommodation must be in writing and include specified information, including the reason for the request. If the request is made in conjunction with a request for a discretionary approval, then to the extent feasible, the request should be filed with the related application. However, all requests are to remain confidential to respect the individual's right of privacy and the determination will be made by the Director of Community Development.

The required findings to grant an accommodation request are as follows:

1. That the housing, which is the subject of the request for reasonable accommodation, will be used by people with disabilities protected under fair housing laws.
2. That the accommodation is necessary to afford people with disabilities an equal opportunity to use and enjoy the dwelling;
3. That the requested accommodation will not require a fundamental alteration to zoning laws, rules, policies, practices and procedures; and
4. That the requested accommodation will not impose an undue financial or administrative burden on the City.

Appeals of the Director's decision may be made to the City Manager.

Analysis

Gardena Municipal Code section 18.52.010 specifies that the zoning code may be amended whenever the public necessity, convenience, general welfare, or good land use and zoning practices so require. Additionally, the ordinance must be consistent with the General Plan.

Ordinance No. 18.40 is required to be adopted by federal and State law in order to provide housing opportunities to disabled individuals. The Ordinance therefore promotes the public necessity, convenience, and general welfare. As discussed above, the Ordinance is also consistent with the City's General Plan as it implements one of the obligations of the City under the newly adopted Housing Element.

CEQA

This Ordinance is categorically exempt from CEQA pursuant to the common sense exemption set forth in Guidelines section 15061(b)(3) that CEQA only applies to projects which have the potential for causing a significant effect on the environment and where it can be seen with certainty that there is no possibility that the activity will have a significant effect, the activity is not subject to CEQA. This Ordinance enacts a procedure as required by federal and state law and does not change the density, intensity, or allowed uses or would have other effects on the environment. For these same reasons, the Ordinance

also qualifies for an exemption under CEQA Guidelines section 15305 (Class 5) for minor alterations in land use limitations in areas with an average slope of less than 20%. No part of Gardena has a slope in excess of 20%. The changes are not for any specific project and therefore will not impact any environmental resource of hazardous or critical concern, will not create cumulative impacts, or impacts to scenic highways, hazardous waste sites, or historical resources. Because this is an ordinance pertaining to citywide development standards there will not be any significant effects on the environment due to unusual circumstances. As such, staff is directed to file a Notice of Exemption pursuant to CEQA Guidelines sections 15061(b)(3) and 15305.

Recommendation

It is recommended that the Planning Commission approve the attached resolution recommending that the City Council approve the attached ordinance to provide reasonable accommodations to persons with disabilities in order to increase housing opportunities in the City and comply with State and federal law.

RESOLUTION NO. PC 5-22

A RESOLUTION OF THE PLANNING AND ENVIRONMENTAL QUALITY COMMISSION OF THE CITY OF GARDENA, CALIFORNIA, RECOMMENDING THAT THE CITY COUNCIL ADOPT ORDINANCE NO. 1840 ADDING CHAPTER 18.74 TO TITLE 18, ZONING, OF THE GARDENA MUNICIPAL CODE RELATING TO REASONABLE ACCOMMODATIONS POLICY AND PROCEDURES AND DIRECTING STAFF TO FILE A NOTICE OF EXEMPTION

THE PLANNING COMMISSION OF THE CITY OF GARDENA, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

A. The federal Fair Housing Amendments Act of 1988 and California's Fair Employment and Housing Act impose an affirmative duty on local governments to make reasonable accommodation in their land use and zoning regulations and practices when necessary;

B. Fair Housing Laws include "Fair Housing Amendments Act of 1988" (42 U.S.C. § 3601 et seq.), including reasonable accommodation required by 42 U.S.C. § 3604(f)(3)(B), and the "California Fair Employment and Housing Act" (California Government Code Section 12900 et seq.), including reasonable accommodation required specifically by California Government Code Sections 12927(c)(1) and 12955(l), as any of these statutory provisions now exist or may be amended from time to time;

C. The State Housing and Community Development Department (HCD) encourages cities to adopt written procedures for reasonable accommodation requests with respect to zoning regulations, permit processing, and building codes in light of the aforementioned laws and a city's affirmative duty to comply with fair housing laws;

D. One of HCD's comments on the City's 6th Cycle Housing Element related to the City's procedures and findings regarding reasonable accommodations;

E. The City shall provide a process for individuals with disabilities to make requests for, and be provided, reasonable accommodation, when reasonable accommodation is warranted based upon sufficient evidence, from the various City laws, rules, policies, practices and/or procedures of the City, including land use and zoning regulations;


F. It is the intent of this chapter that, notwithstanding time limits provided to perform specific functions, application review, decision making and appeals proceed expeditiously, especially where the request is time sensitive, so as to reduce impediments to equal access to housing;

G. On February 15, 2022, the Planning and Environmental Quality Commission held a public hearing at which time it considered all material and evidence, whether written or oral; and

NOW, THEREFORE, THE PLANNING AND ENVIRONMENTAL QUALITY COMMISSION OF THE CITY OF GARDENA DOES HEREBY RESOLVE AS FOLLOWS:

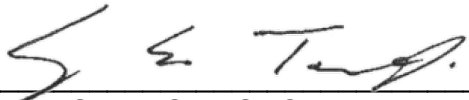
The Planning Commission hereby recommends that the City Council adopt Ordinance No. 1840, attached hereto as Exhibit A, adding chapter 18.74 to Title 18, Zoning, of the Gardena Municipal code relating to reasonable accommodations policy and procedures, and recommends the City Council directs staff to file a notice of exemption.

PASSED, APPROVED, AND ADOPTED this 15th day of February 2022.



LANGLEY STEPHEN, CHAIR
PLANNING AND ENVIRONMENTAL
QUALITY COMMISSION

ATTEST:



GREG TSUJIUCHI, SECRETARY
PLANNING AND ENVIRONMENTAL QUALITY COMMISSION
STATE OF CALIFORNIA
COUNTY OF LOS ANGELES
CITY OF GARDENA

I, Greg Tsujiuchi, Planning and Environmental Quality Commission Secretary of the City of Gardena, do hereby certify that the foregoing Resolution was duly adopted by the Planning and Environmental Quality Commission of the City of Gardena at a regular meeting thereof, held the 15th day of February 2022, by the following vote of the Planning and Environmental Quality Commission:

AYES: Langley, Kanhan, Sherman, Henderson, Eaton

NOES:

ABSENT:

Attachments:

- Exhibit A: Draft Ordinance No. 1840

ORDINANCE NO. 1840

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, ADDING CHAPTER 18.74 TO TITLE 18, ZONING, OF THE GARDENA MUNICIPAL CODE RELATING TO REASONABLE ACCOMMODATIONS POLICY AND PROCEDURES

WHEREAS, the federal Fair Housing Amendments Act of 1988 and California's Fair Employment and Housing Act impose an affirmative duty on local governments to make reasonable accommodation in their land use and zoning regulations and practices when necessary; and

WHEREAS, Fair Housing Laws include "Fair Housing Amendments Act of 1988" (42 U.S.C. § 3601 et seq.), including reasonable accommodation required by 42 U.S.C. § 3604(f)(3)(B), and the "California Fair Employment and Housing Act" (California Government Code Section 12900 et seq.), including reasonable accommodation required specifically by California Government Code Sections 12927(c)(1) and 12955(l), as any of these statutory provisions now exist or may be amended from time to time; and

WHEREAS, the State Housing and Community Development Department (HCD) encourages cities to adopt written procedures for reasonable accommodation requests with respect to zoning regulations, permit processing, and building codes in light of the aforementioned laws and a city's affirmative duty to comply with fair housing laws; and

WHEREAS, one of HCD's comments on the City's 6th Cycle Housing Element related to the City's procedures and findings regarding reasonable accommodations; and

WHEREAS, the City shall provide a process for individuals with disabilities to make requests for, and be provided, reasonable accommodation, when reasonable accommodation is warranted based upon sufficient evidence, from the various City laws, rules, policies, practices and/or procedures of the City, including land use and zoning regulations; and

WHEREAS, it is the intent of this chapter that, notwithstanding time limits provided to perform specific functions, application review, decision making and appeals proceed expeditiously, especially where the request is time sensitive, so as to reduce impediments to equal access to housing; and

WHEREAS, the Planning Commission held a duly noticed public hearing on Ordinance No.1840 on February 15, 2022 at which time it considered all evidence presented, both written and oral; and

WHEREAS, after the close of the public hearing the Planning Commission adopted Resolution No. PC. 5-22 recommending that the City Council adopt Ordinance No. 1840 as revised, including the addition of Chapter 18.74 to Title 18 for reasonable accommodation policy and procedures; and

WHEREAS, on April 26, 2022 the City Council held a duly noticed public hearing on revised Ordinance No. 1840 at which time it considered all evidence presented, both written and oral;

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, DOES HEREBY ORDAIN AS FOLLOWS:

SECTION 1. FINDINGS.

- A. The City Council finds that adopting the changes set forth in this Ordinance represents good planning practices because it provides individuals with disabilities reasonable accommodation in rules, policies, practices, and procedures to ensure the equal access to housing and facilitate the development of housing for individuals with disabilities.
- B. The City Council further finds that this Ordinance is consistent with the City's General Plan.

SECTION 2. Chapter 18.74 titled Reasonable Accommodations Policy and Procedures is hereby added to the Gardena Municipal Code to read as follows.

18.74 REASONABLE ACCOMMODATIONS POLICY AND PROCEDURES

18.74.010 Title, purpose, and applicability.

- A. Title and Intent. The provisions of this Chapter shall be known as the Reasonable Accommodations Policy and Procedures. The intent of the Reasonable Accommodations Policy and Procedures is to provide flexibility in the application of the zoning and building codes for individuals with a disability when flexibility is necessary to eliminate barriers to housing opportunities. This Chapter will facilitate compliance with federal and state fair housing laws and promote housing opportunities for residents of Gardena.
- B. Purpose. The purpose of this Chapter is to establish a procedure for persons with disabilities seeking fair access to housing to make requests for a reasonable accommodation in the application of Gardena's zoning and building laws, rules, policies, practices and procedures pursuant to Section 3604(f)(3)(b) of Title 42 of the United States Code (the "Fair Housing Act") and Section 12955 et seq. of the California Government Code (the "California Fair Employment and Housing Act"), which prohibit local government from refusing to make reasonable accommodations in policies and practices when these accommodations are necessary to afford persons with disabilities equal opportunity to use and enjoy a dwelling.

- C. Applicability. A request for a reasonable accommodation may include a modification or exception to the rules, standards and practices for the siting, development and use of housing or housing-related facilities that would eliminate regulatory barriers and provide a person with a disability equal opportunity to housing of their choice.

18.74.020 Definitions.

For the purposes of this Chapter, unless otherwise apparent from the context, certain words and phrases have the meanings stated in this section. The definitions stated herein apply to differing forms of the word or phrase, as required by context.

- A. "Director" means the Community Development Director or the Director's designee.
- B. "Eligible person" means a person with a disability, a representative of such person, or a developer of housing for persons with disabilities.
- C. "Person with a Disability" is any person who has a physical or mental impairment that limits one or more major life activities; anyone who is regarded as having such impairment; or anyone who has a record of such impairment.
- D. "Reasonable accommodation" for purposes of this chapter means providing individuals with disabilities or developers of housing for people with disabilities, flexibility in the application of land use and zoning and building regulations, policies, practices and procedures, or even waiving certain requirements when it is necessary to eliminate barriers to housing opportunities.
- E. "Request for Reasonable Accommodation" means a request to modify land use, zoning and building regulations, policies, practices, or procedures in order to give people with disabilities an equal opportunity to use and enjoy housing opportunities.

18.74.030 Notice to public.

Notice of the City of Gardena's Reasonable Accommodations Policy and Procedure along with an application form shall be displayed in the Community Development Department and on the City's website.

18.74.040 Reasonable accommodation request.

- A. Any eligible person may request a reasonable accommodation in land use, zoning and building regulations, policies, practices and procedures by filing an application with the Community Development Department.

- B. Requests for reasonable accommodation shall be in writing and provide the following information:
 - 1. Name and address of the individual(s) requesting reasonable accommodation;
 - 2. Name and address of the property owner(s);
 - 3. Address of the property for which accommodation is requested;
 - 4. Description of the requested accommodation and the regulation(s), policy or procedure for which accommodation is sought;
 - 5. Reason that the requested accommodation may be necessary for the individual(s) with the disability to use and enjoy the dwelling.
 - 6. If necessary to reach a determination on the request for reasonable accommodation, the reviewing authority may request further information from the applicant consistent with fair housing laws, specifying in detail the information that is required. In the event that a request for additional information is made, the thirty (30) day period to issue a decision is stayed until the applicant responds to the request
- C. Any information identified by an applicant as confidential shall be retained in a manner so as to respect the privacy rights of the applicant and shall not be made available for public inspection.
- D. If an individual needs assistance in making the request for reasonable accommodation, the City will provide assistance to ensure that the process is accessible.
- E. While a request for reasonable accommodation is pending, all laws and regulations otherwise applicable to the property that is the subject of the request shall remain in full force and effect.

18.74.050 Timing of request.

- A. A request for reasonable accommodation may be filed at any time that the accommodation may be necessary to ensure equal access to housing.
- B. If the project for which the request is being made also requires one or more related discretionary approvals (including, but not limited to, design review, conditional use

permit, variance or subdivision), then to the extent feasible, the applicant shall file the request for reasonable accommodation together with the related application for discretionary approval.

18.74.060 Review procedures.

- A. The Director shall act on requests for a reasonable accommodation and shall make reasonable accommodations in rules, policies, practices, or services when those accommodations may be necessary to afford persons with disabilities equal opportunities to use and enjoy housing opportunities.
- B. The Director shall issue a written determination on a request for a reasonable accommodation within a timely manner but no later than thirty (30) days of the date of receipt of a complete application form and may: (1) grant the accommodation request; (2) grant the accommodation request subject to specified nondiscriminatory conditions of approval; or (3) deny the request. All written determinations shall give notice of the right to appeal as specified in Section 18.74.090. The notice of determination shall be sent to the applicant by first class mail or in a format requested by the applicant.
- C. For requests for a reasonable accommodation involving related applications for discretionary approval, the application shall be processed and considered separately from any discretionary elements of the same proposal. If the request for a reasonable accommodation cannot be effectuated until a final decision is rendered on the related discretionary approval(s), a "provisional decision" can be granted within the 30 day time frame and shall become final at the same time as the discretionary approval(s). The applications for the discretionary approval(s) shall be separately considered and shall be subject to the procedures specified in the applicable Zoning Code section. The appropriate decision-making body shall act on all discretionary permits, but not the reasonable accommodation request.

18.74.070 Findings for requests.

- A. In making a determination to grant a requested accommodation, the Director shall make all of the following findings for requests:
 - 1. That the housing, which is the subject of the request for reasonable accommodation, will be used by people with disabilities protected under fair housing laws.

2. That the accommodation is necessary to afford people with disabilities an equal opportunity to use and enjoy the dwelling;
 3. That the requested accommodation will not require a fundamental alteration to zoning laws, rules, policies, practices and procedures; and
 4. That the requested accommodation will not impose an undue financial or administrative burden on the City.
- B. None of the findings of this Section are intended to supersede any other findings which might also be required for a discretionary permit that is reviewed concurrently with the request for accommodation.

18.74.080 Finality of decision.

- A. For requests for reasonable accommodations not involving related land use permits, a decision by the Director shall become final ten (10) calendar days after the date of initial decision.
- B. For requests for reasonable accommodations involving related land use permits, a decision by the Director shall become final (10) calendar days after the date of decision on the related land use permit or the date of denial of the provisional permit, whichever is later.
- C. In the event that the last date of appeal falls on a weekend, holiday or when City offices are closed, the next date such offices are open for business shall be the last date of appeal.

18.74.090 Appeal Procedure

- A. Within ten (10) days of the date of the Director's written decision, an applicant may appeal an adverse decision. Appeals from the adverse decision shall be made in writing.
- B. If an individual needs assistance in filing an appeal on an adverse decision, the City will provide assistance to ensure that the appeal process is accessible.
- C. All appeals shall contain a statement of the grounds for the appeal. Any information identified by an applicant as confidential shall be retained in a manner so as to respect the privacy rights of the applicant and shall not be made available for public inspection.
- D. Appeals shall be heard by the City Manager within thirty days of filing an appeal. The City Manager shall issue a written decision within ten days of the hearing and

the decision shall be final.

- E. Nothing in this procedure shall preclude an aggrieved individual from seeking any other state or federal remedy available.

SECTION 3. CEQA. This Ordinance is categorically exempt from CEQA pursuant to the common sense exemption set forth in Guidelines section 15061(b)(3) that CEQA only applies to projects which have the potential for causing a significant effect on the environment and where it can be seen with certainty that there is no possibility that the activity will have a significant effect, the activity is not subject to CEQA. This Ordinance enacts a procedure as required by federal and state law and does not change the density, intensity, or allowed uses or would have other effects on the environment. For these same reasons, the Ordinance also qualifies for an exemption under CEQA Guidelines section 15305 (Class 5) for minor alterations in land use limitations in areas with an average slope of less than 20%. No part of Gardena has a slope in excess of 20%. The changes are not for any specific project and therefore will not impact any environmental resource of hazardous or critical concern, will not create cumulative impacts, or impacts to scenic highways, hazardous waste sites, or historical resources. Because this is an ordinance pertaining to citywide development standards there will not be any significant effects on the environment due to unusual circumstances. As such, staff is directed to file a Notice of Exemption pursuant to CEQA Guidelines sections 15061(b)(3) and 15305.

SECTION 4. Severability. If any section, subsection, subdivision, paragraph, sentence, clause or phrase of this ordinance, or any part thereof is for any reason held to be unconstitutional, such decision shall not affect the validity of the remaining portion of this ordinance or any part thereof. The City Council hereby declares that it would have passed each section, subsection, subdivision, paragraph, sentence, clause or phrase thereof, irrespective of the fact that any one or more section, subsection, subdivision, paragraph, sentence, clause or phrase be declared unconstitutional.

SECTION 5. This Ordinance shall take effect on the thirty-first day after passage.

SECTION 6. Certification. The City Clerk shall certify the passage of this ordinance and shall cause the same to be entered in the book of original ordinances of said City; shall make a minute passage and adoption thereof in the records of the meeting at which time the same is passed and adopted; and shall, within fifteen (15) days after the passage and adoption thereof, cause the same to be published as required by law, in a publication of general circulation.

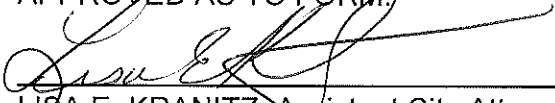
PASSED, APPROVED AND ADOPTED this ____ day of _____, 2022.

TASHA CERDA, Mayor

ATTEST:

MINA SEMENZA, City Clerk

APPROVED AS TO FORM:



LISA E. KRANITZ, Assistant City Attorney



City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 8.I
Section: CONSENT CALENDAR
Meeting Date: May 24, 2022

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: Second Reading and Adoption of Ordinance No. 1841, Adopting a Military Equipment Use Policy of the City of Gardena, California Governing the Use of Military Equipment pursuant to Assembly Bill 481

CONTACT: POLICE DEPARTMENT

COUNCIL ACTION REQUIRED:

RECOMMENDATION AND STAFF SUMMARY:

BACKGROUND

On September 30, 2021, Governor Newsom signed into law Assembly Bill 481 (AB 481 or the Bill), codified at Government Code sections 7070 through 7075 (Attachment 1), which requires a law enforcement agency to obtain approval from the applicable governing body, via adoption of a “military equipment” use policy (the Policy) by ordinance (the Ordinance), prior to the law enforcement agency funding, acquiring, or using equipment deemed military equipment as defined in Assembly Bill 481.

Items deemed to be “military equipment” by AB 481 are used as a component of overall best practices for law enforcement agencies throughout the country. These tools have been tested in the field and are used by law enforcement agencies to enhance public and officer safety. None of the equipment in Gardena Police Department’s inventory has been obtained from the military, nor is it solely designated for military use. Loss of these items would jeopardize the welfare of citizens and peace officers within the Gardena Police Department.

The term “military equipment,” as used in AB 481, in fact, does not necessarily indicate the equipment that has been used by or acquired through the military. Pursuant to AB 481, items deemed to be “military equipment” include, but are not limited to, unmanned aerial or ground vehicles, armored vehicles, command and control vehicles, pepper balls, less lethal shotguns, less lethal 40mm projectile launchers, and diversionary devices.

The Gardena Police Department (GPD) is committed to using the most up-to-date tools and equipment to safeguard the citizens of Gardena. Many of the items deemed to be “military equipment” by AB 481 are in fact employed by GPD, and law enforcement agencies across the country, in order to specifically reduce risk to community members. These items provide peace officers with the ability to safely resolve volatile situations which otherwise might rise to the level of a lethal force encounter. To that end, the items at issue in this report, and accompanying Military Equipment Use Policy, also provide GPD’s peace officers with vital tools that facilitate compliance with its stringent use of force policy.

DISCUSSION

There is significant interest in ensuring that law enforcement continues to have access to equipment that will provide peace officers as many options as possible to safeguard lives, ensure safety, and protect civil liberties. The use of the tools identified below is vital to GPD’s mission and will continue to be strictly regulated through internal processes and oversight.

The proposed Ordinance (Attachment 2) is in compliance with AB 481 and is necessary to adopt in order to approve GPD’s Policy 706, which constitutes GPD’s Military Equipment Use Policy (Exhibit A to Attachment 2). As required by AB 481, the draft Policy was posted on the Police Department’s website on March 23, 2022, 30 days prior to the introduction of the Ordinance. Policy 706 outlines each item identified in Government Code section 7070, that is currently owned and utilized by the Police Department. The Policy also includes the current use and cost of each item. These particular items, and their stated uses, have been in place prior to the implementation of AB 481. Therefore, future acquisitions of any item deemed to be “military equipment” will require a further public meeting, policy update, and City Council approval.

The proposed Policy 706 safeguards the public’s welfare, safety, civil rights, and civil liberties. Policy 706 ensures that there are safeguards, including transparency, oversight, and accountability measures in place. For instance, Policy 706 requires that GPD conduct an annual audit of military equipment, and present a military equipment report at a yearly community meeting. Members of the public are provided direction per the Policy on how to register complaints with the Police Department related to its use of military equipment. All items which result in a use of force will be investigated, as is already required by existing GPD policy.

There are no reasonable alternatives to the items listed below as these are the best standards and practices. Additionally, GPD has not discovered alternative items that can achieve the same officer and civilian safety objectives. Therefore, each item's necessity is further described below:

- **Command & Control Recreational Vehicle (RV):** The Command & Control Recreational Vehicle is a motorhome. This RV will be deployed during critical incidents such as major disasters, pre-planned high-risk warrant operations, Crisis Negotiation Team operations, large-scale pre-planned events, natural disasters, and community outreach events. The RV provides mobility, sheltering, and logistical support during any of the previously mentioned incidents or scenarios.
- **Armored personnel carriers, Humvees, wheeled vehicles that have a breaching or entry apparatus:** Armored vehicles are used to provide ballistic protection to officers and citizens during a rescue, critical incidents, and other hazardous situations. These vehicles allow officers closer access to high-risk situations while substantially reducing the physical risk to the officers and citizens. These vehicles are built on commercial vehicle chassis and are primarily a reinforcement of civilian commercial vehicles. As such, there are no reasonable alternatives to providing the same level of ballistic protection.
- **Specialized firearms and ammunition, including assault weapons:** Patrol rifles, SWAT rifles, and sniper rifles enable officers when in compliance with the GPD's Use of Force Policy, to address medium to long-distance threats, or those threats who are heavily armed, protected by armor, or both. Further, in both short and long-distance deployments, they allow officers precision shot placement, minimizing the risk to officers and innocent citizens.
- **Diversionsary Devices:** Diversionsary Devices are used as a non-lethal device to disorient or divert a violent felon's attention away from officers. This can allow officers to gain safer access to a high-risk situation, giving extra time to assess and analyze existing threats. This can prevent injury to officers and citizens. These devices can often lead to a safer resolution and allow officers to take a citizen into custody without force. Diversionsary devices have become the industry standard and the best option for law enforcement when their use is reasonable and necessary.
- **Chemical Agents:** Chemical agents such as oleoresin capsicum (OC) are less lethal methods used to address violent or riotous crowds when there is a risk of physical safety. They are also used to safely gain compliance of a suspect from a fixed location or safely detain a suspect who poses a risk of violence to officers. Tear gas allows peace officers to deploy a less lethal chemical agent into a structure where other weapons would not be capable of doing so. These weapons are less lethal and afford peace officers an added option to avoid lethal force encounters. When these items are

reasonable and necessary for use, there is no alternative.

- **Specialty Impact Munitions (SIMs):** The 40mm launcher affords the ability to use less-lethal chemical agents and impact munition. This allows officers to address a threat from a greater distance and provides an alternative option for deadly force when reasonable. The bean bag shotgun also allows officers to confront a potentially armed or dangerous suspect at a longer distance. This can potentially prevent a deadly force encounter. When necessary, there is no alternative to these less lethal weapon systems.

All use of what has been deemed military equipment by AB 481 must be reasonably necessary and conform to the Gardena Police Department's use of force and other policies. All the facts and circumstances surrounding the incident must be carefully weighed and considered before authorizing the use of, and/or utilizing this equipment.

The proposed policy was posted on the Gardena Police Department's website on March 23, 2022.

The public hearing notice for this Ordinance was published in the Gardena Valley News on April 14, 2022.

On April 26, 2022, the City Council held a public hearing and introduced Ordinance No. 1841. The motion was made by Council Member Henderson and unanimously approved. The Gardena Department seeks City Council adoption of the attached Military Equipment Use Policy – 706 (Exhibit A to Proposed Ordinance No. 1841) to allow GPD to continue to use the vital equipment specified therein and allow neighboring police agencies to use military equipment in this jurisdiction when providing mutual-aid during exigent circumstances.

Staff recommends that the City Council adopt Ordinance No. 1841.

FINANCIAL IMPACT/COST:

There is no fiscal impact associated with adopting the Ordinance. There are no new financial considerations for existing military equipment and munitions.

ATTACHMENTS:

[Attachment 1 - AB 481.pdf](#)

APPROVED:

A handwritten signature in blue ink, appearing to read "Clint Osorio".

Clint Osorio, City Manager

Assembly Bill No. 481

CHAPTER 406

An act to add Chapter 12.8 (commencing with Section 7070) to Division 7 of Title 1 of the Government Code, relating to military equipment.

[Approved by Governor September 30, 2021. Filed with
Secretary of State September 30, 2021.]

LEGISLATIVE COUNSEL'S DIGEST

AB 481, Chiu. Law enforcement and state agencies: military equipment: funding, acquisition, and use.

Existing law designates the Department of General Services as the agency for the State of California responsible for distribution of federal surplus personal property, excepting food commodities, and requires the department to, among other things, do all things necessary to the execution of its powers and duties as the state agency for the distribution of federal personal surplus property, excepting food commodities, in accordance with specified federal law. Existing law, the Federal Surplus Property Acquisition Law of 1945, authorizes a local agency, as defined, to acquire surplus federal property without regard to any law which requires posting of notices or advertising for bids, inviting or receiving bids, or delivery of purchases before payment, or which prevents the local agency from bidding on federal surplus property. Existing federal law authorizes the Department of Defense to transfer surplus personal property, including arms and ammunition, to federal or state agencies for use in law enforcement activities, subject to specified conditions, at no cost to the acquiring agency.

This bill would require a law enforcement agency, defined to include specified entities, to obtain approval of the applicable governing body, by adoption of a military equipment use policy, as specified, by ordinance at a regular meeting held pursuant to specified open meeting laws, prior to taking certain actions relating to the funding, acquisition, or use of military equipment, as defined. The bill would also require similar approval for the continued use of military equipment acquired prior to January 1, 2022. The bill would allow the governing body to approve the funding, acquisition, or use of military equipment within its jurisdiction only if it determines that the military equipment meets specified standards. The bill would require the governing body to annually review the ordinance and to either disapprove a renewal of the authorization for a type, as defined, of military equipment or amend the military equipment use policy if it determines, based on an annual military equipment report prepared by the law enforcement agency, as provided, that the military equipment does not comply with the above-described standards for approval. The bill would specify these provisions do not preclude a county or local municipality from implementing

additional requirements and standards related to the purchase, use, and reporting of military equipment by local law enforcement agencies.

This bill would also require a state agency, as defined, to create a military equipment use policy before engaging in certain activities, publish the policy on the agency's internet website, and provide a copy of the policy to the Governor or the Governor's designee, as specified. The bill would also require a state agency that seeks to continue use of military equipment acquired prior to January 1, 2022, to create a military equipment use policy.

This bill would also include findings that the changes proposed by this bill address a matter of statewide concern rather than a municipal affair and, therefore, apply to all cities, including charter cities.

By adding to the duties of local officials with respect to the funding, acquisition, and use of military equipment, this bill would impose a state-mandated local program.

The California Constitution requires local agencies, for the purpose of ensuring public access to the meetings of public bodies and the writings of public officials and agencies, to comply with a statutory enactment that amends or enacts laws relating to public records or open meetings and contains findings demonstrating that the enactment furthers the constitutional requirements relating to this purpose.

This bill would make legislative findings to that effect.

The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.

This bill would provide that no reimbursement is required by this act for a specified reason.

The people of the State of California do enact as follows:

SECTION 1. The Legislature finds and declares all of the following:

(a) The acquisition of military equipment and its deployment in our communities adversely impacts the public's safety and welfare, including increased risk of civilian deaths, significant risks to civil rights, civil liberties, and physical and psychological well-being, and incurment of significant financial costs. Military equipment is more frequently deployed in low-income Black and Brown communities, meaning the risks and impacts of police militarization are experienced most acutely in marginalized communities.

(b) The public has a right to know about any funding, acquisition, or use of military equipment by state or local government officials, as well as a right to participate in any government agency's decision to fund, acquire, or use such equipment.

(c) Decisions regarding whether and how military equipment is funded, acquired, or used should give strong consideration to the public's welfare, safety, civil rights, and civil liberties, and should be based on meaningful public input.

(d) Legally enforceable safeguards, including transparency, oversight, and accountability measures, must be in place to protect the public's welfare, safety, civil rights, and civil liberties before military equipment is funded, acquired, or used.

(e) The lack of a public forum to discuss the acquisition of military equipment jeopardizes the relationship police have with the community, which can be undermined when law enforcement is seen as an occupying force rather than a public safety service.

SEC. 2. Chapter 12.8 (commencing with Section 7070) is added to Division 7 of Title 1 of the Government Code, to read:

CHAPTER 12.8. FUNDING, ACQUISITION, AND USE OF MILITARY
EQUIPMENT

7070. For purposes of this chapter, the following definitions shall apply:

(a) "Governing body" means the elected body that oversees a law enforcement agency or, if there is no elected body that directly oversees the law enforcement agency, the appointed body that oversees a law enforcement agency. In the case of a law enforcement agency of a county, including a sheriff's department or a district attorney's office, "governing body" means the board of supervisors of the county.

(b) "Law enforcement agency" means any of the following:

(1) A police department, including the police department of a transit agency, school district, or any campus of the University of California, the California State University, or California Community Colleges.

(2) A sheriff's department.

(3) A district attorney's office.

(4) A county probation department.

(c) "Military equipment" means the following:

(1) Unmanned, remotely piloted, powered aerial or ground vehicles.

(2) Mine-resistant ambush-protected (MRAP) vehicles or armored personnel carriers. However, police versions of standard consumer vehicles are specifically excluded from this subdivision.

(3) High mobility multipurpose wheeled vehicles (HMMWV), commonly referred to as Humvees, two and one-half-ton trucks, five-ton trucks, or wheeled vehicles that have a breaching or entry apparatus attached. However, unarmored all-terrain vehicles (ATVs) and motorized dirt bikes are specifically excluded from this subdivision.

(4) Tracked armored vehicles that provide ballistic protection to their occupants and utilize a tracked system instead of wheels for forward motion.

(5) Command and control vehicles that are either built or modified to facilitate the operational control and direction of public safety units.

(6) Weaponized aircraft, vessels, or vehicles of any kind.

(7) Battering rams, slugs, and breaching apparatuses that are explosive in nature. However, items designed to remove a lock, such as bolt cutters,

or a handheld ram designed to be operated by one person, are specifically excluded from this subdivision.

(8) Firearms of .50 caliber or greater. However, standard issue shotguns are specifically excluded from this subdivision.

(9) Ammunition of .50 caliber or greater. However, standard issue shotgun ammunition is specifically excluded from this subdivision.

(10) Specialized firearms and ammunition of less than .50 caliber, including assault weapons as defined in Sections 30510 and 30515 of the Penal Code, with the exception of standard issue service weapons and ammunition of less than .50 caliber that are issued to officers, agents, or employees of a law enforcement agency or a state agency.

(11) Any firearm or firearm accessory that is designed to launch explosive projectiles.

(12) “Flashbang” grenades and explosive breaching tools, “tear gas,” and “pepper balls,” excluding standard, service-issued handheld pepper spray.

(13) Taser Shockwave, microwave weapons, water cannons, and the Long Range Acoustic Device (LRAD).

(14) The following projectile launch platforms and their associated munitions: 40mm projectile launchers, “bean bag,” rubber bullet, and specialty impact munition (SIM) weapons.

(15) Any other equipment as determined by a governing body or a state agency to require additional oversight.

(16) Notwithstanding paragraphs (1) through (15), “military equipment” does not include general equipment not designated as prohibited or controlled by the federal Defense Logistics Agency.

(d) “Military equipment use policy” means a publicly released, written document governing the use of military equipment by a law enforcement agency or a state agency that addresses, at a minimum, all of the following:

(1) A description of each type of military equipment, the quantity sought, its capabilities, expected lifespan, and product descriptions from the manufacturer of the military equipment.

(2) The purposes and authorized uses for which the law enforcement agency or the state agency proposes to use each type of military equipment.

(3) The fiscal impact of each type of military equipment, including the initial costs of obtaining the equipment and estimated annual costs of maintaining the equipment.

(4) The legal and procedural rules that govern each authorized use.

(5) The training, including any course required by the Commission on Peace Officer Standards and Training, that must be completed before any officer, agent, or employee of the law enforcement agency or the state agency is allowed to use each specific type of military equipment to ensure the full protection of the public’s welfare, safety, civil rights, and civil liberties and full adherence to the military equipment use policy.

(6) The mechanisms to ensure compliance with the military equipment use policy, including which independent persons or entities have oversight

authority, and, if applicable, what legally enforceable sanctions are put in place for violations of the policy.

(7) For a law enforcement agency, the procedures by which members of the public may register complaints or concerns or submit questions about the use of each specific type of military equipment, and how the law enforcement agency will ensure that each complaint, concern, or question receives a response in a timely manner.

(e) “State agency” means the law enforcement division of every state office, officer, department, division, bureau, board, and commission or other state body or agency, except those agencies provided for in Article IV (except Section 20 thereof) or Article VI of the California Constitution.

(f) “Type” means each item that shares the same manufacturer model number.

7071. (a) (1) A law enforcement agency shall obtain approval of the governing body, by an ordinance adopting a military equipment use policy at a regular meeting of the governing body held pursuant to the Bagley-Keene Open Meeting Act (Article 9 (commencing with Section 11120) of Chapter 1 of Part 1 of Division 3 of Title 2) or the Ralph M. Brown Act (Chapter 9 (commencing with Section 54950) of Part 1 of Division 2 of Title 5), as applicable, prior to engaging in any of the following:

(A) Requesting military equipment made available pursuant to Section 2576a of Title 10 of the United States Code.

(B) Seeking funds for military equipment, including, but not limited to, applying for a grant, soliciting or accepting private, local, state, or federal funds, in-kind donations, or other donations or transfers.

(C) Acquiring military equipment either permanently or temporarily, including by borrowing or leasing.

(D) Collaborating with another law enforcement agency in the deployment or other use of military equipment within the territorial jurisdiction of the governing body.

(E) Using any new or existing military equipment for a purpose, in a manner, or by a person not previously approved by the governing body pursuant to this chapter.

(F) Soliciting or responding to a proposal for, or entering into an agreement with, any other person or entity to seek funds for, apply to receive, acquire, use, or collaborate in the use of, military equipment.

(G) Acquiring military equipment through any means not provided by this paragraph.

(2) No later than May 1, 2022, a law enforcement agency seeking to continue the use of any military equipment that was acquired prior to January 1, 2022, shall commence a governing body approval process in accordance with this section. If the governing body does not approve the continuing use of military equipment, including by adoption pursuant to this subdivision of a military equipment use policy submitted pursuant to subdivision (b), within 180 days of submission of the proposed military equipment use policy to the governing body, the law enforcement agency shall cease its use of

the military equipment until it receives the approval of the governing body in accordance with this section.

(b) In seeking the approval of the governing body pursuant to subdivision (a), a law enforcement agency shall submit a proposed military equipment use policy to the governing body and make those documents available on the law enforcement agency's internet website at least 30 days prior to any public hearing concerning the military equipment at issue.

(c) The governing body shall consider a proposed military equipment use policy as an agenda item for an open session of a regular meeting and provide for public comment in accordance with the Bagley-Keene Open Meeting Act (Article 9 (commencing with Section 11120) of Chapter 1 of Part 1 of Division 3 of Title 2) or the Ralph M. Brown Act (Chapter 9 (commencing with Section 54950) of Part 1 of Division 2 of Title 5), as applicable.

(d) (1) The governing body shall only approve a military equipment use policy pursuant to this chapter if it determines all of the following:

(A) The military equipment is necessary because there is no reasonable alternative that can achieve the same objective of officer and civilian safety.

(B) The proposed military equipment use policy will safeguard the public's welfare, safety, civil rights, and civil liberties.

(C) If purchasing the equipment, the equipment is reasonably cost effective compared to available alternatives that can achieve the same objective of officer and civilian safety.

(D) Prior military equipment use complied with the military equipment use policy that was in effect at the time, or if prior uses did not comply with the accompanying military equipment use policy, corrective action has been taken to remedy nonconforming uses and ensure future compliance.

(2) In order to facilitate public participation, any proposed or final military equipment use policy shall be made publicly available on the internet website of the relevant law enforcement agency for as long as the military equipment is available for use.

(e) (1) The governing body shall review any ordinance that it has adopted pursuant to this section approving the funding, acquisition, or use of military equipment at least annually and, subject to paragraph (2), vote on whether to renew the ordinance at a regular meeting held pursuant to the Bagley-Keene Open Meeting Act (Article 9 (commencing with Section 11120) of Chapter 1 of Part 1 of Division 3 of Title 2) or the Ralph M. Brown Act (Chapter 9 (commencing with Section 54950) of Part 1 of Division 2 of Title 5), as applicable.

(2) The governing body shall determine, based on the annual military equipment report submitted pursuant to Section 7072, whether each type of military equipment identified in that report has complied with the standards for approval set forth in subdivision (d). If the governing body determines that a type of military equipment identified in that annual military equipment report has not complied with the standards for approval set forth in subdivision (d), the governing body shall either disapprove a renewal of the authorization for that type of military equipment or require modifications

to the military equipment use policy in a manner that will resolve the lack of compliance.

(f) Notwithstanding subdivisions (a) to (e), inclusive, if a city contracts with another entity for law enforcement services, the city shall have the authority to adopt a military equipment use policy based on local community needs.

7072. (a) A law enforcement agency that receives approval for a military equipment use policy pursuant to Section 7071 shall submit to the governing body an annual military equipment report for each type of military equipment approved by the governing body within one year of approval, and annually thereafter for as long as the military equipment is available for use. The law enforcement agency shall also make each annual military equipment report required by this section publicly available on its internet website for as long as the military equipment is available for use. The annual military equipment report shall, at a minimum, include the following information for the immediately preceding calendar year for each type of military equipment:

(1) A summary of how the military equipment was used and the purpose of its use.

(2) A summary of any complaints or concerns received concerning the military equipment.

(3) The results of any internal audits, any information about violations of the military equipment use policy, and any actions taken in response.

(4) The total annual cost for each type of military equipment, including acquisition, personnel, training, transportation, maintenance, storage, upgrade, and other ongoing costs, and from what source funds will be provided for the military equipment in the calendar year following submission of the annual military equipment report.

(5) The quantity possessed for each type of military equipment.

(6) If the law enforcement agency intends to acquire additional military equipment in the next year, the quantity sought for each type of military equipment.

(b) Within 30 days of submitting and publicly releasing an annual military equipment report pursuant to this section, the law enforcement agency shall hold at least one well-publicized and conveniently located community engagement meeting, at which the general public may discuss and ask questions regarding the annual military equipment report and the law enforcement agency's funding, acquisition, or use of military equipment.

7073. (a) A state agency shall create a military equipment use policy prior to engaging in any of the following:

(1) Requesting military equipment made available pursuant to Section 2576a of Title 10 of the United States Code.

(2) Seeking funds for military equipment, including, but not limited to, applying for a grant, soliciting or accepting private, local, state, or federal funds, in-kind donations, or other donations or transfers.

(3) Acquiring military equipment either permanently or temporarily, including by borrowing or leasing.

(4) Collaborating with a law enforcement agency or another state agency in the deployment or other use of military equipment within the territorial jurisdiction of the governing body.

(5) Using any new or existing military equipment for a purpose, in a manner, or by a person not previously approved by the governing body pursuant to this chapter.

(6) Soliciting or responding to a proposal for, or entering into an agreement with, any other person or entity to seek funds for, or to apply to receive, acquire, use, or collaborate in the use of, military equipment.

(7) Acquiring military equipment through any means not provided by this subdivision.

(b) No later than May 1, 2022, a state agency seeking to continue the use of any military equipment that was acquired prior to January 1, 2022, shall create a military equipment use policy.

(c) A state agency that is required to create a military equipment use policy pursuant to this section shall do both of the following within 180 days of completing the policy:

(1) Publish the military equipment use policy on the agency's internet website.

(2) Provide a copy of the military equipment use policy to the Governor or the Governor's designee.

7074. The Legislature finds and declares that ensuring adequate oversight of the acquisition and use of military equipment is a matter of statewide concern rather than a municipal affair as that term is used in Section 5 of Article XI of the California Constitution. Therefore, this chapter applies to all cities, including charter cities and shall supersede any inconsistent provisions in the charter of any city, county, or city and county.

7075. Nothing in this chapter shall preclude a county or local municipality from implementing additional requirements and standards related to the purchase, use, and reporting of military equipment by local law enforcement agencies.

SEC. 3. The Legislature finds and declares that Section 1 of this act, which adds Chapter 12.8 (commencing with Section 7070) to Division 7 of Title 1 of the Government Code, furthers, within the meaning of paragraph (7) of subdivision (b) of Section 3 of Article I of the California Constitution, the purposes of that constitutional section as it relates to the right of public access to the meetings of local public bodies or the writings of local public officials and local agencies. Pursuant to paragraph (7) of subdivision (b) of Section 3 of Article I of the California Constitution, the Legislature makes the following findings:

Requiring local agencies to hold public meetings prior to the acquisition of military equipment further exposes that activity to public scrutiny and enhances public access to information concerning the conduct of the people's business.

SEC. 4. No reimbursement is required by this act pursuant to Section 6 of Article XIII B of the California Constitution because the only costs that may be incurred by a local agency or school district under this act would

result from a legislative mandate that is within the scope of paragraph (7) of subdivision (b) of Section 3 of Article I of the California Constitution.

O

ORDINANCE NO. 1841

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, ADOPTING A MILITARY EQUIPMENT USE POLICY OF THE CITY OF GARDENA, CALIFORNIA GOVERNING THE USE OF MILITARY EQUIPMENT PURSUANT TO ASSEMBLY BILL 481.

THE CITY COUNCIL OF THE CITY OF GARDENA DOES HEREBY FIND AND RESOLVE AS FOLLOWS:

WHEREAS, on September 30, 2021, Governor Gavin Newsom signed into law Assembly Bill 481 ("AB 481"), adding Chapter 12.8, "Funding, Acquisition and Use of Military Equipment", to Division 7 of Title 1 of the Government Code (sections 7070 – 7075), relating to the use of military equipment by California law enforcement agencies; and

WHEREAS, AB 481 seeks to provide transparency, oversight, and an opportunity for meaningful public input on decisions regarding whether and how military equipment is funded, acquired, or used; and

WHEREAS, the Gardena Police Department is in possession of certain items of equipment that qualify as "military equipment" under AB 481 and further intends to acquire other items of military equipment; and

WHEREAS, AB 481 requires, inter alia, that a law enforcement agency possessing and using such qualifying equipment must prepare a publicly released, written, military equipment use policy document covering the inventory, description, quantity, purpose, capabilities, use, lifespan, acquisition, maintenance, authorized use, fiscal impacts, procedures, training, oversight, and complaint process, applicable to the Department's use of such equipment; and

WHEREAS, pursuant to Government Code section 7071(a)(2), if seeking to continue the use of any military equipment that was acquired prior to January 1, 2022, the Gardena Police Department was obligated to, and has met the requirement, of commencing a City Council approval process for the Military Equipment Use Policy no later than May 1, 2022; and

WHEREAS, as further required by Government Code section 7071(a)(2), if the City Council does not approve the continuing use of military equipment, including by adoption pursuant to a Military Equipment Use Policy, within 180 days of submission of the proposed Military Equipment Use Policy to City Council, the Gardena Police Department shall cease its use of the military equipment until it receives the approval of City Council in accordance with this Ordinance; and

WHEREAS, Government Code Section 7071(b) requires that the Gardena Police Department post to its website the Military Equipment Use Policy that it plans to propose to the City Council, at least 30 days prior to any public hearing concerning the policy; and

WHEREAS, the Gardena Police Department has prepared a proposed Military Equipment Policy ("Policy"), attached hereto as Exhibit "A" and incorporated herein; and

WHEREAS, on March 23, 2022, the Gardena Police Department posted its draft Military Equipment Use Policy to its public website, thereby complying with the 30-day posting requirement prior to a public hearing before City Council on April 26, 2022; and

WHEREAS, the policy must be approved by the City Council by ordinance, and reviewed annually thereafter; and

WHEREAS, the military equipment inventoried and presented to the City Council is necessary because there is no reasonable alternative that can achieve the same objective of officer and civilian safety;

WHEREAS, the proposed Military Equipment Use Policy will safeguard the public's health, welfare, safety, civil rights, and civil liberties;

WHEREAS, the equipment is reasonably cost effective compared to available alternatives that can achieve the same objective of officer and civilian safety;

WHEREAS, prior military equipment use complied with the applicable equipment use policy (which included equipment now defined as military equipment) that was in effect at the time, or if prior uses did not comply with the accompanying military equipment use policy, corrective action has been taken to remedy nonconforming uses and ensure future compliance;

WHEREAS, the Police Department has submitted the proposed Policy to the City Council and thereafter has made those documents available on the Police Department's website for at least 30 days prior to the public hearing concerning the military equipment at issue;

WHEREAS, the Policy satisfies the requirements of Government Code Section 7070(d);

WHEREAS, the City Council of the City of Gardena, having received the information required under AB 481 regarding the Gardena Police Department's use of military equipment as defined in said law, deems it to be in the best interest of the City to and hereby does approve the Military Equipment Policy.

WHEREAS, all legal prerequisites prior to the adoption of this Ordinance have occurred.

NOW THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDENA, DOES HERBY ORDAIN AS FOLLOWS:

SECTION 1: Recitals. The City Council finds that all the recitals, facts, findings, and conclusions set forth above in the preamble of this Ordinance are true and correct.

SECTION 2: Approval of Military Equipment Policy.

Military Equipment Policy.

- (a) The Military Equipment Policy shall govern the use of military equipment by the Gardena Police Department. The Policy is attached to this Ordinance as Exhibit A.
- (b) The Policy shall be made publicly available on the Police Department's website for as long as the military equipment is available for use or as otherwise ordained by the City Council.
- (c) The Police Department shall submit an annual military equipment report to the City Council containing the information required by Government Code Section 7072 and the City Council shall thereafter determine whether each type of military equipment identified therein complied with the standards for approval set forth in Government Code Section 7071(d).
- (d) The City Council shall on an annual basis and at a regular meeting thereof review this ordinance and vote on whether to renew it pursuant to Government Code Section 7071(e)(2).
- (e) The definitions set forth in Government Code section 7070 shall apply to this ordinance. Any provision of state law referred to herein shall mean and include any amended or successor provision thereof.

SECTION 3: Compliance with CEQA. Adoption of this Ordinance is exempt from the California Environmental Quality Act (CEQA) pursuant to Section 15061 (b)(3) (General Rule) of the CEQA Guidelines because it is not a "project" and because it can be seen with certainty that there is no possibility that the passage of this Ordinance will have a significant effect on the environment.

SECTION 4: Inconsistencies. Any provision of the Gardena Municipal Code or appendices thereto inconsistent with the provisions of this Ordinance, to the extent of such inconsistencies and no further, is hereby repealed or modified to that extent necessary to affect the provisions of this Ordinance.

SECTION 5: Uncodified Ordinance. This Ordinance shall not be codified in the Gardena Municipal Code unless and until the City Council so ordains.

SECTION 6: Severability. If any chapter, article, section, subsection, subdivision, sentence, clause, phrase, word, or portion of this Ordinance, or the application thereof to any person, is for any reason held to be invalid or unconstitutional by the decision of any court of competent jurisdiction, such decision shall not affect the validity of the remaining portion of this Ordinance or its application to other persons. The City Council hereby declares that it would have adopted this Ordinance and each chapter, article, section, subsection, subdivision, sentence, clause, phrase, word, or portion thereof, irrespective of the fact that any one or more subsections, subdivisions, sentences, clauses, phrases, or portions of the application thereof to any person, be declared

invalid or unconstitutional. No portion of this Ordinance shall supersede any local, state, or federal law, regulation, or codes dealing with life safety factors.

SECTION 7: Effective Date. This ordinance shall be in full force and effect thirty (30) days after its second reading and adoption.

SECTION 8: Certification. The City Clerk shall certify the passage of this ordinance and shall cause the same to be entered in the book of original ordinances of said City; shall make a minute passage and adoption thereof in the records of the meeting at which time the same is passed and adopted; and shall, within fifteen (15) days after the passage and adoption thereof, cause the same to be published as required by law, in a publication of general circulation.

APPROVED AND ADOPTED on this ____ day of _____, 2022.

TASHA CERDA, Mayor

ATTEST:

MINA SEMENZA, City Clerk

APPROVED AS TO FORM:



CARMEN VASQUEZ, City Attorney

EXHIBIT A

MILITARY EQUIPMENT POLICY

Military Equipment

706.1 PURPOSE AND SCOPE

State

The purpose of this policy is to provide guidelines for the approval, acquisition, and reporting requirements of military equipment (Government Code § 7070; Government Code § 7071; Government Code § 7072).

706.1.1 DEFINITIONS

State

Definitions related to this policy include (Government Code § 7070):

Governing body – The elected or appointed body that oversees the Department.

Military equipment – Includes but is not limited to the following:

- Unmanned, remotely piloted, powered aerial or ground vehicles.
- Mine-resistant ambush-protected (MRAP) vehicles or armored personnel carriers.
- High mobility multipurpose wheeled vehicles (HMMWV), two-and-one-half-ton trucks, five-ton trucks, or wheeled vehicles that have a breaching or entry apparatus attached.
- Tracked armored vehicles that provide ballistic protection to their occupants.
- Command and control vehicles that are either built or modified to facilitate the operational control and direction of public safety units.
- Weaponized aircraft, vessels, or vehicles of any kind.
- Battering rams, slugs, and breaching apparatuses that are explosive in nature. This does not include a handheld, one-person ram.
- Firearms and ammunition of .50 caliber or greater, excluding standard-issue shotguns and standard-issue shotgun ammunition.
- Specialized firearms and ammunition of less than .50 caliber, including firearms and accessories identified as assault weapons in Penal Code § 30510 and Penal Code § 30515, with the exception of standard-issue firearms.
- Any firearm or firearm accessory that is designed to launch explosive projectiles.
- Noise-flash diversionary devices and explosive breaching tools.
- Munitions containing tear gas or OC, excluding standard, service-issued handheld pepper spray.
- TASER® Shockwave, microwave weapons, water cannons, and long-range acoustic devices (LRADs).
- Kinetic energy weapons and munitions.
- Any other equipment as determined by a governing body or a state agency to require additional oversight.

Gardena Police Department

Gardena Policy Manual

Military Equipment

706.2 POLICY

State

It is the policy of the Gardena Police Department that members of this department comply with the provisions of Government Code § 7071 with respect to military equipment.

706.3 MILITARY EQUIPMENT COORDINATOR

Best Practice

The Chief of Police should designate a member of this department to act as the military equipment coordinator. The responsibilities of the military equipment coordinator include but are not limited to:

- (a) Acting as liaison to the governing body for matters related to the requirements of this policy.
- (b) Identifying department equipment that qualifies as military equipment in the current possession of the Department, or the equipment the Department intends to acquire that requires approval by the governing body.
- (c) Conducting an inventory of all military equipment at least annually.
- (d) Collaborating with any allied agency that may use military equipment within the jurisdiction of Gardena Police Department (Government Code § 7071).
- (e) Preparing for, scheduling, and coordinating the annual community engagement meeting to include:
 - 1. Publicizing the details of the meeting.
 - 2. Preparing for public questions regarding the department's funding, acquisition, and use of equipment.
- (f) Preparing the annual military equipment report for submission to the Chief of Police and ensuring that the report is made available on the department website (Government Code § 7072).
- (g) Establishing the procedure for a person to register a complaint or concern, or how that person may submit a question about the use of a type of military equipment, and how the Department will respond in a timely manner.

706.4 MILITARY EQUIPMENT INVENTORY

State

The following constitutes a list of qualifying equipment for the Department:

ARMORED VEHICLES

Type: *Lenco BearCat G2 (FORD F-550 CHASSIS; VIN: 1FDAF5HT5DEB79977)*

Quantity: 1

Cost: \$259,932.03 (estimated)

Lifespan: 20+ years based on maintenance and care (estimated)

Gardena Police Department

Gardena Policy Manual

Military Equipment

Capabilities: The Lenco BearCat G2 can support first responders in any hazardous, high-risk, or critical incidents which would benefit from having a vehicle that provides a high level of ballistic protection.

Manufacturer's Description: The Lenco BearCat G2 is the standard tactical armored vehicle for special operations units within the US Law Enforcement community. Since the early 2000s, agencies such as LAPD, LASD SEB, NYPD ESU, Boston PD and hundreds of Federal, State and Local Law Enforcement agencies have made the BearCat G2 part of their standard operating procedure. The G2 has excellent on-road driving characteristics and maneuverability in tight urban settings. The large floor plan seats 10 – 12 fully equipped officers with a long list of tactical features only found on the Lenco BearCat line of armored SWAT vehicles for Police and Government.

Purpose: The purpose of the BearCat is to provide protection for the members of the Gardena Police Department and community members in high risk or critical incidents, such as serving high risk search warrants, arrest warrants of dangerous subjects, the safe transportation of law enforcement officers and for the rescue of injured residents and personnel.

Authorized Use: The use of armored vehicles shall be authorized by a watch commander or SWAT commander, based on the specific circumstances of a given critical incident. Armored vehicles shall be used only by officers trained in their deployment and in a manner consistent with Department policy and training.

Fiscal Impact: \$0 – 10,000 (estimated for maintenance)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize this equipment only for official law enforcement purposes and pursuant to State and Federal law.

Training: All drivers/operators shall attend formalized instruction and be trained in vehicle operations and practical driving instruction.

Type: *Major Incident Response Vehicle (MIRV) (FORD E-350 CHASSIS WITH MARATHON INDUSTRIES UTILITY BED "BOX STYLE"; VIN: 1FDWE35L87DA27297)*

Quantity: 1

Cost: \$60,000.00 (estimated)

Lifespan: 15+ years based on maintenance and care (estimated)

Capabilities: The MIRV is a custom-built vehicle used by SWAT personnel to transport the tools used by the SWAT Team. The MIRV can also serve as a mobile command post for SWAT operations. The MIRV seats two department personnel.

Manufacturer's Description: N/A

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Military Equipment

Purpose: To be used in response to critical incidents where SWAT personnel are deployed. The equipment transported by the MIRV is used to enhance officer and community safety and assist in resolving critical incidents.

Authorized Uses: The use of the MIRV shall only be authorized by a SWAT commander based on the specific circumstances of a given critical incident. The MIRV shall be used only by officers trained in its deployment and operation in a manner consistent with Department policy and training.

Fiscal Impact: \$0 – 10,000.00 (estimated for maintenance)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize this equipment only for official law enforcement purposes and pursuant to State and Federal law.

Training: Every SWAT operator is authorized to operate the MIRV.

Type: *Mobile Command Center Recreational Vehicle (RV) (2014 THOR OUTLAW 37LS)*

Quantity: 1

Cost: \$102,865.00 (estimated)

Lifespan: 15+ years based on maintenance and care (estimated)

Capabilities: The Mobile Command Center RV is a community meeting center as well as a command vehicle for emergency incidents.

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Gardena Policy Manual

Military Equipment

Manufacturer's Description:

Engine Brand Name	Triton®
Engine Type	V10
Cylinders	10
Horsepower (bhp/kW)	362 / 270.1
Horsepower RPM	4750
Torque (Ft Lbs/Nm)	457 / 619.6
Torque RPM	3250
Fuel Requirements	Regular
Fuel Type	Gas
Chassis Model	F-Series Super Duty
Chassis Brand	Ford
Displacement (l)	6.8
Carburetion Type	Fuel Injected
Length (ft/m)	38.33 / 11.7
Width (in/mm)	101 / 2565.4
Height (in/mm)	155 / 3937
Wheelbase (in/mm)	242 / 6146.8
Towing Capacity (lbs/kgs)	5000 / 2268
GVWR (lbs/kgs)	24000 / 10886.4
Fuel Capacity (gal/l)	80 / 302

Purpose: To be used in response to critical incidents where personnel are deployed. It can also be used as a community meeting center.

Authorized Uses: The use of the RV can be used as a community meeting center or for critical incidents. If for a critical incident, it shall only be authorized by an Incident Commander based on the specific circumstances of a given critical incident. The RV shall be used only by officers trained in its deployment and in a manner consistent with Department policy and training.

Fiscal Impact: \$0 – 10,000.00 (estimated for maintenance)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize this equipment only for official law enforcement purposes and pursuant to State and Federal law.

Training: The RV shall be used only by officers trained in its deployment and in a manner consistent with Department policy and training.

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PROJECTILES

Type: 40mm Sponge Rounds (Part #6325)

Quantity: Not to Exceed 1000

Cost: \$17.00 each (estimated)

Lifespan: 5 years from date of manufacture

Capability: The 40mm eXact iMPact™ Sponge Round will prove most successful for incapacitation when used within its optimal energy range of approximately 5 – 40 meters, although it may be used in situations from 1.5 – 50 meters. The optimal zone offers the necessary energy and accuracy to target the large muscle groups of the buttocks, thigh, and even the knees of the subject. These areas provide sufficient pain stimulus, while greatly reducing serious or life-threatening injuries.

Manufacturer's Description: This lightweight, high-speed projectile incorporates a plastic body and a foam (sponge) nose which is spin stabilized via the incorporated rifling collar and the 40mm launcher's rifled barrel. The round utilizes smokeless powder as the propellant and has velocities that are extremely consistent. The 40mm eXact iMPact™ Sponge Round is a "point-of-aim, point-of-impact" direct fire round that is most commonly used by tactical teams in situations where maximum deliverable energy is desired for the incapacitation of an aggressive, non-compliant subject. In many municipalities, these are being selected for both tactical call outs and as an available option for patrol.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.

Authorized Uses: Situations for use of the non-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Fiscal Impact: \$0 – 17,000.00 (estimated)

Policy and Procedure: Lexipol Policy 303 Control Devices and Techniques

Training: Sworn personnel utilizing 40mm less-lethal chemical agents or impact rounds are trained in their use by certified less lethal and chemical agent instructors.

Type: 40mm Oleoresin Capsicum (OC) (Part #-6320)

Quantity: Not to Exceed 100

Cost: \$18.25 each (estimated)

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Lifespan: 5 years from date of manufacture

Capability: The 40mm Direct Impact munition is a less lethal 40mm lightweight plastic and crushable foam projectile fired from a single 40mm launcher. It delivers OC irritant upon impact.

Manufacturer's Description: The 40mm Direct Impact® munition is a point-of-aim, point-of-impact direct-fire round. An excellent solution whether you need to incapacitate a single subject or control a crowd. When loaded with OC powder, the Direct Impact combines blunt trauma with the effects of an irritant powder, maximizing the potential for incapacitation.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.

Authorized Uses: Situations for use of the non-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Fiscal Impact: \$0 – 1,825.00 (estimated)

Policy and Procedure: Lexipol Policy 303 Control Devices and Techniques

Training: Only SWAT operators or members of the Mobile Field Force Team who have completed the required POST training shall be permitted to deploy the 40mm OC. Use is established by the SWAT Commander and/or Incident Commander.

Type: 40mm Oleoresin Capsicum (OC) Ferret (Part # 2290)

Quantity: Not to Exceed 100

Cost: \$20.06 each (estimated)

Lifespan: 5 years from date of manufacture

Capability: It is capable of penetrating barriers, such as windows, hollow core doors, wallboard, and thin plywood. Upon impact the nose of the projectile ruptures and instantaneously delivers the agent payload inside a structure or vehicle.

Manufacturer's Description: The Ferret® 40 mm Barricade Penetrating Round is filled with an OC powder chemical agent. It is a frangible projectile that is spin stabilized utilizing barrel rifling. It is non-burning and designed to penetrate barriers. Primarily used by tactical teams, it is designed to penetrate barriers, such as windows, hollow core doors, wallboard, and thin plywood. Upon impact the nose of the projectile ruptures and instantaneously delivers the agent payload inside a structure or vehicle.

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Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.

Authorized Uses: Situations for use of the non-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Fiscal Impact: \$0 – 2,006.00 (estimated)

Policy and Procedure: Lexipol Policy 303 Control Devices and Techniques

Training: SWAT operators utilizing 40mm less-lethal chemical agents or impact rounds are trained in their use by certified less-lethal and chemical agent instructors.

Type: 40mm CS Ferret (Part # 2292)

Quantity: Not to Exceed 100

Cost: \$19.44 each (estimated)

Lifespan: 5 years from date of manufacture

Capability: The 40mm CS Ferret is a less lethal 40mm round used to penetrate barriers, such as windows, hollow core doors, wallboard, and thin plywood. Upon impacting the barrier, the nose cone ruptures and instantaneously delivers a small chemical payload inside of a structure of vehicle.

Manufacturer's Description: The Ferret® 40 mm Barricade Penetrating Round is filled with a CS powder chemical agent. It is a frangible projectile that is spin stabilized utilizing barrel rifling. It is non-burning and designed to penetrate barriers. Primarily used to dislodge barricaded subjects, it can also be used for area denial. Primarily used by tactical teams, it is designed to penetrate barriers, such as windows, hollow core doors, wallboard and thin plywood. Upon impact the nose of the projectile ruptures and instantaneously delivers the agent payload inside a structure or vehicle.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.

Authorized Uses: Situations for use of the non-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Fiscal Impact: \$0 – 1,944.00 (estimated)

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Policy and Procedure: Lexipol Policy 303 Control Devices and Techniques

Training: SWAT operators utilizing 40mm less-lethal chemical agents or impact rounds are trained in their use by certified less-lethal and chemical agent instructors.

Type: *Projectile Pepper Ball Munition (Inert)*

Quantity: Not to Exceed 10,000

Cost: \$853.00 (375 rounds) (estimated)

Lifespan: 3 years from date of manufacture

Capabilities: This projectile can travel at a velocity of 280-300 fps and is best suited for training, qualifications, and direct impact when chemical exposure is not desired.

Manufacturer's Description: Containing a harmless, scented powder, this projectile is best suited for training, qualifications, and direct impact when chemical exposure is not desired.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable. Situations for use of the non-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Authorized Uses: Only those officers who have been trained in the use of Pepper Ball launchers are authorized to use the Pepper Ball launchers and munitions. All other Gardena Police Department policies remain in effect, including, but not limited to, Gardena Police Department Policy 300 – Use of Force.

Fiscal Impact: \$0 – 22,178.00 (estimated)

Policy and Procedure: Lexipol Policy 303 Control Devices and Techniques

Training: SWAT operators and members of the Mobile Field Force Team utilizing Pepper Ball launchers and munitions are trained in their use by a POST-certified, less-lethal and chemical agent instructor.

Type: *Live-X Projectile Pepper Ball Munition (Live-X)*

Quantity: Not to Exceed 2250

Cost: \$1,060.00 each (375 rounds) (estimated)

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Lifespan: 3 years from date of manufacture

Capabilities: This projectile can travel at 280-300 fps with a payload of 2.5 grams. It is the equivalent of 10 regular Pepper Ball Live™ rounds.

Manufacturer's Description: Our most potent and powerful concentration of PAVA pepper powder. One round of LIVE-XTM contains the equivalent PAVA irritant chemical agent in 10 regular Pepper Ball® LIVETM rounds.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable. Situations for use of the non-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Authorized Uses: Only those officers who have been trained in the use of Pepper Ball launchers are authorized to use the Pepper Ball launchers and munitions. All other Gardena Police Department policies remain in effect, including, but not limited to, Gardena Police Department Policy 300 – Use of Force.

Fiscal Impact: \$0 – 6,360.00 (estimated)

Policy and Procedure: Lexipol Policy 303 Control Devices and Techniques

Training: SWAT operators and members of the Mobile Field Force Team utilizing Pepper Ball launchers and munitions are trained in their use by a POST-certified, less-lethal and chemical agent instructor.

PROJECTILE LAUNCHERS

Type: *Defense Technology 40mm Launcher (Part #1425)*

Quantity: Not to Exceed 40

Cost: \$1,193.23 each (estimated)

Lifespan: 25 years (estimated)

Capabilities: 40mm launchers are capable of firing a variety of munitions with a maximum effective range of 120 feet. 40mm launchers can deliver 40mm munitions in the form of chemical agents, sponge baton rounds, or combined use sponge baton Oleoresin Capsicum (OC) chemical round agent rounds.

Manufacturer's Description: Manufactured exclusively for Defense Technology®, the 40LMTS is a tactical single shot launcher that features an expandable ROGERS Super Stoc and an adjustable Integrated Front Grip (IFG) with light rail. The ambidextrous Lateral Sling Mount (LSM) and QD mounting systems allow both a single and two point sling

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attachment. The 40LMTS will fire standard 40mm less lethal ammunition, up to 4.8 inches in cartridge length. The Picatinny Rail Mounting System will accept a wide array of enhanced optics/sighting systems.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.

Authorized Uses: Situations for the use of the less-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; crowd control and civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Fiscal Impact: \$0 - \$47,729.20 (estimated)

Policy and Procedure: Lexipol Policy 303 Control Devices and Techniques

Training: Sworn personnel utilizing 40mm less-lethal chemical agents or impact rounds are trained in their use by certified less lethal and chemical agent instructors.

Type: *Defense Technology 40mm 4 or 6-Shot Launcher (Part # 1440)*

Quantity: Not to Exceed 2

Cost: \$2,783.88 each (estimated)

Lifespan: 15 years (estimated)

Capabilities: 40mm launchers are capable of firing a variety of munitions with a maximum effective range of 120 feet. 40mm launchers can deliver 40mm munitions in the form of chemical agents, sponge baton rounds, or combined use sponge baton Oleoresin Capsicum (OC) chemical round agent rounds.

Manufacturer's Description: Designed for riot and tactical situations, the Defense Technology® 1440 40mm Tactical 4-Shot Launcher is low-profile and lightweight, providing multi-shot capability in an easy to carry launcher. It features the Rogers Super Stoc™ expandable gun stock, an adjustable Picatinny mounted front grip, and a unique direct-drive system to advance the magazine cylinder.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.

Authorized Uses: Situations for the use of the less-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; crowd control and civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

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Fiscal Impact: \$0 – 5,567.76 (estimated)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize this equipment only for official law enforcement purposes and pursuant to State and Federal law.

Training: SWAT operators and members of the Mobile Field Force Team utilizing 40mm less-lethal chemical agents or impact rounds are trained in their use by certified less lethal and chemical agent instructors.

Type: *Pepper Ball Launchers (Full Tactical Carbine (FTC))*

Quantity: Not to Exceed 8 launchers

Cost: \$999.95 each (estimated)

Lifespan: 20 years (estimated)

Capabilities: A non-lethal munitions system that employs paint ball launchers to fire “pepper balls” that contain powdered OC in place of the paint. The pepper ball delivery system combines chemical agent exposure with kinetic energy impact to aid in its effectiveness in addressing armed and/or violent individuals or crowds. Pepper ball munitions also include glass breaking rounds and marking rounds.

Manufacturer’s Description: Pepper Ball launchers are designed for minimum time between launches and quick reload speed, so whether in a crowd control scenario, tactical or even Mobile Field Force situation, the Pepper Ball system offers flexibility, safety and security, all within one platform. Launchers range from a compact lightweight hand-held style that fits on a standard duty belt to a longer barreled shoulder-mounted launcher with greater range and projectile capacity. Each launcher is air powered, with either carbon dioxide (CO2), nitrogen, or compressed air powering the launch of projectiles. Pepper Ball launchers are not classified as firearms.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable. Situations for use of the less lethal weapons systems may include, but are not limited to self-destructive, dangerous and/or combative individuals; civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Authorized Uses: Only those SWAT operators or members of the Mobile Field Force Team who have been trained in the use of Pepper Ball launchers are authorized to use the Pepper Ball launchers.

Fiscal Impact: \$0 - 7,999.60 (estimated)

Policy and Procedure: Lexipol Policy 303 Control Devices and Techniques

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Training: Only assigned operators or members of the Mobile Field Force Team who have completed the required training from POST-certified instructors shall be permitted to deploy the Pepper Ball Launchers and Pepper Ball Munitions. Use is established by the SWAT Commander and/or Incident Commander.

AMMUNITION

Type: *Duty: Winchester Ranger, .223 Remington 55 grain pointed soft point*
Range: Winchester 5.66mm, 55 grain Full Metal Jacket

Quantity: Duty Not to Exceed: 10,000 rounds
Range Not to Exceed: 10,000 rounds

Cost: Duty: \$0.57 per round, \$572.00 for 1000 rounds (estimated)
Range: \$0.37 per round, \$378.00 per 1000 rounds (estimated)

Lifespan: 5 years from date of purchase

Capabilities: The projectile is capable of penetrating soft body armor being worn by armed subjects.

Manufacturer's Description: The .223/5.66 cartridge is used as a lethal option designed to stop a violent encounter.

Purpose: To be utilized with the AR 15/M4 Carbine/HK 416 in accordance with Department policy.

Authorized Uses: To be utilized with the AR 15/M4 Carbine/HK 416 in accordance with Department policy.

Fiscal Impact: Duty: \$0 – 5,720.00 (estimated)
Range: \$0 – 3,780.00 (estimated)

Policy and Procedure: Lexipol Policy 306 Firearms Policy

Training: All sworn personnel are trained by POST-certified firearms instructors for the use M4 and AR 15s. SWAT operators receive additional training from POST-certified firearms instructors in the operation of the HK 416.

Type: *Defense Technology 12-Gauge Drag Stabilized Round (Part # 3027)*

Quantity: Not to Exceed 250

Cost: \$5.82 each (estimated)

Lifespan: 5 years from manufacture date

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Capabilities: This round has a velocity of 270 fps with a maximum effective range of 75 feet.

Manufacturer's Description: The Drag Stabilized™ 12-Gauge Round is a translucent 12-Gauge shell loaded with a 40-Gram tear shaped bag made from a cotton and ballistic material blend and filled with #9 shot. This design utilizes four stabilizing tails and utilizes smokeless powder as the propellant. The 12-Gauge Drag Stabilized Round has secured its place as the Law Enforcement Communities' number one choice for specialty impact munitions.

Purpose: To limit the escalation of conflict where the employment of lethal force is prohibited or undesirable.

Authorized Uses: Situations for use of the non-lethal weapon, the Remington 870, system may include, but are not limited to: self-destructive, dangerous, and/or combative individuals; civil unrest incidents; potentially vicious animals; and training exercises or approved demonstrations.

Fiscal Impact: \$0 – 1,455.00 (estimated)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize this equipment only for official law enforcement purposes and pursuant to State and Federal law.

Training: Only sworn personnel who have completed the required POST training shall be permitted to deploy the Defense Technology 12-Gauge Drag Stabilized Round.

Type: .308 Caliber Rifle Ammunition (Winchester S308M)

Quantity: Not to Exceed 2,000

Cost: \$1.29 each (case of 200 rounds \$259.00) (estimated)

Lifespan: 5 years from manufacture date

Capabilities: This ammunition enables SWAT long rifle operators the ability to engage hostile suspects at a distance with precision rifle fire.

Manufacturer's Description: Designed for use in rifles equipped with fast twist (1:7" to 1:9") barrels; Match-style Bullet - Proven performance and extreme accuracy on the range; Proven Hollow Point Boattail Design - Sleek profile, large boattail and small hollow point maximizes long-range accuracy.

Purpose: To be used with the Remington 700 or Remington R10.

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Authorized Uses: The .308 Caliber Rifle Ammunition is authorized when used by the Remington 700 or Remington R10.

Fiscal Impact: \$0 – 2,590.00 (estimated)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize this equipment only for official law enforcement purposes and pursuant to State and Federal law.

Training: Only assigned SWAT long rifle operators who have completed the required training shall be permitted to operate the rifle with this ammunition. Use is established by the SWAT Commander and/or Incident Commander.

Type: *Duty: Winchester Ranger, 9mm Luger 115 grain Hollow Point*

Range: Winchester Target, 9mm Luger 115 grain Full Metal Jacket

Quantity: Duty: Not to Exceed 30,000
Range: Not to Exceed 30,000

Cost: Duty: \$0.32 per round, \$324.000 per 1,000 rounds (estimated)
Range: \$0.22 per round, \$223.00 per 1,000 rounds (estimated)

Lifespan: 5 years from date of manufacture

Capabilities: This ammunition enables SWAT operators the ability to stop an armed subject at various distances.

Manufacturer's Description:

Duty: Threat stopping performance. It's what makes Ranger T-Series the trusted duty load law enforcement agencies across America. The bullet's patented, segment engineered design enhances expansion, penetration and weight retention through a variety of intervening barriers.

Range: Backed by generations of legendary excellence, Winchester "USA White Box" stands for consistent performance and outstanding value, offering high-quality ammunition to suit a wide range of shooter's needs.

Purpose: To be used with the MP-5.

Authorized Uses: The Winchester Ranger and Winchester Target Ammunition are authorized when used with the MP-5.

Fiscal Impact: Duty: \$0 – 9,720.00 (estimated)
Range: \$0 – 6,690.00 (estimated)

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Policy and Procedure: It is the policy of the Gardena Police Department to utilize this equipment only for official law enforcement purposes and pursuant to State and Federal law.

Training: Only assigned SWAT operators who have completed the required training shall be permitted to operate the MP-5. Use is established by the SWAT Commander and/or Incident Commander.

FIREARMS:

Type: *AR 15/M4 Carbine/HK416*

Quantity: Not to Exceed 100

Cost: \$865.26 (estimated)

Lifespan: No expiration

Capabilities: The AR 15/Carbine Rifle/HK 416 is a firearm capable of accurately stopping an armed subject at various distances.

Manufacturer's Description: A lightweight, air-cooled, gas-operated, magazine-fed shoulder-fired weapon designed for semi-automatic fire (or select fire for HK416).

Purpose: To be used as a precision weapon to address a threat with more precision and/or greater distances than a handgun, if present and feasible.

Authorized Uses: Only members that are POST certified are authorized to use a rifle. Members may deploy the patrol rifle in any circumstance where the member can articulate a reasonable expectation that the rifle may be needed. Examples of some general guidelines for deploying the patrol rifle may include, but are not limited to:

- a. Situations where the member reasonably anticipates an armed encounter.
- b. When a member is faced with a situation that may require accurate and effective fire at long range.
- c. Situations where a member reasonably expects the need to meet or exceed a suspect's firepower.
- d. When a member reasonably believes that there may be a need to fire on a barricaded person or a person with a hostage.
- e. When a member reasonably believes that a suspect may be wearing body armor.
- f. When authorized or requested by a supervisor.
- g. When needed to euthanize an animal.

HK 416's are only authorized for SWAT use in tactical situations.

Fiscal Impact: \$0 – 1,000.00 each (estimated for maintenance)

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Policy and Procedure: Lexipol Policy 306.33 Patrol Rifles

Training: All sworn personnel are trained by POST-certified firearms instructors for the use of M4s and AR 15s. SWAT operators receive additional training from POST-certified firearms instructors in the operation of the HK 416.

Type: *Remington 870 Magnum 12 Gauge Shot Lock (Repurposed Remington 870 Magnum modified with a breaching barrel)*

Quantity: Not to Exceed 3

Cost: \$0

Lifespan: 25 years (estimated)

Capabilities: This tool allows for officers to safely utilize shotgun breaching rounds to destroy deadbolts, locks, and hinges. The stand-off that is attached to the end of the barrel allows for positive placement of the device into the correct position and vents gasses to prevent overpressure. This device can also defeat windows and sliding glass doors with a flash bang round.

Manufacturer's Description: The Remington 870 family of shotguns was first introduced by Remington in the 1950s and since, has become one of the most popular USA-made pump action shotguns ever. Sales of the 870 reached over 7 million guns by 1996 and have continued to grow. This particular model is configured with a pistol grip and door-breaching accessory threaded into the barrel making it ideal for forceful entry situations.

Purpose: During crisis situations, it may become necessary for a SWAT team to facilitate an entry into a target location. It is critical the point of entry is breached as quickly and as safely as possible. A quick and effective breach may be required to provide an added degree of safety and tactical advantage in order to accomplish a mission.

Authorized Uses: A shot gun breach should only be utilized after taking into consideration the overall mission, officer and citizen safety, the overall construction of the structure, the presence of unstable chemicals, explosives or incendiary materials, and whether other means of mechanical breaching would be effective and safe to use. The option to use a shot gun breach shall be at the discretion of the SWAT Team Leader or the Incident Commander.

Fiscal Impact: \$0 – 150.00 (estimated for maintenance)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize this equipment only for official law enforcement purposes and pursuant to State and Federal law.

Training: Only assigned operators who have completed the required POST training shall be permitted to deploy the Remington 870 Magnum 12 Gauge Shot Lock.

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Type: *Remington 870 – Less-Lethal Shotgun (Repurposed Remington Shotguns from Patrol)*

Quantity: Not to Exceed 4

Cost: \$946.00 (estimated)

Lifespan: 25 years (estimated)

Capabilities: This less lethal shotgun is specifically designated for use with kinetic energy projectiles and is specially marked in a manner that makes them readily identifiable as such. It can deploy at a distance up to 75 feet. They are 12-gauge with a 6+1 magazine capacity.

Manufacturer's Description: As one of the most popular shotguns of all time, the Model 870 is offered in dozens of configurations to suit hundreds of applications. It is the heart of the Model 870's landmark dependability and durability.

Purpose: To limit the escalation of conflict where the employment of lethal force is prohibited or undesirable.

Authorized Use: Situations for use of the less lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; civil unrest incidents; potentially vicious animals; and training exercises or approved demonstrations.

Fiscal Impact: \$0 – 200.00 (estimated for maintenance)

Policy and Procedure: Lexipol Policy 306

Training: Only sworn personnel who have completed the required POST training shall be permitted to deploy the Remington 870.

Type: *MP-5 Select Fire Firearm*

Quantity: Not to Exceed 20

Cost: \$3,128.29 each (estimated)

Lifespan: No expiration

Capabilities: A compact, modular, lightweight, select fire firearm chambered in 9mm. The MP-5 is one of the most widely used firearm by SWAT teams in North America. The firearm provides the ability to deliver precision gun fire with a shoulder fired weapons system that is accurate, reliable, and safe. Its compact design allows for ease of maneuverability when operating in the open or within interior environments.

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Manufacturer's Description: Probably the most popular series of select fire guns in the world, it functions according to the proven roller-delayed blowback principle. Tremendously reliable, with maximum safety for the user, easy to handle, modular, extremely accurate and extraordinarily easy to control when firing – features that are particularly appreciated by security forces and military users worldwide.

Purpose: To be used as a precision weapon to address a threat with more precision and/or greater distances than a handgun, if present and feasible.

Authorized Uses: A sworn police officer who is member of the SWAT team may utilize an MP-5. Members may deploy the MP-5 in any circumstance where the member can articulate a reasonable expectation that the MP-5 may be needed. Examples of some general guidelines for deploying the MP-5 may include, but are not limited to:

- a. Situations where the member reasonably anticipates an armed encounter.
- b. When a member is faced with a situation that may require accurate and effective fire at long range.
- c. Situations where a member reasonably expects the need to meet or exceed a suspect's firepower.
- d. When a member reasonably believes that there may be a need to fire on a barricaded person or a person with a hostage.
- e. When a member reasonably believes that a suspect may be wearing body armor.
- f. When authorized or requested by a supervisor.
- g. When needed to euthanize an animal.

Fiscal Impact: \$0 – 500.00 (estimated for maintenance)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize this equipment only for official law enforcement purposes and pursuant to State and Federal law.

Training: Only assigned SWAT operators who have completed the required training shall be permitted to operate the MP-5. Use is established by the SWAT Commander and/or Incident Commander.

Type: *Remington 700 Precision .308 Bolt Action Rifle*

Quantity: Not to Exceed 4

Cost: \$2,000 (estimated)

Lifespan: No expiration

Capabilities: The bolt action sniper rifle provides SWAT long rifleman the ability to engage a suspect at up to 600 yards with precision accuracy.

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Manufacturer's Description: It's the number one bolt-action of all time, proudly made in the U.S.A. For over 50 years, more Model 700s have been sold than any other bolt-action rifle before or since. The legendary strength of its 3-rings-of-steel receiver paired with a hammer-forged barrel, combine to yield the most popular bolt-action rifle in history. Top choice of elite military snipers, the Model 700 is unequalled in tactical precision. Whether defending freedom or pursuing big game, its out-of-the-box accuracy is unmatched.

Purpose: To be used as a precision weapon to address a threat with more precision and/or greater distances than a handgun, if present and feasible.

Authorized Uses: SWAT operators who have been trained as a long rifleman/observer may use the Remington 700 during SWAT team operations. Examples of some general guidelines for deploying the Remington 700 may include, but are not limited to:

- a. Situations where the member reasonably anticipates an armed encounter.
- b. When a member is faced with a situation that may require accurate and effective fire at long range.
- c. Situations where a member reasonably expects the need to meet or exceed a suspect's firepower.
- d. When a member reasonably believes that there may be a need to fire on a barricaded person or a person with a hostage.
- e. When a member reasonably believes that a suspect may be wearing body armor.
- f. When authorized or requested by a supervisor.
- g. When needed to euthanize an animal.

Fiscal Impact: \$0 – 5,200.00 (estimated)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize this equipment only for official law enforcement purposes pursuant to State and Federal law.

Training: Only assigned SWAT long rifle operators who have completed the required training shall be permitted to operate the rifle. Use is established by the SWAT Commander and/or Incident Commander.

Type: *Remington R10 .308 Caliber Select Fire Rifle*

Quantity: Not to Exceed 4

Cost: \$2,836.00 each (estimated)

Lifespan: No expiration

Capabilities: This is a semi-automatic precision rifle with precision optics and provides SWAT long rifleman the ability to engage a suspect at up to 800 meters with precision accuracy.

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Manufacturer's Description: The R10's hammer-forged, sniper-grade barrel features 5R rifling for added precision and an effective range out to 800 m. All R10s have fully ambidextrous controls and free floated modular Remington Arms Handguards.

Purpose: The rifle provides SWAT long rifle operators and team spotters the ability to rapidly deploy and provide overwatch for team movements.

Authorized Uses: SWAT operators who have been trained as a long rifleman/observer may use the Remington R10 during SWAT team operations. Examples of some general guidelines for deploying the Remington R10 may include, but are not limited to:

- a. Situations where the member reasonably anticipates an armed encounter.
- b. When a member is faced with a situation that may require accurate and effective fire at long range.
- c. Situations where a member reasonably expects the need to meet or exceed a suspect's firepower.
- d. When a member reasonably believes that there may be a need to fire on a barricaded person or a person with a hostage.
- e. When a member reasonably believes that a suspect may be wearing body armor.
- f. When authorized or requested by a supervisor.
- g. When needed to euthanize an animal.

Fiscal Impact: \$0 – 2,000.00 (estimated for maintenance)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize this equipment only for official law enforcement purposes and pursuant to State and Federal law.

Training: Only assigned SWAT long rifle operators who have completed the required training shall be permitted to operate the rifle. Use is established by the SWAT Commander and/or Incident Commander.

HAND THROWN GAS

Type: *Flameless Oleoresin Capsicum (OC) Expulsion (Part # 2040)*

Quantity: Not to Exceed 30

Cost: \$36.00 each (estimated)

Lifespan: 5 years from date of manufacture

Capabilities: This canister's contents are expelled upon actuation of a CO2 cartridge that will affect a confined area consisting of approximately 1,500 square feet. The Flameless Expulsion Canister has a 1.5 second delay, followed by sub-munitions that mechanically activate a CO2 cartridge. The released CO2 pressure expels the powder through one or

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two (or both) ports on the side of the canister within seconds.

Manufacturer's Description: The Flameless Expulsion canister is designed for indoor use. This canister's contents are expelled upon actuation of a CO2 cartridge that will affect a confined area consisting of approximately 1,500 square feet. The Flameless Expulsion Canister has a 1.5 second delay, followed by sub-munitions that mechanically activate a CO2 cartridge. The released CO2 pressure expels the powder through one or two (or both) ports on the side of the canister within seconds. The Flameless Expulsion canister is extremely safe for indoor use. The extremely light powder from the agent will remain airborne for extended periods depending on the draft conditions. The Expulsion canister cannot be launched.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable. Situations for the use of the less-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Authorized Uses: Only officers who have received POST certification in the use of chemical agents are authorized to use chemical agents.

Fiscal Impact: \$0 – 1,080.00 (estimated)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize chemical agents only for official law enforcement purposes and pursuant to State and Federal law, including those regarding the use of force.

Training: SWAT operators and members of the Mobile Field Force Team utilizing chemical agent canisters are certified by POST less-lethal and chemical agent instructors.

Type: *Multi-Use CS Smoke (Part #1082)*

Quantity: Not to Exceed 50

Cost: \$26.33 each (estimated)

Lifespan: 5 years from date of manufacture

Capabilities: A high volume continuous burn canister that expels its payload in approximately 20 - 40 seconds.

Manufacturer's Description: Designed specifically for outdoor use in crowd control situations, the canister is a high volume continuous burn canister that expels its payload in approximately 20 - 40 seconds. It has slightly less chemical content than the Spede-Heat™ version, but differs mainly in size. The longer burn time may allow for throwback by individuals wearing burn protection such as a welder's mitt. The canisters may be

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protected from advancing individuals with the use of less lethal impact munitions. The device should be deployed utilizing wind advantage.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable. Situations for the use of the less-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Authorized Uses: Only officers who have received POST certification in the use of chemical agents are authorized to use chemical agents.

Fiscal Impact: \$0 – 1,316.50 (estimated)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize chemical agents only for official law enforcement purposes and pursuant to State and Federal law, including those regarding the use of force.

Training: SWAT operators and members of the Mobile Field Force Team utilizing chemical agent canisters are certified by POST less-lethal and chemical agent instructors.

Type: *Stinger CS Rubber Balls (Part # 1088)*

Quantity: Not to Exceed 100

Cost: \$45.00 each (estimated)

Lifespan: 5 years from date of manufacture

Capabilities: The Stinger® CS Rubber Ball is a maximum effect device that delivers four stimuli for psychological and physiological effects: rubber pellets, light, sound, and CS. It has an initial 1.5 second delay that initiates fuze assembly separation, followed by another .5 second delay before the blast which is sufficient to project the rubber balls and chemical agent in a 50-foot radius.

Manufacturer's Description: The Stinger® canister is a combination Less Lethal Impact Munitions and Distraction Device® that may incorporate optional CS or OC laden powder, if desired. The Stinger® canister is a maximum effect device as it delivers up to four stimuli for psychological and physiological effect: rubber pellets, light, sound, and optional chemical agent or Oleoresin Capsicum (OC). The Stinger® canister has an initial 1.5 second delay that initiates fuze assembly separation, followed by another 0.5 second delay before the function of the device. The blast is sufficient to project the rubber balls and optional chemical agent in a 50-foot radius.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable. Situations for the use of the less-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; civil unrest

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incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Authorized Uses: SWAT operators and members of the Mobile Field Force Team who have received POST certification in the use of chemical agents are authorized to use chemical agents.

Fiscal Impact: \$0 – 4,500.00 (estimated)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize this equipment only for official law enforcement purposes and pursuant to State and Federal law.

Training: SWAT operators and members of the Mobile Field Force Team utilizing chemical agent canisters are certified by POST less-lethal and chemical agent instructors.

Type: *Triple Chaser Smoke (Part #1027)*

Quantity: Not to Exceed 25

Cost: \$35.50 each (estimated)

Lifespan: 5 years from date of manufacture

Capabilities: When deployed, the canisters separate and land approximately 20 feet apart allowing increased area coverage in a short period of time. This apparatus can be hand thrown or launched from a fired delivery system and is an effective way to quickly deploy a wide blanket of agent.

Manufacturer's Description: The Triple-Chaser® is a fast burning, medium volume canister. It is a pyrotechnic canister consisting of three (3) separate canisters pressed together with separating charges between each section. When deployed, this apparatus will separate into three (3) distinct sub-munitions spaced approximately 20 feet apart – allowing increased area coverage in a short period of time, from one deployment. Terrain and surface conditions can affect the distance of the separating sub-munitions.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable. Situations for the use of the less-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Authorized Uses: Only SWAT operators and members of the Mobile Field Force Team who have received POST certification in the use of chemical agents are authorized to use chemical agents.

Fiscal Impact: \$0 – 887.50 (estimated)

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Policy and Procedure: It is the policy of the Gardena Department to utilize this equipment only for official law enforcement purposes and pursuant to State and Federal law.

Training: SWAT operators and members of the Mobile Field Force Team utilizing chemical agent canisters are certified by POST less-lethal and chemical agent instructors.

Type: *Triple Chaser CS (Part #1027)*

Quantity: Not to Exceed 25

Cost: \$47.00 each (estimated)

Lifespan: 5 years from date of manufacture

Capabilities: When deployed, the canisters separate and land approximately 20 feet apart allowing increased area coverage in a short period of time. This apparatus can be hand thrown or launched from a fired delivery system and is an effective way to quickly deploy a wide blanket of agent.

Manufacturer's Description: The Triple-Chaser® is a fast burning, medium volume canister. It is a pyrotechnic canister consisting of three (3) separate canisters pressed together with separating charges between each section. When deployed, this apparatus will separate into three (3) distinct sub-munitions spaced approximately 20 feet apart – allowing increased area coverage in a short period of time, from one deployment. Terrain and surface conditions can affect the distance of the separating sub-munitions.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable. Situations for the use of the less-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Authorized Uses: Only SWAT operators and members of the Mobile Field Force Team who have received POST certification in the use of chemical agents are authorized to use chemical agents.

Fiscal Impact: \$0 – 1,175.00 (estimated)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize chemical agents only for official law enforcement purposes and pursuant to State and Federal law, including those regarding the use of force.

Training: SWAT operators and members of the Mobile Field Force Team utilizing chemical agent canisters are certified by POST less-lethal and chemical agent instructors.

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Type: *Pocket Tactical CS (Part #1016)*

Quantity: Not to Exceed 100

Cost: \$25.19 each (estimated)

Lifespan: 5 years from date of manufacture

Capabilities: The Pocket Tactical is a small lightweight easily carried device that provides a medium volume of chemical agent or smoke for certain situations.

Manufacturer's Description: The Pocket Tactical is a quick burning, reduced volume, continuous discharge canister available in Oleoresin Capsicum (OC), CN, CS, and Saf-Smoke. Pelletized chemical agent or smoke is discharged through one (1) gas port located on the bottom of the canister. The Pocket Tactical is a small, lightweight, easily carried device that provides a medium volume of chemical agent or smoke for certain situations. It was designed with the tactical team in mind for distraction, concealment, rescue, or signaling. The pocket canister is not specifically intended as a crowd management device; however, it can be used in chemical configurations in conjunction with larger smoke canisters to "piggy back" chemical agents into a predominately smoke environment. This device should be deployed utilizing wind advantage. It should NOT be deployed onto rooftops, in crawl spaces, or indoors due to its fire-producing capability. Hand throw or launch.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable. Situations for the use of the less-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Authorized Uses: Only SWAT operators and members of the Mobile Field Force Team who have received POST certification in the use of chemical agents are authorized to use chemical agents.

Fiscal Impact: \$0 – 2,519.00 (estimated)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize chemical agents only for official law enforcement purposes and pursuant to State and Federal law, including those regarding the use of force.

Training: SWAT operators and members of the Mobile Field Force Team utilizing chemical agent canisters are certified by POST less-lethal and chemical agent instructors.

Type: *Flameless Tri-Chamber CS (Part #1032)*

Quantity: Not to Exceed 20

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Cost: \$36.63 each (estimated)

Lifespan: 5 years from date of manufacture

Capabilities: The design of the Tri-Chamber Flameless CS canister allows the contents to burn within an internal can and disperse the agent safely with reduced risk of fire. It is designed primarily for indoor tactical situations to detect and/or dislodge a barricaded subject. It can be used in crowd control as well as tactical deployment situations by Law Enforcement and Corrections but was designed with the barricade situation in mind. Its applications in tactical situations are primarily to detect and/or dislodge barricaded subjects.

Manufacturer's Description: The Tri-Chamber Flameless canister is designed for indoor use. This canister's pyrotechnic contents are burned within an internal can that is one of three in this design. The internal combustion allows the chemical-laden smoke to be released through three (3) ports on the outer canister side while safely containing any of the fire-producing properties within the two internal canisters. The fuze is shrouded to further protect surrounding materials from the possibility of fire. The Tri-Chamber Flameless canister can be used in crowd control as well as tactical deployment situations by Law Enforcement and Corrections, but was designed with the barricade situation in mind. Its applications in tactical situations are primarily to detect and/or dislodge barricaded subjects.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable. Situations for the use of the less-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Authorized Uses: Only SWAT operators and members of the Mobile Field Force Team who have received POST certification in the use of chemical agents are authorized to use chemical agents.

Fiscal Impact: \$0 – 732.60 (estimated)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize chemical agents only for official law enforcement purposes and pursuant to State and Federal law, including those regarding the use of force.

Training: SWAT operators and members of the Mobile Field Force Team utilizing chemical agent canisters are certified by POST less-lethal and chemical agent instructors.

Type: *Flameless Tri-Chamber Smoke (Part #1033)*

Quantity: Not to Exceed 20

Cost: \$29.50 each (estimated)

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Lifespan: 5 years from date of manufacture

Capabilities: The Tri-Chamber Flameless canister can be used in crowd control as well as tactical deployment situations. Its applications in tactical situations are primarily to detect and/or dislodge barricaded subjects.

Manufacturer's Description: The Tri-Chamber Flameless canister is designed for indoor use. This canister's pyrotechnic contents are burned within an internal can that is one of three in this design. The internal combustion allows the chemical-laden smoke to be released through three (3) ports on the outer canister side while safely containing any of the fire-producing properties within the two internal canisters. The fuze is shrouded to further protect surrounding materials from the possibility of fire.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable. Situations for the use of the less-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Authorized Uses: Only SWAT operators and members of the Mobile Field Force Team who have received POST certification in the use of chemical agents are authorized to use chemical agents.

Fiscal Impact: \$0 – 590.00 (estimated)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize chemical agents only for official law enforcement purposes and pursuant to State and Federal law, including those regarding the use of force.

Training: SWAT operators and members of the Mobile Field Force Team utilizing chemical agent canisters are certified by POST less-lethal and chemical agent instructors.

Type: *MK 46 Vertical 1st Defense (Part # 56746V)*

Quantity: Not to Exceed 10

Cost: \$335.00 each (estimated)

Lifespan: 5 years from date of manufacture

Capabilities: This will deliver 26 short bursts of Oleoresin Capsicum (OC) at an effective range of 25-30 ft.

Manufacturer's Description: The MK-46 features a trigger handle, is intended for use in crowd management and will deliver 26 short bursts of Oleoresin Capsicum (OC) at an effective range of 25-30 ft. This .7% MC OC aerosol product utilizes a stream delivery

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method providing a target-specific, strong concentrated stream for greater standoff. Non-flammable / Electronic Discharge Weapon (EDW) safe.

Purpose: To limit the escalation of conflict where employment of lethal force is prohibited or undesirable. Situations for the use of the less-lethal weapon systems may include, but are not limited to self-destructive, dangerous, and/or combative individuals; civil unrest incidents; circumstances where a tactical advantage can be obtained; potentially vicious animals; and training exercises or approved demonstrations.

Authorized Uses: Only SWAT operators and members of the Mobile Field Force Team who have received POST certification in the use of chemical agents are authorized to use chemical agents.

Fiscal Impact: \$0 – 3,350.00 (estimated)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize chemical agents only for official law enforcement purposes and pursuant to State and Federal law, including those regarding the use of force.

Training: SWAT operators and members of the Mobile Field Force Team utilizing chemical agent canisters are certified by POST less-lethal and chemical agent instructors.

DIVERSIONARY DEVICES

Type: *Low Roll Distraction Device (Part #8922 – HH)*

Quantity: Not to Exceed 50

Cost: \$46.00 each (estimated)

Lifespan: 5 years from date of manufacture

Capabilities: Diversionary Devices are capable of releasing large amounts of stored energy in the form of heat, light, pressure, and noise. They are intended to temporarily distract, confuse, and disorient subjects. They can also be used as “attention-getting” devices.

Manufacturer’s Description: The 11-Gram Low Roll II® Non-Reloadable Distraction Device®, High Humidity utilizes an M201A1 type fuze with Hex design steel body. This compact version of the 8933 Low Roll Distraction Device body is the newest version of the first reusable non-bursting canisters that limits movement and rolling once deployed.

Purpose: A distraction device is ideal for distracting dangerous suspects during assaults, hostage rescue, room entry, or other high-risk arrest situations. It produces atmospheric overpressure and brilliant white light, and as a result, can cause short-term (6-8 seconds) physiological/psychological, sensory deprivation to give officers a tactical advantage.

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Authorized Uses: Diversionary Devices shall only be used by SWAT operators who have been trained in their proper use; in hostage and barricaded suspect situations; in high-risk warrant (search/arrest) services where there may be extreme hazards to officers; during other high-risk situations where their use would enhance officer safety; and during training exercises.

Fiscal Impact: \$0 – 2,300.00 (estimated)

Policy and Procedure: It is the policy of the Gardena Police Department to utilize this equipment only for official law enforcement purposes and pursuant to State and Federal law, including those regarding the use of force.

Training: Prior to use, SWAT operators must attend diversionary device training that is conducted by POST-certified instructors.

706.5 APPROVAL

State

The Chief of Police or the authorized designee shall obtain approval from the governing body by way of an ordinance adopting the military equipment policy. As part of the approval process, the Chief of Police or the authorized designee shall ensure the proposed military equipment policy is submitted to the governing body and is available on the department website at least 30 days prior to any public hearing concerning the military equipment at issue (Government Code § 7071). The military equipment policy must be approved by the governing body prior to engaging in any of the following (Government Code § 7071):

- (a) Requesting military equipment made available pursuant to 10 USC § 2576a.
- (b) Seeking funds for military equipment, including but not limited to applying for a grant, soliciting or accepting private, local, state, or federal funds, in-kind donations, or other donations or transfers.
- (c) Acquiring military equipment either permanently or temporarily, including by borrowing or leasing.
- (d) Collaborating with another law enforcement agency in the deployment or other use of military equipment within the jurisdiction of this department.
- (e) Using any new or existing military equipment for a purpose, in a manner, or by a person not previously approved by the governing body.
- (f) Soliciting or responding to a proposal for, or entering into an agreement with, any other person or entity to seek funds for, apply to receive, acquire, use, or collaborate in the use of military equipment.
- (g) Acquiring military equipment through any means not provided above.

706.6 COORDINATION WITH OTHER JURISDICTIONS

State

Military equipment used by any member of this Department shall be approved for use and in accordance with this Department policy. Any military equipment that is deployed or used by

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other jurisdictions that are providing mutual aid to this Department shall comply with their respective military equipment use policies. Situations may arise where the Gardena Police Department may deploy or use military equipment owned by other law enforcement agencies, in these situations, Gardena Police Department is authorized to deploy or use a different agency's military equipment as authorized in this policy.

The Gardena Police Department hereby adopts the military equipment use policy as is approved, and may be amended from time to time, under Government Code section 7070 *et seq.*, for jurisdictions that the Gardena Police Department may engage with to provide mutual aid. This section is in no way a limitation to the ability of the Gardena Police Department to deploy or use the military equipment of another jurisdiction.

706.7 ANNUAL REPORT

State

Upon approval of a military equipment policy, the Chief of Police or the authorized designee should submit a military equipment report to the governing body for each type of military equipment approved within one year of approval, and annually thereafter for as long as the military equipment is available for use (Government Code § 7072).

The Chief of Police or the authorized designee should also make each annual military equipment report publicly available on the department website for as long as the military equipment is available for use. The report shall include all information required by Government Code § 7072 for the preceding calendar year for each type of military equipment in department inventory.

706.8 COMMUNITY ENGAGEMENT

State

Within 30 days of submitting and publicly releasing the annual report, the Department shall hold at least one well-publicized and conveniently located community engagement meeting, at which the Department should discuss the report and respond to public questions regarding the funding, acquisition, or use of military equipment.

706.9 COMPLIANCE PROCEDURE

This procedure is to ensure compliance with the military equipment use policy. All complaints, concerns, or questions submitted regarding this policy will be handled pursuant to the Department's normal complaint process (Lexipol Policy 1010) and be handled in a timely manner.



City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 8.J
Section: CONSENT CALENDAR
Meeting Date: May 24, 2022

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: Approve the GTrans Zero-Emission Fleet Transition Plan

CONTACT: TRANSPORTATION

COUNCIL ACTION REQUIRED:

RECOMMENDATION AND STAFF SUMMARY:

In 2017, City Council adopted GTrans' FY2017-2023 Fleet Replacement Plan, in order to guide the timely replacement of aging buses. The plan dictated that GTrans would immediately pursue a combination of both CNG and zero emission buses for the near-term replacement of its fleet, with an eventual conversion of the entire fleet to zero emission by 2034.

In December 2018, the California Air Resources Board (CARB) adopted the Innovative Clean Transit (ICT) Regulation mandating that all public transit agencies gradually transition to a 100% zero-emission bus fleet by 2040. The intention of the regulation is to help California meet its long-term air quality and climate mitigation goals as zero-emission buses have higher fuel efficiencies compared to internal combustion engine technologies. The ICT Regulation also requires all agencies to create a zero-emission bus rollout plan, which for smaller agencies like GTrans, will be due to CARB by July 1, 2023.

The federal Bipartisan Infrastructure Law signed in 2021 amended the statutory provisions for the Grants for Buses and Bus Facilities Competitive Program (49 U.S.C. § 5339(b)) and the Low or No Emission Program (49 U.S.C. § 5339(c)) to include a requirement that any application for projects related to zero-emission vehicles include a Zero-Emission Transition Plan.

In order to comply with California's ICT regulation and be eligible for federal grant opportunities, GTrans has steadily been working on its plan to transition its fleet, in accordance with both local, state and federal guidelines. The GTrans Zero-Emission Fleet Transition Plan documents its plans in accordance with specific guidance as provided by both state and federal requirements. Once approved, GTrans will be eligible to apply for federal grants, and will have met the state's requirement to provide a plan. The Plan is a living document that discusses how GTrans intends to achieve a full transition to zero-emission vehicles by 2034. It is anticipated that the Plan will be updated as needed over the course of

the transition, and as technology changes and matures.

Therefore it is recommended that Council approve the GTrans Zero-Emission Fleet Transition Plan.

FINANCIAL IMPACT/COST:

Therefore there is no financial impact to GTrans, as the Plan does not obligate specific funding. Any purchases or contracts made in the furtherance of achieving the goals of the Plan will come before City Council for consideration prior to obligation. There is no impact to the General Fund.

ATTACHMENTS:

[GTrans Zero-Emission Fleet Transition Plan FINAL 5_2022.pdf](#)

APPROVED:

A handwritten signature in blue ink, appearing to read "Clint Osorio".

Clint Osorio, City Manager

Zero-Emission Fleet Transition Plan



City of Gardena's GTrans

April 2022



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Executive Summary

The City of Gardena and its Department of Transportation (GTrans) operate under federal, state and local regulatory directives that guide the composition of its fleet and thus its supporting infrastructure to have a positive impact on climate change and a reduction of greenhouse gas emissions. In 2017, the Gardena City Council directed a fleet replacement plan that included a dual investment in zero and near-zero technologies, requiring a fleet composition of 80 percent Compressed Natural Gas (CNG) buses and 20 percent zero-emission battery electric buses. This directive furthered the City's already early investment into zero-emission buses, with the deployment of six buses starting in 2015.

Then in December 2018, the California Air Resources Board (CARB) adopted the Innovative Clean Transit (ICT) Regulation that mandated all public transit agencies to transition to a 100% zero-emission bus fleet by 2040. As a state that is often ahead of the curve on environmental initiatives, California transit agencies, like GTrans are well-positioned to meet these goals, provided adequate funding a technical support are provided.

Finally, with the signing of the 2021 Infrastructure Investment and Jobs Act, commonly known as the Bipartisan Infrastructure Law, new federal legislation includes \$39 billion of new investment to modernize transit and expand public transit options across every state in the country, replace thousands of deficient transit vehicles, including buses, with clean, zero emission vehicles, and improve accessibility for the elderly and people with disabilities.

In response to these directives, GTrans has developed a long-term plan to transition its fleet to 100 percent zero-emission battery electric buses. This document is intended to be a living document and will be updated as needed over the course of the transition, and as technology changes and matures.

Section A: Transit Agency Information

Transit Agency Name	City of Gardena GTrans
Mailing Address	13999 S. Western Avenue Gardena, CA 90249-3005
Air District	South Coast Air Quality Management District
Air Basin	South Coast Air Basin
Total Number of Buses in Annual Maximum Service	52
Population of Urbanized Area Served by Transit Agency (Census 2020)	463,968
Contact Information	Ernie Crespo Director of Transportation City of Gardena GTrans (310) 965-8801 ecrespo@gardenabus.com
Member of a Joint Group	No

Section B: Rollout Plan General Information

1. Does your transit agency's Rollout Plan have a goal of full transition to zero-emission technologies by 2040 that avoids early retirement of conventional transit buses (13 CCR § 2023.1(d)(1)(A))?

Yes

2. The ICT regulation requires 100% ZEB purchase in 2029. Conventional transit buses that are purchased in 2028 could be delivered in or after 2029. Please explain how your transit agency plans to avoid potential early retirement of conventional buses in order to meet the 2040 goal.

80/20

3. When did your transit agency's board or governing body approve the Rollout Plan?

- a. Rollout Plan's approval date

05/24/2022

- b. Resolution number (optional)

N/A

- c. Is a copy of the board approved resolution attached to the Rollout Plan submitted to CARB (13 CCR § 2023.1(d)(2))?

No

4. Please provide contact information for CARB to follow up on details of the Rollout Plan, if needed.

- a. **Contact Name:** Dana Pynn
- b. **Title:** Transit Administrative Officer
- c. **Phone Number:** (310) 965-8811
- d. **Email:** dpynn@gardenabus.com

5. Who has created the Rollout Plan?

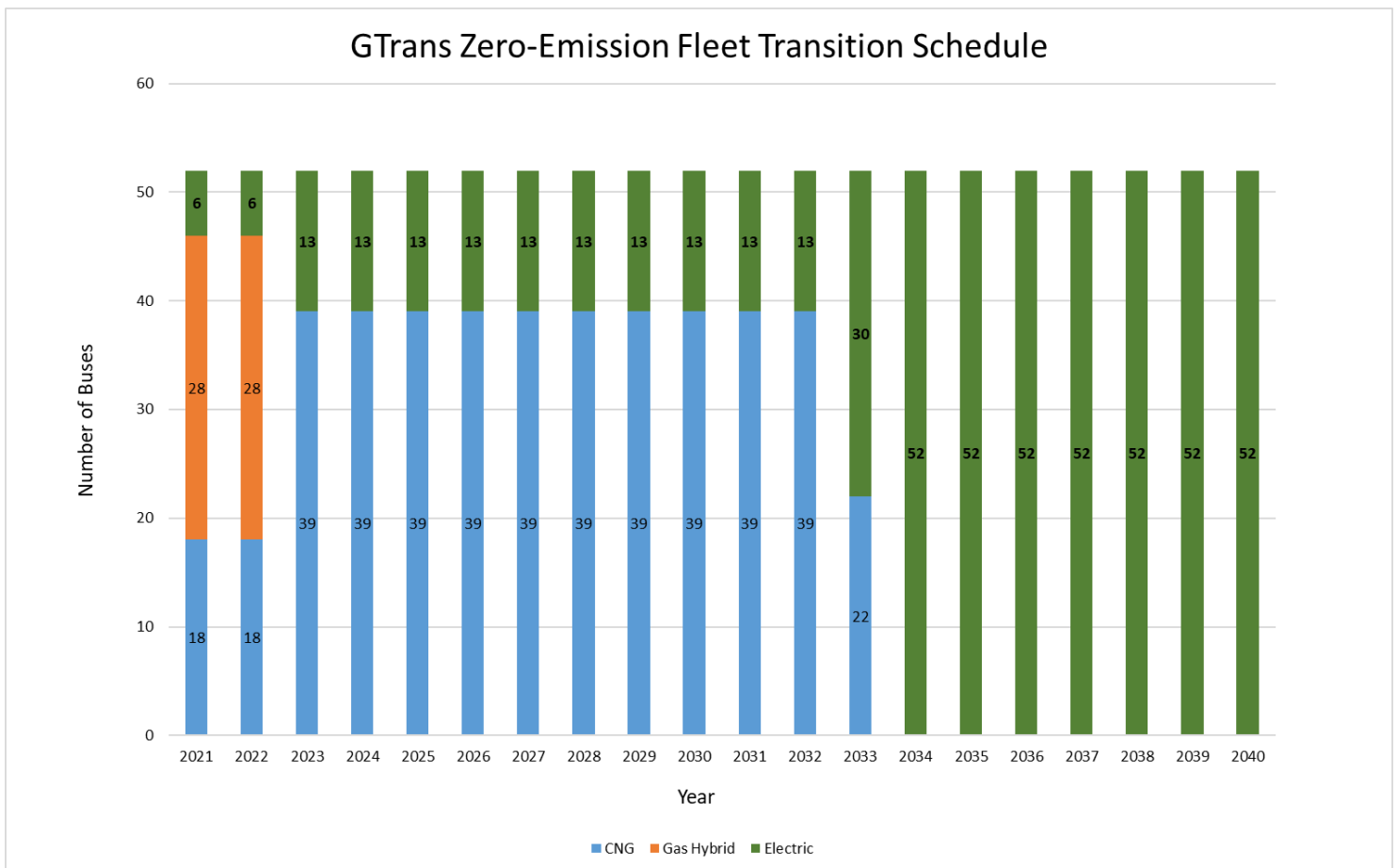
This plan was created in-house, with assistance from graduate students from UCLA Luskin School of Public Affairs

Section C: Technology Portfolio

What type(s) of zero-emission bus technologies does your transit agency plan to deploy through 2040? (13 CCR § 2023.1(d)(1)(B))

At the end of 2023, GTrans will have completed its fleet replacement of its active fleet with a mixture of 80 percent Compressed Natural Gas (CNG) transit buses and 20 percent zero-emission battery electric buses. As an early adopter of zero-emission battery electric propulsion systems, GTrans deployed one traditional electric bus and five repowered electric buses starting in 2015. By 2034, GTrans will complete its transition to zero-emission technology with the purchase of battery electric buses for its future bus replacements.

FIGURE 1: GTrans' Active Fleet Transition Schedule



Section D: Current Bus Fleet Composition and Future Bus Purchases

1. Please complete Table 1 with information on each individual bus in your current bus fleet.

Table 1 represents GTrans fleet at the end of FY2021. Listed are vehicles that routinely operate in service, as well as a supporting contingency fleet.

TABLE 1: Bus Information for GTrans Current Bus Fleet

Number of Buses	Bus Manufacturer / Model	Bus Type	Engine Model Year	Bus Model Year	Fuel Type
18	ElDorado National/Axcess	40-foot	2020	2020	Compressed Natural Gas (CNG)
15	New Flyer/GE40LF	40-foot	2005	2005	Gasoline/Hybrid
17	New Flyer/GE40LF	40-foot	2009	2009	Gasoline/Hybrid
18	New Flyer/GE40LF	40-foot	2009	2009	Gasoline/Hybrid
1	New Flyer/GE40LF/ZEPS	40-foot	-	2005	ZEPS / Electric
1	New Flyer/GE40LF/ZEPS	40-foot	-	2009	ZEPS / Electric
3	New Flyer/GE40LF/ZEPS	40-foot	-	2010	ZEPS / Electric
1	BYD/K9	40-foot	-	2015	Electric

2. Please complete Table 2 regarding expected future bus purchases, including the number of buses in total expected to be purchased or leased in the year of purchase. Identify the number and percentage of zero-emission buses of the total bus purchases each year, as well as bus types and fuel types. Identify the same type of information for purchases of conventional buses. Bus types include standard, articulated, over-the-road, double decker and cutaway buses. For zero-emission technologies, please identify the fuel type as hydrogen or electricity and the type of charging technology (depot, wireless, and/ or on-route). For conventional technologies, identify the fuel type as diesel, compressed natural

gas (CNG), liquefied natural gas (LNG), diesel hybrid (dHEB), gasoline hybrid (gHEB), propane, or gasoline. (13 CCR § 2023.1(d) (1) (D))

Table 2 illustrates a purchase forecast for GTrans to acquire ZEBs while maintaining reliable service. GTrans is in the fortunate position of being able to experience and become familiar with battery electric buses, while still having a long tested CNG technology to deliver reliable service. GTrans will benefit from improvements in the next 12 years that emerge in range and reliability. Years in which buses are not purchased are omitted from the table.

TABLE 2: GTrans' Projected ZEB Bus Procurement

Timeline (Year)	Total Number of Buses to Purchase	Number of ZEB Purchases	Percentage of Annual ZEB Purchases	ZEB Bus & Fuel Type	Charging	Number of Conventional Bus Purchases
2023	6	6	100%	40' Electric Bus	Depot	0
2033	17	17	100%	40' Electric Bus	Depot	0
2034	22	22	100%	40' Electric Bus	Depot	0

3. Following the same bus purchase timeline as identified in Table 2, please identify in Table 3 the required operational range your future zero-emission buses should have to be able to serve in your fleet. Please provide the estimated cost of each bus with that required operational range.

GTrans intends to purchase its zero-emission battery electric buses from existing and available cooperative purchasing agreements. Table 3a below represents the costs from its most recent purchase off the State of Washington Cooperative Agreement. The cost does not include required chargers and related equipment.

TABLE 3a: Estimated Costs of Future ZEB Purchases

Number of Buses	40' Zero-Emission Electric Buses
Average Bus Base Price from Washington State Contract:	\$837,500
Estimated Cost of Configurable Options:	\$150,000
Delivery:	\$6,500
Tax (10.25%):	\$101,219
Estimated Total Cost**:	\$1,095,219

**Steady state pricing is assumed for modeling purposes, although there is not enough information to make a confident projection in future pricing.

TABLE 3b: Range and Estimated Costs of Future ZEB Purchases

Timeline (Year)	Number of ZEB Purchases	ZEB Bus & Fuel Type	Range per Bus	Estimated Cost per Vehicle
2023	6	40' Electric Bus	250-280 miles	\$1,095,219
2033	17	40' Electric Bus	250-280 miles	\$1,095,219
2034	22	40' Electric Bus	250-280 miles	\$1,095,219

4. Is your transit agency considering converting some of the conventional buses in service to zero-emission buses (13 CCR § 2023.1(d) (1) (E))

No

Section E: Facilities and Infrastructure Modifications

1. Please complete Table 5 with names, locations, and main functions of transit agency divisions or facilities that would be involved in deploying and maintaining zero-emission buses. *Please limit the facilities to bus yards and facilities with maintenance, fueling, and charging functions, and exclude other operational functions like training centers, information and trip planning offices, and administrative buildings. Please identify which facility(ies) require construction, infrastructure modifications, or upgrades to support your transit agency's long-term transition to zero-emission technologies and the estimated timeline for such an upgrade. Please also specify the type(s) of infrastructure planned in each division or facility and provide their service capacities (e.g. on-route high-power charging system) to deploy 20 BEBs in 2025) (13 CCR § 2023.1(d)(1)(C)) (required)*

TABLE 5: Facilities Information and Construction Timeline

Division/ Function	Address	Type of Infrastructure	Service Capacity	Needs Upgrade	Estimated Construction Timeline
GTrans Operations, Administration and Maintenance Facility	13999 S. Western Avenue, Gardena, CA 90249	CNG Fueling Station, Electric Charging Station, Solar Panels and Battery Storage	114 Buses	Yes	2023-2024

2. Regarding the information provided in Table 5, please explain the types of necessary upgrades or infrastructure modifications each facility or division needs to support your transit agency's long-term transition to ZEB. Please also provide the specification of each infrastructure in the related facility or division before and after the upgrades or modifications.

Currently, GTrans has the infrastructure to support the fueling of its gasoline hybrid buses and charge its existing six battery electric buses. GTrans is in the middle of a project to construct a CNG fueling station along with maintenance bay upgrades to accommodate the maintenance and repair of CNG buses. As GTrans transitions away from gasoline and towards its CNG and ultimately electric bus fleet, several infrastructure upgrades will need to be completed. GTrans will construct a charging station in 2023, through Southern California Edison's ChargeReady Program. This will allow for the charging of up to 14

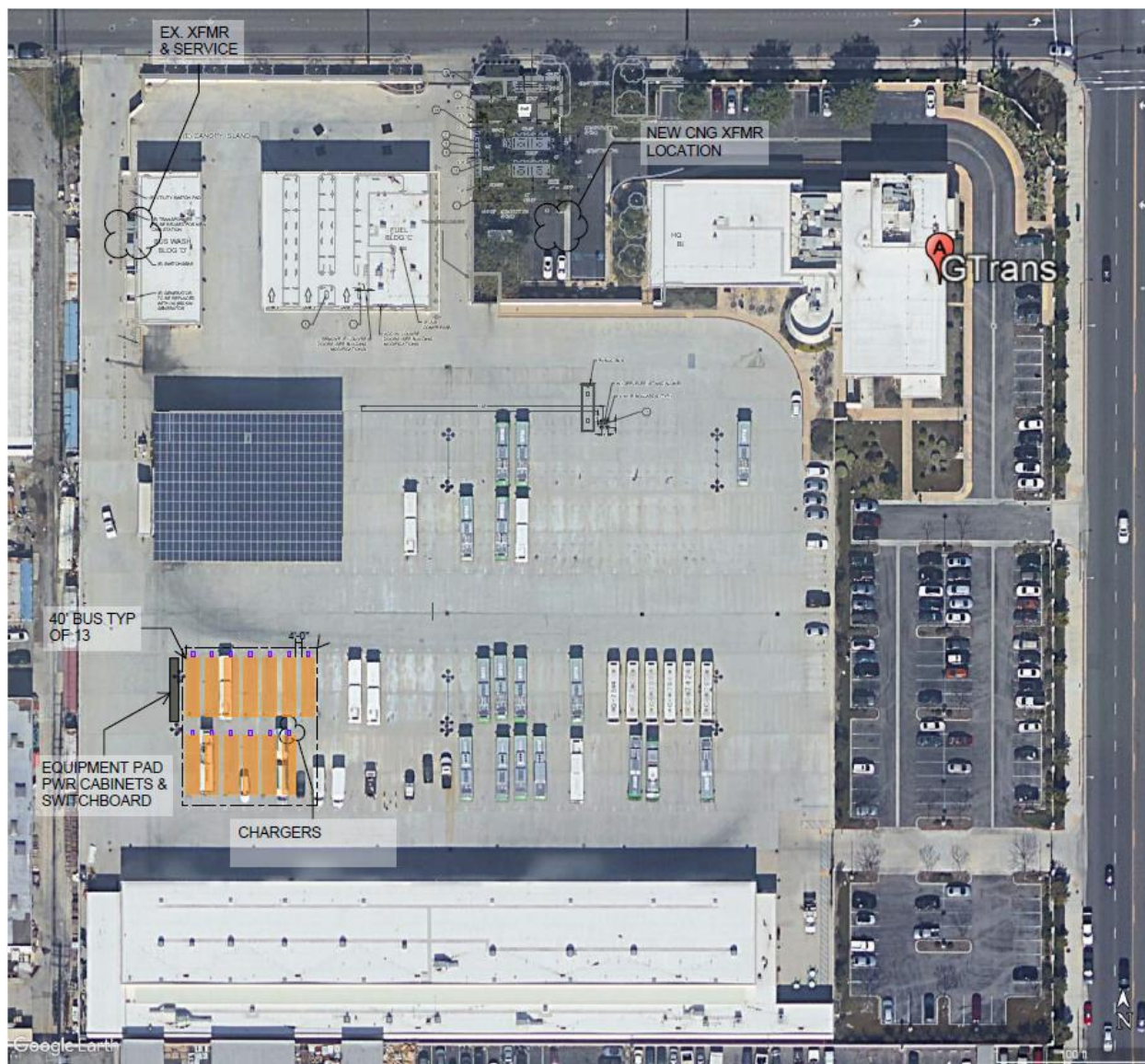
electric buses initially and lay the groundwork for the transition to add chargers as needed, and in accordance with the procurement schedule. In addition, GTrans is also planning to expand its deployment of solar panels throughout its facility, which includes installation of solar panels atop new parking covers, and existing buildings. This will be in conjunction with the addition of battery storage and the implementation of microgrid charging management software.

**3. Do you expect to make any modifications to your bus parking arrangements?
Explain the modifications and why they are needed.**

Yes, GTrans has plans to place the charging cabinets and infrastructure in the yard at the southwest corner, which was previously used for bus parking. Buses will now be parked elsewhere allowing for an updated traffic management and fueling plan. See Figure 1 below.



FIGURE 1: GTrans Preliminary Charging/Parking Plan



4. Do you expect to need additional parking spaces for completing the transition to zero-emission technologies? Explain why.

No. The GTrans yard was originally designed to accommodate 114 buses, allowing for significant expansion, which is not currently planned for the agency. The Yard size allows for sufficient parking.

5. In Table 6, please identify the propulsion system of all buses that will be dispatched from the facilities identified in Table 5.

TABLE 6: NOx-Exempt Area and Electric Utilities' Territories

Division/Facility Name	Type(s) of Bus Propulsion Systems	Located in NOx Exempt Area?	Name(s) of Electric Utility in Service Area
GTrans Operations, Administration and Maintenance Facility	CNG, Gasoline/Hybrid, Electric	No	Southern California Edison

Please identify the electric utilities in your transit agency's service area. Southern California Edison.

Southern California Edison (SCE). GTrans has had a productive relationship with SCE over the past several years. Beginning with the conversion of five conventional buses to electric propulsion systems, SCE and GTrans worked together to ensure a successful deployment. This partnership has grown since then as GTrans applied to the ChargeReady program, which offers program funded utility distribution infrastructure upgrades and rebates to offset the costs associated with purchasing and installing qualifying EV charging equipment. GTrans is now in the planning stages with SCE to deploy this program.

Section F: Providing Service in Disadvantaged Communities

1. Does your transit agency serve one or more disadvantaged communities, as listed in the latest version of CalEnviroScreen?

Yes

a. If yes, please describe how your transit agency is planning to deploy zero-emission buses in disadvantaged communities (13 CCR § 2023.1(d) (1) (F)).

Vehicle deployment refers to the process by which transit vehicles are placed into service on routes throughout the transit system to ensure that all communities receive the same benefits derived from the transit vehicles. The location of GTrans' routes rank in the 96-100 percentile of the CalEnviroScreen's and the 90-95th percentile on the EPA's EJ Mapping tool showing environmental justice population.

The deployment also supports the federal Justice40 Initiative by promoting clean energy and sustainable transportation to the federally designated Historically Disadvantaged Communities (DAC). Over 86 percent of the census tracts along routes within GTrans' service area have four or more Transportation Disadvantage Indicators, using the USDOT mapping tool. The deployment of zero emission electric buses contribute to a reduction of greenhouse gases and improved air quality throughout service area where vehicles are deployed, and thus positively impacting the 'pollution burden' for disproportionately harmed communities of color and low-income communities. Barring restrictions of certain vehicles fleets, vehicles are distributed across the routes equitably by age.

b. Please complete Table 7 with the estimated number of zero-emission buses your transit agency is planning to deploy in disadvantaged communities and the estimated timeline.

As the new zero-emission buses arrive, they are deployed equitably across all routes by age. Therefore disadvantaged communities will be immediately served by the new buses as they are put into service.

TABLE 7: Service in Disadvantaged Communities Using CalEnviroScreen

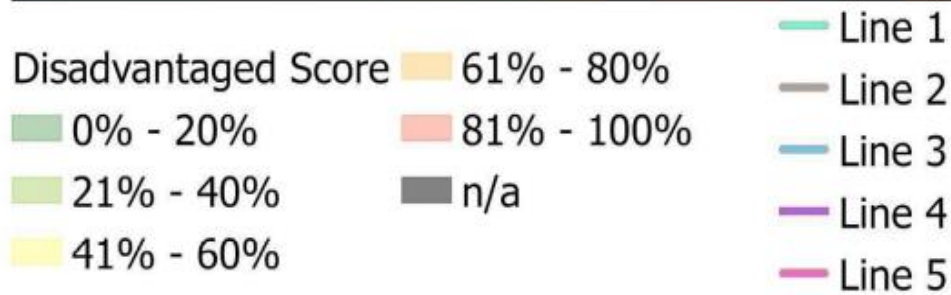
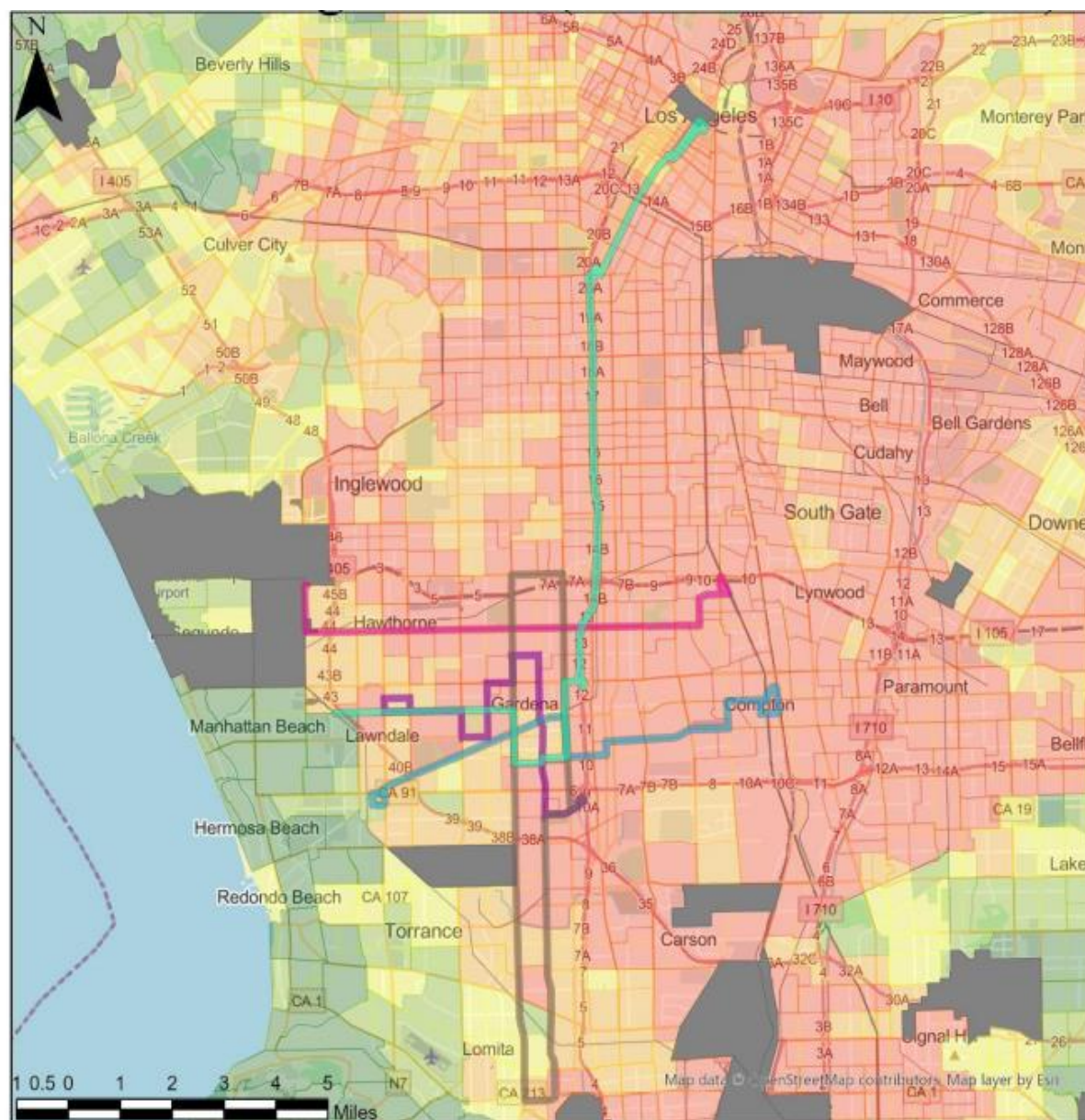


TABLE 8: Census Tracts Having Disadvantaged Communities

Division/ Facility Name	Census Tracts
GTrans Operations, Administration and Maintenance Facility 13999 S. Western Avenue, Gardena, CA 90249	6037206020, 6037206031, 6037206200, 6037206300, 6037207101, 6037207102, 6037207103, 6037207301, 6037207302, 6037207400, 6037207502, 6037207710, 6037207900, 6037222700, 6037224010, 6037224020, 6037224200, 6037224410, 6037224420, 6037224600, 6037224700, 6037226001, 6037226002, 6037226410, 6037226420, 6037226700, 6037227010, 6037228310, 6037228320, 6037228410, 6037228420, 6037228500, 6037231100, 6037231220, 6037231710, 6037231720, 6037231800, 6037231900, 6037232120, 6037241001, 6037241002, 6037241202, 6037241300, 6037241400, 6037242600, 6037242700, 6037243100, 6037291110, 6037291120, 6037291130, 6037291210, 6037291220, 6037291300, 6037292000, 6037293201, 6037293202, 6037293301, 6037293302, 6037293304, 6037293307, 6037294410, 6037294421, 6037540400, 6037540501, 6037540600, 6037540700, 6037540800, 6037540901, 6037540902, 6037541001, 6037541002, 6037541100, 6037541200, 6037541300, 6037541400, 6037541500, 6037541603, 6037541605, 6037541606, 6037542401, 6037542501, 6037542502, 6037542601, 6037542602, 6037542700, 6037542800, 6037542900, 6037543000, 6037543100, 6037543201, 6037543202, 6037543501, 6037543502, 6037543503, 6037543602, 6037543603, 6037543604, 6037600302, 6037600303, 6037600304, 6037600400, 6037602105, 6037602106, 6037602200, 6037602301, 6037602302, 6037602402, 6037602403, 6037602404, 6037602504, 6037602505, 6037602506, 6037602507, 6037602508, 6037602509, 6037602600, 6037602700, 6037602801, 6037602802, 6037602900, 6037603001, 6037603004, 6037603005, 6037603006, 6037603101, 6037603102, 6037603200, 6037603301, 6037603302, 6037603400, 6037603500, 6037603600, 6037603702, 6037603703, 6037603704, 6037603801, 6037603802, 6037603900, 6037604001, 6037604002, 6037604100, 6037620001, 6037620002, 6037620101, 6037620102, 6037620521, 6037620601, 6037620602, 6037650001, 6037650003, 6037650004, 6037650101, 6037650102, 6037650200, 6037650300, 6037650401, 6037650501, 6037650901, 6037650902, 6037651001, 6037670001, 6037670002, 6037670100, 6037980005, 6037980013


Section G: Workforce Training

1. Please describe your transit agency's plan and schedule for the training of bus operators and maintenance and repair staff on zero-emission bus technologies (13 CCR § 2023.1(d)(1)(G)). (Required)

The full transition to zero-emission buses will alter GTrans' service and operations, although with its current experience, GTrans will have a good idea of what it will entail. While training was already conducted with maintenance, operations, and bus operators to accommodate GTrans current fleet of six zero-emission buses, future training will certainly be needed as new fleet manufacturers are selected and technologies advance with each zero-emission purchase.

Such a transition will be accomplished through a combination of in-house training, and training provided by the OEMs and the California Regional Transit Training Consortium (RTTC) a partnership between educational institutions and transit agencies designed to design and deliver relevant training. GTrans will ensure advanced requirements for training equipment, content and methods will be included with the prospective manufacturer up front. Since battery technology is rapidly evolving, it is likely that buses and their supporting battery chemistries and software will change between 2023 and 2034, therefore, GTrans' future procurements/deliveries will require refresher or updated trainings for relevant staff.

GTrans has already implemented and continues to implement a number of training programs attended by its bus operators, mechanics, utility maintenance workers, and supervisors on an annual basis, including new operator training and GTrans' State Mandated Annual Refresher Training (SMART). These trainings are provided by experienced GTrans staff. Additionally, manufacturers of the zero-emission bus equipment such as the bus, charge management software, and charging equipment can provide training, including train-the-trainer courses, as it is often included in the procurement contract. These trainings encompass all propulsion technologies at GTrans, namely CNG, Gas Hybrid, and Battery Electric. The in-house curriculum includes New Bus Training, which incorporates pre-trip inspections, door operations, emergency equipment operations, steering, operational concerns, DMV pretrip, bus components, and other portions of the bus functions and operations across bus technologies. Maintenance trainings are also an imperative element of the bumper to bumper technical training curriculum for mechanics, utility workers, and supervisors that focus



on preventive maintenance requirements, hazards related to high voltage, personal protective equipment as required, component training and charging and fueling source training. These curricula take approximately three weeks to develop. Curricula generally includes a train-the-trainer mechanism of generational experiential learning within the organization. Operators train to drive the zero-emission buses, in addition to completing the content training courses which cover standard operating procedures: braking, steering, turns, bus inspections, pre-trip inspections, farebox operations, fare structure, fare media, and aiding customers with disabilities and their mobility devices.

To follow is a general list of GTrans personnel that will need zero-emission bus training, along with identified additional personnel and positions that will require some basic level of training when it comes to the full deployment of zero-emission buses:

- Bus Operators – Bus Operators will need to be familiarized with the buses, safety, bus operations, and charging operations.
- Facilities Maintenance Staff and Maintenance – Maintenance staff will need to be familiarized with scheduled and unscheduled repairs, high-voltage systems, and the specific maintenance and repair of equipment.
- First Responders – Local fire station staff will need to be familiarized with the new buses and supporting facilities.
- Tow Truck Service Providers – Tow truck providers will need to be familiarized with the new buses and proper procedures for towing ZEBs.
- Body Repairers – Autobody repair contractors will need to be familiarized with the safety-related features and other components of ZEBs.
- Utility Service Workers – Staff will become familiarized with proper charging protocol and procedures that are ZEB-specific.
- Transit Operations Supervisors – Operations Supervisors will need to be familiarized with ZEBs as they provide frontline supervision, inspection, and troubleshooting for Bus Operators.
- Training Department – Members of the Training Department must have overall familiarity with ZEBs as they teach the Bus Operators how to operate all bus types.

Section H: Potential Funding Sources

1. Please identify all potential funding sources your transit agency expects to use to acquire zero-emission technologies (both vehicles and infrastructure) (13 CCR § 2023.1(d)(1)(H)).

GTrans is prepared to pursue potential federal, state, local, and project-specific funding and financing sources that could provide this additional, necessary support as it transitions to 100 percent zero-emission bus fleet and supporting infrastructure over the next decade. While the funding opportunities below are mentioned by name, GTrans will not be limited to these sources only and will regularly assess opportunities for fiscal support for the ZEB program.

TABLE 9: Potential Funding for Transition to Zero-Emission

Type	Agency	Program
Federal	Federal Transit Administration (FTA)	Bus and Bus Facilities Discretionary Grant Program
		Low or No Emissions Vehicle Grant Program
		Urbanized Area Formula Section 5307 Funds
State	California Air Resources Board (CARB)	Hybrid and Zero Emission Truck and Bus Voucher Incentive Program (HVIP)
		State Volkswagen Settlement Mitigation
		Program Cap Trade Funding
		Energy Infrastructure Incentives for Zero-Emission Commercial Vehicles (EnergIZE Commercial Vehicles)
	California Department of Transportation	Senate Bill 1 State of Good Repair (SGR)
		Transit and Intercity Rail Capital Program (TIRCP)
		Low Carbon Transit Operations Program (LCTOP) funding
Local	Los Angeles County Metropolitan Transportation Authority (Metro)	Municipal Operators Service Improvement Program (MOSIP)
		Measure R (half-cent sales tax)



PLANNING AND ENVIRONMENTAL QUALITY COMMISSION

Regular PEQC Meeting Notice and Agenda

Website: www.cityofgardena.org

Tuesday, May 17, 2022 – 7:00 PM

1700 W. 162nd Street, Gardena, California

5. **PUBLIC HEARING ITEMS**

5.A **Site Plan Review #10-21 & Vesting Tentative Map No. 82437 (VMT #3-21)**

The applicant is requesting approval of the following to develop 22 attached condominium townhomes, including two low-income affordable units, on a 0.72-acre lot in the General Commercial and Mixed-Use Overlay zones:

- Site Plan Review (SPR #10-21) to construct 22, three-story townhomes in four buildings;
- Vesting Tentative Map No. 82437 (VMT #3-21) subdividing the property for 22 condominium units;
- Density Bonus to allow the density increase of 4 units and concession for reduction in open space requirements and waivers from the minimum project size and reduction of setbacks; and
- Direct staff to file a Notice of Exemption for a Class 32 exemption pursuant to CEQA Guidelines section 15332 for an in-fill development project. APPLICANT: G3 Urban Inc. (Representative: Mitch Gardner)
LOCATION: 2545 Marine Avenue (APN: 4064-023-018)

[Staff Report.pdf](#)

[ATTACHMENT 1 - Resolution No. 8-22.pdf](#)

[Exhibit A - Conditions of Approval with Added Condition.pdf](#)

[Exhibit B - Architectural Plans.pdf](#)

[Exhibit C - Vesting Tentative Map #82437 \(VTM #3-21\).pdf](#)

[Exhibit D - Affordable Housing Agreement and](#)

[attachments.pdf ATTACHMENT 2 - CEQA Compliance](#)

[Memo Public Comment dated 5/16/2022 .pdf](#)

Commission Action: The Planning Commission approved Resolution No. PC 8-22, by vote of 4-1-0, approving the project and directing staff to file a Notice of Exemption.



City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 11.A
Section: DEPARTMENTAL
ITEMS - ADMINISTRATIVE
SERVICES
Meeting Date: May 24, 2022

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: RESOLUTION NO. 6580, Amending the Amended Budget for Fiscal Year 2021-2022

COUNCIL ACTION REQUIRED:

Staff Recommendation: Adopt Resolution No. 6580

RECOMMENDATION AND STAFF SUMMARY:

Staff recommends that the City Council adopt Resolution No. 6580, amending the amended budget for Fiscal Year 2021-2022.

Budget amendments are required when there are significant budget variances. Staff noted such variances in the comprehensive review that was conducted for the May 12th Finance Committee. It was noted that the General Fund revenue was 16% or \$10.7 million more than the originally amended budget, and that total projected expenditures were increased by 5.5% or \$3.7 million. In addition the American Rescue Plan (ARP) Fund and the 2021 Lease Revenue Bond Funds were discussed, and needed adjustments. As a result, the Finance Committee recommended amending the amended budget for Fiscal Year 2021-2022.

FINANCIAL IMPACT/COST:

The attached staff report and presentation details the financial impacts.

ATTACHMENTS:

[Resolution 6580 - Amending the City of Gardena's Budget for Fiscal Year 2021-2022.pdf](#)

[Staff Report for Budget Amendments 5-24-22.doc](#)

[Budget Amendments for Fiscal Year 2021-2022-May 24 2022 City Council Meeting Presentation.pdf](#)

APPROVED:

A handwritten signature in blue ink, appearing to read "Clint Osorio", is centered within a light gray rectangular box.

Clint Osorio, City Manager

RESOLUTION NO. 6580

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, AMENDING THE AMENDED BUDGET FOR SAID CITY FOR THE FISCAL YEAR 2021-2022

WHEREAS, the Gardena Municipal Code provides that the City Manager of Gardena shall cause to be prepared a municipal budget; and

WHEREAS, on June 22, 2021, the City Council adopted an amended budget, covering the fiscal year commencing July 1, 2021, to and including June 30, 2022; and

WHEREAS, said budget, has been reviewed by the City Council with regard to the approval of estimated revenues and expenditures; and

WHEREAS, the City Council has made such necessary revisions to the budget for the fiscal year 2021-2022 as presented by the City Manager.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDENA DOES HEREBY FIND, DETERMINE, AND RESOLVE AS FOLLOWS:

SECTION 1. That the City Council does hereby approve and adopt said amended budget for the City of Gardena for the fiscal year 2021-2022 and by this reference is incorporated herein as if fully set forth;

SECTION 2. That copies of said budget be placed on file in the office of the City Clerk;

SECTION 3. The City Manager is hereby authorized to proceed with the implementation of the work program as incorporated in the approved and amended budget; that he has the authority to transfer any sum of appropriated funds within a department or function, and that he may carry over as needed to future years funds approved in this budget for projects, capital improvements, and capital outlay. It shall be the responsibility of the City Manager to determine the priority in which increases in personnel and capital acquisition shall be programmed for accomplishment during this year consistent with the availability of revenue and subject to the requirements of the Gardena Municipal Code regarding the expenditure of funds and the employment of personnel;

SECTION 4. That this Resolution shall be effective immediately.

BE IT FURTHER RESOLVED that the City Clerk shall certify to the passage and adoption of this Resolution; shall cause the same to be entered among the original Resolutions of said City; and shall make a minute of the passage and adoption thereof

in the records of the proceedings of the City Council of said City in the minutes of the meeting at which the same is passed and adopted.

Passed, approved, and adopted this 24th day of May 2022.

TASHA CERDA, Mayor

ATTEST:

MINA SEMENZA, City Clerk

APPROVED AS TO FORM:



CARMEN VASQUEZ, City Attorney

CITY COUNCIL MEETING

AGENDA STAFF REPORT

Agenda Item No.: 11 A.

Department: Administrative Services

Meeting Date: 5/24/2022

Resolution No.: 6580

AGENDA TITLE: Resolution No. 6580, Amending the Amended Budget for Fiscal Year 2021-2022

Recommendation:

Staff respectfully recommends that the City Council adopt Resolution No. 6580 Amending the Amended Budget for Fiscal Year 2021-2022.

Background:

Budget amendments are required when there are significant budget variances. Staff noted such variances in the comprehensive review that was conducted for the May 12th Finance Committee. It was noted that the General Fund revenue was 16% or \$10.7 million more than the originally amended budget, and that total projected expenditures were increased by 5.5% or \$3.7 million. Staff also noted budget variances for two other funds: the American Rescue Plan (ARP) Fund and the 2021 Lease Revenue Bonds. City was informed that we will receive \$7.5M remaining ARP balance this fiscal year thus we will need to amend the budget to reflect that.

General Fund:

Revenues

Overall, based on the latest revenue projections, General Fund revenue is being amended to increase the Fiscal Year 2021-2022 Amended Budget from \$66,920,836 to \$77,600,584, an increase of \$10,679,748. The primary indicators of this increase are listed below.

Sales & Use Tax – Adopted Budget for Fiscal Year 2021-2022 was \$20,191,841. Amend to \$24,694,089. The increase of \$4,502,249 is due to higher lumber price, Measure G, and improved economic conditions.

Card Club Gross Revenue – Adopted Budget for Fiscal Year 2021-2022 was \$7,500,000. Amend to \$10,259,687. The increase of \$2,759,687, \$1.75 million of which is from the casino insurance recovery for loss of revenue.

Property Tax - Adopted Budget for Fiscal Year 2021-2022 was \$8,704,634. Amend to \$8,750,000. A minimal increase of \$45,366.

Vehicle License Fee - Adopted Budget for Fiscal Year 2021-2022 was \$7,362,472. Amend to \$7,398,128. A minimal increase of \$35,656.

Franchise & Other Taxes - Adopted Budget for Fiscal Year 2021-2022 was \$4,555,000. Amend to \$4,410,268. The decrease of \$144,732 is from less Transient Occupancy Tax (TOT) for the fiscal year because of Covid-19.

License & Permits - Adopted Budget for Fiscal Year 2021-2022 was \$1,779,976. Amend to \$2,000,000. The increase of \$220,024 is mainly due to the improvement of permit processing to clear the backlog during Covid-19 with the use of staff augmentation.

Fines & Forfeitures - Adopted Budget for Fiscal Year 2021-2022 was \$980,000. Amend to \$1,080,368. An increase of \$100,368 mainly due to efficient collection method from our contractor.

Investment Income - Adopted Budget for Fiscal Year 2021-2022 was \$255,000. Amend to \$151,000. A decrease of \$104,000 due to low interest rates and lower fair market value for some investments.

Current Service Charges - Adopted Budget for Fiscal Year 2021-2022 was \$2,268,298. Amend to \$2,203,345. The decrease of \$64,953 is due to less recreational classes were provided due to Covid-19 restrictions.

Other Revenue - Adopted Budget for Fiscal Year 2021-2022 was \$562,036. Amend to \$494,536. A decrease of \$67,500 is mainly from less engineering job cost reimbursement than budgeted.

Charges to Other Funds - Adopted Budget for Fiscal Year 2021-2022 was \$2,098,821. Amend to \$1,973,821. The decrease of \$125,000 is from less transfer in from Gas Tax Fund due to funding availability.

Transfer in - Adopted Budget for Fiscal Year 2021-2022 was \$2,707,439. Amend to \$6,230,022. Increase of \$3,522,583 for ARP Reimbursement.

Expenditures

Based on the latest expenditure projections, General Fund expenditure is being amended to increase the Fiscal Year 2021-2022 Amended Budget from \$66,865,341 to \$70,551,358, an increase of \$3,686,017. Overall, expenditures have been increased as described below:

Departmental Budget – Total Departmental Adopted Budget was \$43,426,324. Amend to \$43,174,236. A decrease of \$252,088 is mainly due to salary savings from vacancies and better expenditure monitoring.

Non-Departmental Budget – Adopted Budget was \$12,551,155. Amend to \$12,636,043. The increase of \$86,888 is from less ambulance credit from LA County Fire protection services.

Transfer to Internal Service Funds, Capital Improvement Program & UAL Funds – Adopted Budget was \$5,142,079. Amend to \$5,637,079. The increase of \$495,000 for additional transfer to Liability Fund to account for several anticipated settlements.

Transfer to Deferred Maintenance Fund – Adopted Budget was \$500,000. Amend to \$2,000,000. An increase of \$1,500,000 to fund several pending facility improvement projects including Fire Station Roof Replacement and City Hall Roof Rehabilitation.

Transfer Technology Fund – Adopted Budget was \$50,000. Amend to \$800,000. The increase of \$750,000 is for the anticipated replacement of the current Enterprise Resource Planning (ERP) system, which is expected to sunset in several years.

Transfer Other Post-Employment Benefits Fund – Adopted Budget was \$0. Amend to \$500,000. An increase of \$500,000 to reduce the current liability.

Transfer Debt Service– Adopted Budget was \$2,017,437. Amend to \$2,623,653. Increase of \$606,216 for 2021 Lease Revenue Bonds debt service payment.

Special Revenue Funds

American Rescue Plan (ARP) Fund – Adopted Revenue was \$0, amend to \$7,501,031, an increase of \$7,501,031. City was notified by the Treasury that we will receive the remaining balance in this fiscal year. Of which, \$3.5M, can be claimed for revenue loss. Adopted Expenditure was \$0, amend to \$3,552,583, increase of \$3,552,583 for revenue loss recognition.

Debt Service Funds

2021 Lease Revenue Bonds – Adopted Revenue was \$0, amend to \$606,216, an increase of \$606,216. Adopted Expenditure was \$0, amend to \$606,216, increase of \$606,216. The increase of both revenue and expenditure for the 2021 Lease Revenue Bonds Fund is to account for the debt service payment made in Fiscal Year 2021-2022. The bonds were issued in September 2021, which is after the adoption of budget in June 2021.

FISCAL IMPACT/COST:

For General Fund, staff is projecting a \$7M surplus for this fiscal year due to the recognition of \$3.5M ARP revenue, strong sales tax receipts and \$1.75M casino insurance loss of revenue reimbursement. The projected General Fund Reserve Balance will be at \$32M or 45% of expenditures at year end. Due to the June receipt of the \$7.5M ARP funding and large budget variance, and upon the recommendation of the Finance Committee staff requests that Council approve the amendment of the amended Fiscal Year 2021-22 Budget.



City of Gardena

Fiscal Year 2021-2022 Budget Amendments

City Council Meeting

May 24, 2022



BACKGROUND

- Budget amendments are required when there are significant budget variances
- At the May 12th Finance Committee, staff presented a comprehensive review and projection of the General Fund Budget for Fiscal Year 2021-2022
- It was noted that the projected General Fund revenue was 16%, or \$10.7M, more than the budget adopted on June 22, 2021
- The projected General Fund total expenditures increased by \$3.7M, or 5.5%, than the budget adopted on June 22, 2021
- American Rescue Plan (ARP) and 2021 Lease Revenue Bond Funds were discussed, and needed adjustments
- As a result, the Finance Committee recommended amending the Fiscal Year 2021-22 Budget to the City Council



GENERAL FUND REVENUE PROJECTED VS BUDGETED

GENERAL FUND REVENUE SOURCES	FY 21-22 PROJECTED	FY 21-22 BUDGET	PROJECTED VS BUDGET	PROJECTED VS BUDGET %
Sales Tax - Bradley-Burns 1%	14,443,572	12,578,790	1,864,782	14.8%
Sales Tax - Measure G 0.75%	10,250,517	7,613,051	2,637,466	34.6%
Card Club Gross Revenue Fees*	10,259,687	7,500,000	2,759,687	36.8%
Property Taxes	8,750,000	8,704,634	45,366	0.5%
Utility Users Tax	4,877,820	4,877,820	-	-
Vehicle License Fees	7,398,128	7,362,472	35,656	0.5%
Business License Tax	2,550,000	2,550,000	-	-
Franchise & Other Taxes (Including TOT)	4,410,268	4,555,000	(144,732)	-3.2%
License and Permits	2,000,000	1,779,976	220,024	12.4%
Fines and Forfeitures	1,080,368	980,000	100,368	10.2%
Investment Income	151,000	255,000	(104,000)	-40.8%
Intergovernmental	527,500	527,500	-	-
Current Service Charges	2,203,345	2,268,298	(64,953)	-2.9%
Other Revenue	494,536	562,036	(67,500)	-12.0%
Transfers In	1,973,821	2,098,821	(125,000)	-6.0%
Charges to Other Funds	2,677,439	2,707,439	(30,000)	-1.1%
ARP Reimbursement	3,552,583	-	3,552,583	-
TOTAL GF REVENUES	77,600,584	66,920,836	10,679,748	16.0%

*Includes \$1.75M casino revenue insurance recovery
Fund 010 only

City Council Meeting – May 24, 2022



GENERAL FUND EXPENDITURES PROJECTED VS BUDGETED

GENERAL FUND EXPENDITURES	FY 21-22 PROJECTED	FY 21-22 BUDGET	PROJECTED VS BUDGET	PROJECTED VS BUDGET %
Departmental Budget	43,174,237	43,426,324	(252,087)	-0.6%
Non-Departmental-Including Fire, RCC	12,638,043	12,551,155	86,888	0.7%
Transfer to Post Employment Benefits	3,178,346	3,178,346	-	-
Transfer to ISF, CIP & UAL Funds	5,637,079	5,142,079	495,000	9.6%
Transfer to Deferred Maintenance Fund	2,000,000	500,000	1,500,000	300%
Transfer to Technology Fund	800,000	50,000	750,000	1500%
Transfer to OPEB Fund	500,000	-	500,000	-
Transfer to Debt Service	2,623,653	2,017,437	606,216	30%
TOTAL GF EXPENDITURES	70,551,358	66,865,341	3,686,017	5.5%



GENERAL FUND BUDGET AMENDMENT

General Fund	Adopted 2021-2022	Projected 2021-2022	Variance \$	Variance %
Revenue	66,920,836	77,600,584	10,679,748	16%
Expenditures	(66,865,341)	(70,551,358)	(3,686,017)	5.5%
Surplus/(Deficit)	55,495	7,049,226	6,993,731	12,602%
Ending GF Fund Balance*	25,011,699	32,005,430	-	-
GF Fund Balance % of Expenditures	37.4%	45.4%	-	8%

- Revenue – mainly due to \$4.5M additional Sales & Use Tax (Measure G), \$2.7M additional Card Club Revenue Fees (\$1.75M from insurance recovery), and \$3.5M for ARP revenue loss claim
- Expenditures – Additional transfer to Liability, OPEB, Technology, Deferred Maintenance & Debt Service Funds

*Fund 010 only

City Council Meeting – May 24, 2022

AMERICAN RESCUE PLAN (ARP) FUND BUDGET AMENDMENT



American Rescue Plan (ARP)	Adopted 2021-2022	Projected 2021-2022	Variance \$	Variance %
Revenue	-	7,501,031	7,501,031	-
Expenditures	-	(3,552,583)	(3,552,583)	-
Surplus/(Deficit)	-	3,948,448	3,948,448	-

- City will receive the remaining balance of \$7,501,031 from ARP in June 2022
- Claim \$3,552,583 for revenue loss and transfer to General Fund
- Funds were allocated to general government services
 - Supporting public safety services including Police, emergency communication services, and fire protection services
 - Supporting vital government functions and services during Covid-19 emergency
- Remaining Funds must be spent by December 31, 2024



2021 LEASE REVENUE BONDS FUND BUDGET AMENDMENT

➤ 2021 Lease Revenue Bonds

2021 Lease Revenue Bonds	Adopted 2021-2022	Projected 2021-2022	Variance \$	Variance %
Revenue	-	606,216	606,216	-
Expenditures	-	(606,216)	(606,216)	-
Surplus/(Deficit)	-	-	-	-

- Issued in September 2021 after the original budget adoption (June 22, 2021)
- Annual debt service payment of \$606,216 is required for Fiscal Year 2021-2022



2021 LEASE REVENUE BONDS

- \$15M bond proceeds to finance Community Aquatics & Senior Center, Rosecrans Community Center, Mas Fukai Project, and various park projects
- 20-year bonds with total interest rate cost of 1.99%
- City saved \$3.8M by taking advantage of the historic low interest rate

2021 Lease Revenue Bonds	September 2021	Today	Difference
Interest Rate	1.99%	4.04%	2.05%
Total Debt Service	18,474,216	22,279,570	\$3,805,354
Total Savings			\$3,805,354



City of Gardena

Fiscal Year 2021-2022 Budget Amendment

City Council Meeting

May 24, 2022



City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 11.B
Section: DEPARTMENTAL
ITEMS - ADMINISTRATIVE
SERVICES
Meeting Date: May 24, 2022

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: Presentation of the City of Gardena's Proposed Two-Year Budget for Fiscal Years 2022-2023 and 2023-2024

COUNCIL ACTION REQUIRED:

Staff Recommendation: Receive and File

RECOMMENDATION AND STAFF SUMMARY:

Presented for Council consideration is the City of Gardena's Proposed Two-Year Budget for Fiscal Years 2022-2023 and 2023-2024, including General Fund, Enterprise Funds, Special Revenue Funds and all Other Fund types.

The proposed budget is being presented to the City Council and public, and will be available for public review and comment until the June 28th City Council meeting. The proposed budget is structurally balanced and reflective of the City's current financial position.

Following its presentation at the May 24th City Council meeting, the proposed two-year budget will be posted on the City's website and also available in the City Clerk's Office.

The final draft of the proposed budget will be presented for approval on June 28, 2022.

FINANCIAL IMPACT/COST:

Budgeted	Revenue	Expenditure
General Fund	\$ 76,653,769	\$76,616,761
Enterprise Funds (GTrans)	\$ 35,437,041	\$35,437,041
Enterprise Funds (Sewer)	\$ 2,660,000	\$2,427,020
Special Revenue & Other Funds	\$124,451,147	\$127,676,351

Total FY 22/23	\$239,201,957	\$242,157,173
Budgeted	Revenue	Expenditure
General Fund	\$ 77,593,605	\$77,554,469
Enterprise Funds (GTrans)	\$ 49,768,535	\$49,768,535
Enterprise Funds (Sewer)	\$ 2,686,450	\$2,047,172
Special Revenue & Other Funds	\$78,379,960	\$78,747,473
Total FY 23/24	\$208,428,550	\$208,117,649

ATTACHMENTS:

[Proposed Budget FY 2023 & 2024 Presentation-May 24 2022 CC.pdf](#)

[Proposed Budget Book - May 24 2022.pdf](#)

APPROVED:



Clint Osorio, City Manager

City Council Meeting
May 24, 2022



PROPOSED BUDGET FISCAL YEAR:

2022-2023 ————— 2023-2024

CITY OF GARDENA





MISSION & VISION

HIGHER QUALITY OF LIFE

...ACHIEVED BY CONSISTENT & CONTINUOUS IMPROVEMENT

► OUR MISSION

The elected leadership and employees of the City of Gardena individually and collectively are committed to maintaining an efficient and effective government that ensures the highest quality of life, a safe and attractive environment, and a sound economic future for the community.

► OUR VISION

We envision Gardena as one of the most desired communities in which to live, do business, work, and play in the South Bay.

► OUR DUTY

As public servants it is our duty and our desire to provide reliable service guided by our commitment to these Core Values.

ORGANIZATIONAL VALUES

- Fiscal Accountability & Sustainability
- Workforce Excellence
- Community Involvement

COMMUNITY VALUES

- Safe Community Environment
- Sustainable Economic Development
- Attractive & Livable Neighborhoods



HOW WE GOT HERE

Covid-19 pandemic – City faced tremendous financial difficulty and immediately froze hiring & promotion

March 2020

City adopted a (\$1.8M) structural deficit budget with 91 positions removed vs prior year and reduced \$8.9M for FY 2020-21 budget via Covid-19 Financial Mitigation Plan

June 2020

Gardena received \$7.5M or 50% of the \$15M American Rescue Plan (ARP) funding allocated to the City – Gardena claimed \$11M for Covid-19 revenue loss

May 2021

City issued \$13.1M Lease Revenue Bonds (paid for by Measure G) at ~1.99% to finance the Community Aquatics & Senior Center, new Rosecrans Community Center and park projects

September 2021

March 2020

Gardena voters approved Measure G, providing approximately \$7.5M annually to maintain City services – effective July 1, 2021

November 2020

City issued \$101M Taxable Pension Obligation Bond (POB) at ~3.29% to save \$51M for the next 19 years

June 2021

With the ARP funding injection, POB savings, Measure G revenue, and implementation of the Financial Mitigation Plan, the City ended the fiscal year with the largest budget surplus in City history, \$14.2M

December 2021

City was awarded Prop 68 maximum grant amount of \$8.5M to fund the Community Aquatic & Senior Center



WHERE DO WE GO FROM HERE

Proposed Budget for Fiscal Year 2022-23 & 2023-24 includes the largest Capital Improvement Program budget, \$56.3M

May 2022

*- Projected \$7M in surplus for Fiscal Year 2021-22 with General Fund Reserve Balance at \$32M or 45% of Exp.
- Adopt Budget for Fiscal Year 2022-23 & 2023-24*

June 2022

Projected \$39K in surplus for Fiscal Year 2023-24 with GF Reserve Balance at \$32M or 41% of Expenditures

June 2024

Completion of the Mas Fukai Park new multipurpose building

December 2024

June 2022

City is expected to receive \$7.5M, remaining balance for ARP allocation (\$3.5M earned in FY 2021-22)

June 2023

Projected \$37K in surplus for Fiscal Year 2022-23 with GF Reserve Balance at \$32M or 42% of Expenditures

July 2024

Gardena Community Aquatic & Senior Center estimated opening date

December 2025

Completion of the Rosecrans Community Center



DID YOU KNOW?

- Had the current City Council not taken advantage of the historic low interest rates when issuing the 2020 Pension Obligation Bonds (POB) and the 2021 Lease Revenue Bonds, **City would have paid an extra \$26.5M for those bonds at today's rates**

2020 Pension Obligation Bonds (POB)	At Issuance	Today	Difference
Interest Rate (Issued in November 2020)	3.29%	5.19%	1.90%
Total Debt Service	\$137,992,806	\$160,752,443	\$22,759,637
2021 Lease Revenue Bonds			
Interest Rate (Issued in September 2021)	1.99%	4.04%	2.05%
Total Debt Service	\$18,474,216	\$22,279,570	\$3,805,354
Total Savings			\$26,564,991



INVESTING IN CITY RESOURCES

- Investing in City's greatest resource, its employees
 - **December 2021** – City Council approved 4-year MOU with the largest recognized labor group, GMEA – Total estimated compensation package of \$6.8M for the term of the contract (3.5% COLA FY 2022, 4% COLA & 1% PERS contribution for FY 2022-23 to FY 2024-25)
 - **December 2021** – City Council approved 4-year MOU with GMEO – Total estimated compensation package of \$1.5M for the term of the contract (3.5% COLA FY 2022, 4% COLA & 1% PERS contribution for FY 2022-23 to FY 2024-25)
 - **Proposed Budget**
 - Add 60 positions (36FT & 24PT) in FY 2022-23 and another 23 positions (7FT & 16PT) in FY 2023-24

GMEA – Gardena Municipal Employees Association

GMEO – Gardena Management Employees Organization



PROPOSED BUDGET PERSONNEL SUMMARY

Department	FY 2019-20 Adopted		FY 2020-21 Adopted		FY 2021-22 Adopted		FY 2022-23 Proposed		FY 2023-24 Proposed	
	FT	PT	FT	PT	FT	PT	FT	PT	FT	PT
Administrative Services	20	-	14	-	14	2	18	2	18	3
Community Development	16	-	11	-	11	2	14	2	14	2
Elected & City Manager's Offices	10	-	9	1	10	2	11	1	11	1
GTrans	119	39	105	33	107	33	125	35	127	36
Police Department	118	24	109	20	108	20	113	21	115	21
Public Works	47	13	40	3	42	5	45	5	45	5
Recreation & Human Services	33	60	27	36	28	37	30	59	33	73
Total Citywide	363	136	315	93	320	101	356	125	363	141
Net Change in Positions from Prior Fiscal Year	-	-	-48*	-43*	+5	+8	+36	+24	+7	+16

FT – Full-Time; PT – Part-Time

*Covid-19 Financial Mitigation Plan



INVESTING IN THE COMMUNITY

- Investing in the community
 - **August 2021** – City Council authorized the issuance of \$13.1M Lease Revenue Bonds (paid for by Measure G) to finance the cost of the Gardena Community Aquatic & Senior Center, Rosecrans Community Center, Mas Fukai Park Improvements, and various park projects (Interest Rate of ~1.99%)
 - **Proposed Budget** – Includes the largest Capital Improvement Program (CIP) budget of \$56.3M, FY 2022-23 \$40.5M and FY 2023-24 \$15.8M
 - \$14.9M for Gardena Community Aquatic & Senior Center
 - \$6M for Rosecrans Community Center project
 - \$4.5M for Mas Fukai Park Improvements
 - \$3.7M for other park amenities and facility improvements
 - \$27.2M for streets, signals, pedestrian safety, and storm drain projects



GENERAL FUND PROPOSED BUDGET FISCAL YEAR 2022-2023 & 2023-2024 REVENUES



GENERAL FUND PROPOSED REVENUE

FISCAL YEAR 2022-2023

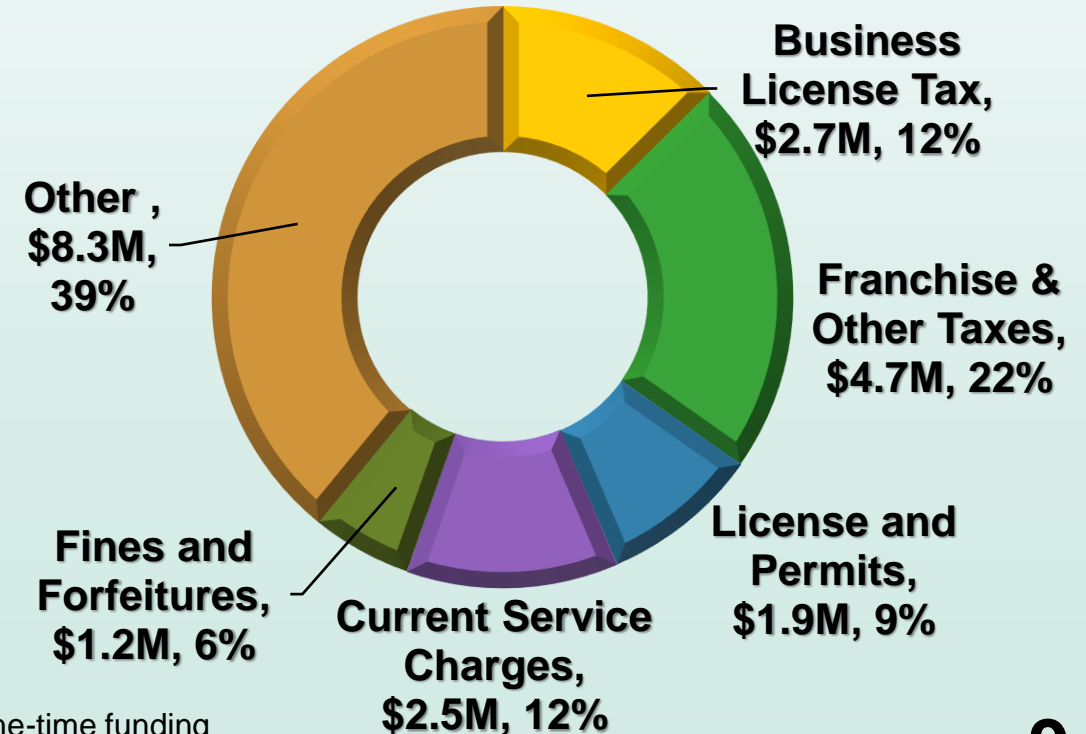
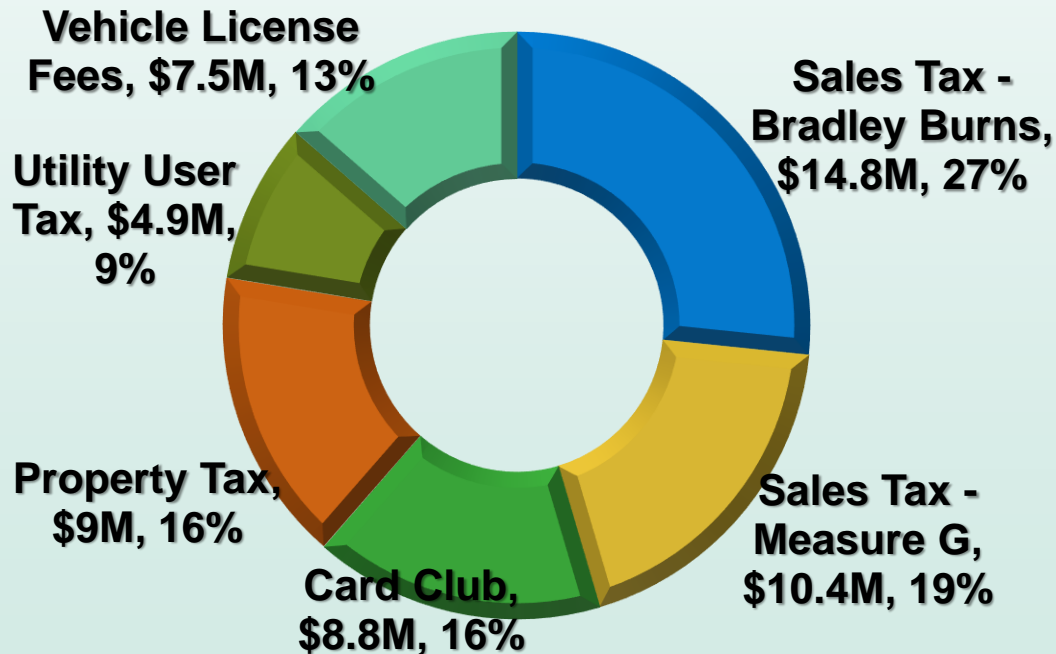
-1.2%
-\$947K

*Decrease compared to FY 2021-22 Projected

\$76,653,769

Top 5 (72%)
\$55,383,320

Other (28%)
\$21,270,449



*Decrease of \$947K is mainly due to prior year one-time funding injection such as ARP & Lucky Lady insurance reimbursement



GENERAL FUND PROPOSED REVENUE

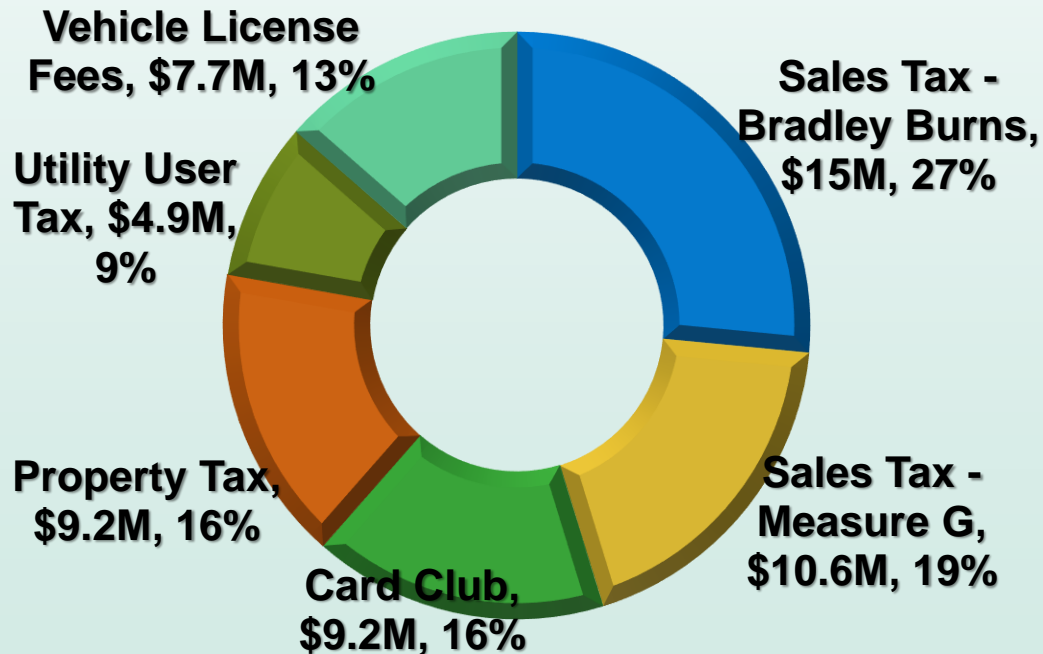
FISCAL YEAR 2023-2024

+1.2%
+\$940K

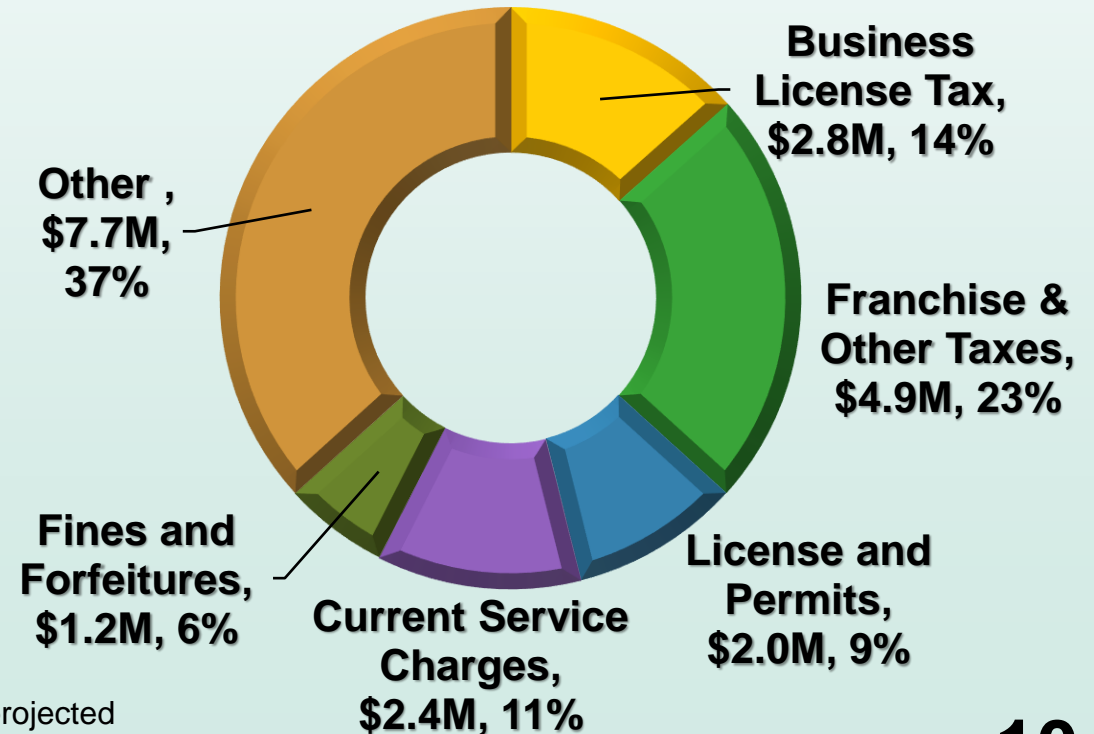
Increase
compared to
FY 2022-23
Proposed

\$77,593,605

Top 5 (73%)
\$56,641,110



Other (27%)
\$20,952,495



*Increase of \$940K is mainly due to the projected increase in Sales Tax and Card Club revenues



GENERAL FUND PROPOSED REVENUE

FISCAL YEAR **2022-2023** & **2023-2024**

REVENUES	PROJECTED 2021-22	PROPOSED 2022-23	VS 2021-22 PROJECTED	PROPOSED 2023-24	2023-24 VS 2022-23 PROPOSED
Sales and Use Tax – Bradley-Burns	14,443,572	14,750,116	+2.1%	15,018,576	+1.8%
Sales and Use Tax – Measure G	10,250,517	10,415,067	+1.6%	10,605,000	+1.8%
Card Club Gross Revenue Fees*	10,259,687	8,840,000	-13.8%	9,193,600	+4%
Property Tax	8,750,000	8,965,773	+2.5%	9,234,746	+3%
Vehicle License Fees	7,398,128	7,509,721	+1.5%	7,659,916	+2%
Utility Users Tax	4,877,820	4,902,643	+0.5%	4,929,272	+0.5%
Business License Tax	2,550,000	2,677,500	+5%	2,811,375	+5%
Franchise and Other Taxes	4,410,268	4,714,425	+6.9%	4,879,430	+3.5%
License and Permits	2,000,000	1,875,038	-6.2%	1,968,790	+5%
Fines and Forfeitures	1,080,368	1,185,368	+9.7%	1,220,929	+3%
Current Service Charges	2,203,345	2,506,467	+13.8%	2,377,600	-5.1%
Other Revenue	1,172,536	1,374,536	+17.2%	1,404,536	+2%
Charges to Other Funds	2,677,439	2,698,115	+0.8%	2,702,388	-
Transfers In	5,526,404	4,239,000	-23%	3,587,448	-15%
TOTAL REVENUE	77,600,584	76,653,769	-1.2%	77,593,605	+1.2%

*FY 2021-22 includes \$1.75M casino revenue insurance recovery



GENERAL FUND PROPOSED BUDGET FISCAL YEAR 2022-2023 & 2023-2024

EXPENDITURES



GENERAL FUND PROPOSED EXPENDITURES

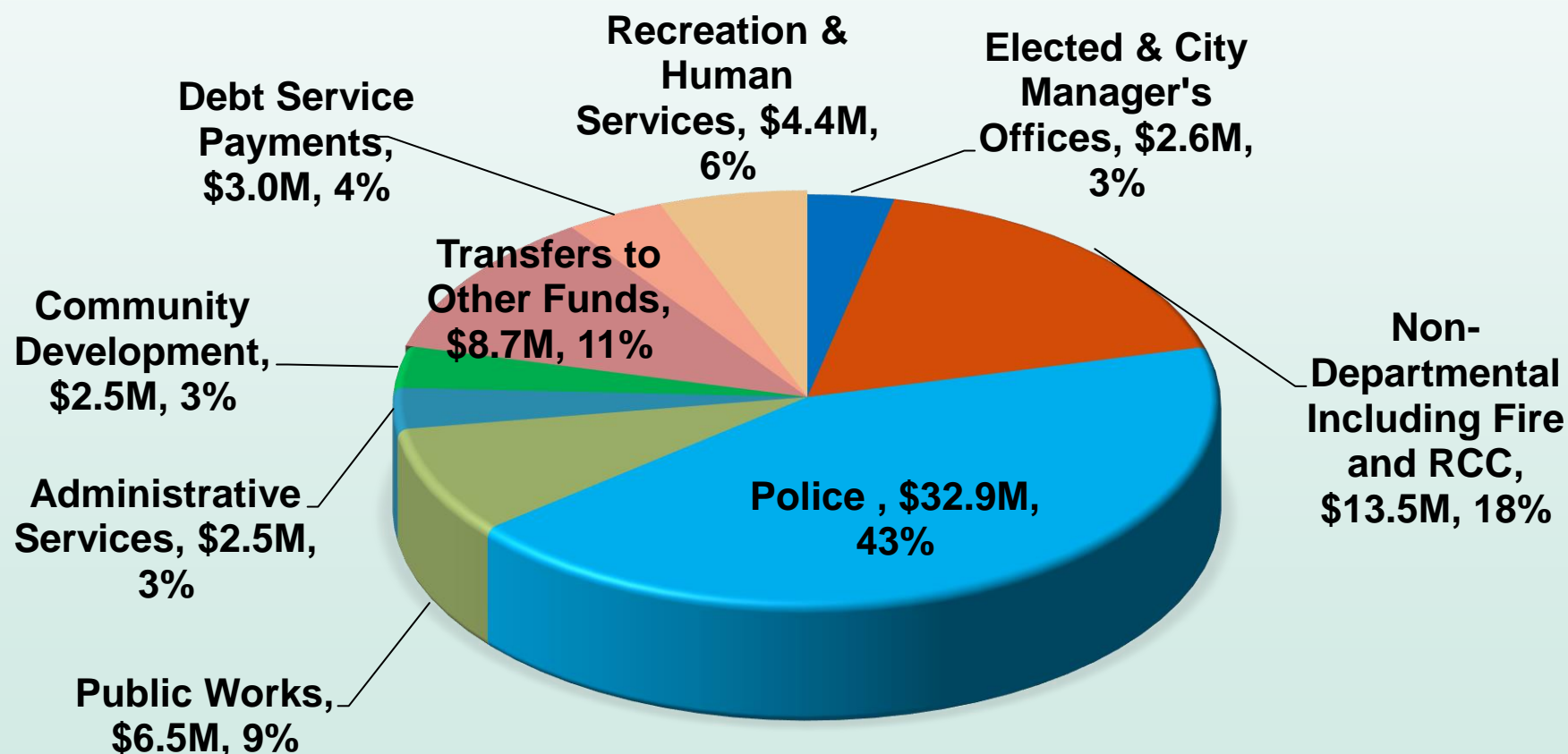
FISCAL YEAR 2022-2023

+14.6%

+\$9.8M

*Increase compared to FY 2021-22 Adopted

\$76,616,761



*Increase of \$9.7M is mainly due to additional staff, COLA and transfer to Internal Service Funds



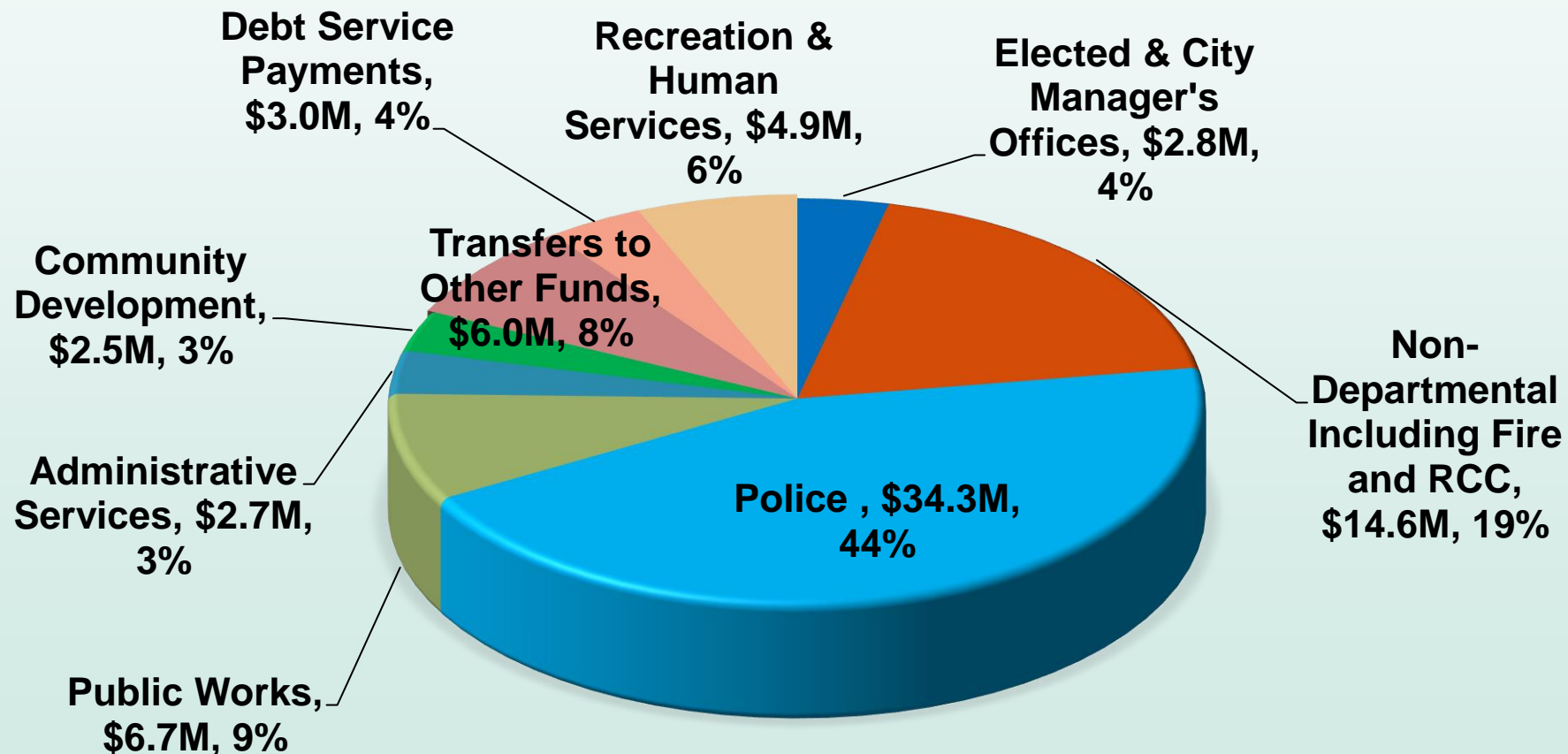
GENERAL FUND PROPOSED EXPENDITURES

FISCAL YEAR 2023-2024

+1.2%
+\$938K

Increase
compared to
FY 2022-23
Proposed

\$77,554,469



*Increase of \$938K is from the additional staffing cost/COLA



GENERAL FUND PROPOSED EXPENDITURES

FISCAL YEAR **2022-2023** & **2023-2024**

EXPENDITURES	ADOPTED 2021-22	PROPOSED 2022-23	VS 2021-22 ADOPTED	PROPOSED 2023-24	2023-24 vs 2022-23 PROPOSED
Administrative Services	1,902,684	2,490,589	+30.8%	2,672,264	+7.3%
Community Development	1,808,444	2,519,383	+39.3%	2,537,141	+0.7%
Elected & City Manager's Offices	2,124,847	2,631,900	+23.8%	2,841,708	+8%
Police	28,642,651	32,878,497	+14.8%	34,309,188	+4.4%
Public Works	5,561,882	6,509,050	+17%	6,656,917	+2.3%
Recreation & Human Services	3,385,816	4,436,453	+31%	4,929,066	+11%
Non-Departmental	12,551,155	13,501,048	+7.6%	14,640,514	+8.4%
Transfers Out	10,887,862	11,649,841	+7%	8,967,671	-23%
TOTAL	66,865,341	76,616,761	+14.6%	77,554,469	+1.2%



GENERAL FUND PROPOSED FUND BALANCE FISCAL YEAR 2022-2023 & 2023-2024

General Fund Proposed Budget	Proposed 2022-2023	Proposed 2023-2024
Total Revenue	76,653,769	77,593,605
Total Expenditures	(76,616,761)	(77,554,469)
Budget Surplus / (Deficit)	37,008	39,136
GF Reserve Beginning Balance	32,005,430	32,042,438
GF Reserve Ending Balance	32,042,438	32,081,574
GF Reserve Balance % of Expenditures	42%	41%

Fund 010 only



GENERAL FUND PROPOSED BUDGET FISCAL YEAR 2022-2023 & 2023-2024

BY DEPARTMENT



ADMINISTRATIVE SERVICES

City of Gardena

The Administrative Services Department includes Human Resources, Technology, and, the Finance Division. We safeguard the short and long-term financial stability of the community through prudent fiscal policies, coordinate the recruitment and retention of top-notch employees, and safeguard the sensitive information that filters through our technology department. We are committed to providing excellent service to our internal departments and our community.

01 GOAL

Conduct an RFP to initiate the process of obtaining a new Enterprise Resource Planning system for accounting, procurement, planning, human resources, permitting, licensing, etc.

02 GOAL

Conducting a classification and compensation study to assure that top-notch employees are recruited and retained.

03 GOAL

Updating and streamlining the City websites to provide easily accessible information to the community.



PROPOSED BUDGET

ADMINISTRATIVE SERVICES

- **Operational Changes:**
 - Human Resources is now under Administrative Services
- **Personnel Changes:**

Administrative Services Department	FY 2019-20 Adopted		FY 2020-21 Adopted		FY 2021-22 Adopted		FY 2022-23 Proposed		FY 2023-24 Proposed	
	FT	PT	FT	PT	FT	PT	FT	PT	FT	PT
Administrative Services	20	-	14	-	14	2	18	2	18	3
Net Change in Positions from Prior Fiscal Year	-	-	-6*	-	-	+2	+4	-	-	+1

FT – Full-Time

PT – Part-Time

*Covid-19 Financial Mitigation Plan



COMMUNITY DEVELOPMENT DEPARTMENT

City of Gardena

The Community Development Department provides a variety of services. City Planning provides support to administer plans, programs, design guidelines and new legislation. The Economic Development Division is responsible for the attraction, retention, and expansion of businesses. The Building and Safety Division reviews construction plans to ensure they meet state building codes, issue permits, and provides inspections. The Code Enforcement and Animal Control Division ensure code compliance and investigate violations ensuring properties and activities are conducted in accordance with the City's municipal code.

01 GOAL

Establish economic development programs to enhance business outreach, marketing, and investment, increasing communication and partnership with local businesses.

02 GOAL

Expedite the building plan check process by providing online payment option for plan check fees, reducing customer wait time for plan check process.

03 GOAL

Maintain awareness and applicability of all new housing legislation to minimize any negative impacts to the City, increasing knowledge and proficiency of housing legislation.



PLANNING FOR
THE FUTURE.



More Information:
www.cityofgardena.org



PROPOSED BUDGET

COMMUNITY DEVELOPMENT

- **Operational Changes:**
 - Code Enforcement is now fully under Community Development
- **Personnel Changes:**

Community Development Department	FY 2019-20 Adopted		FY 2020-21 Adopted		FY 2021-22 Adopted		FY 2022-23 Proposed		FY 2023-24 Proposed	
	FT	PT	FT	PT	FT	PT	FT	PT	FT	PT
Community Development	16	-	11	-	11	2	14	2	14	2
Net Change in Positions from Prior Fiscal Year	-	-	-5*	-	-	+2	+3	-	-	-

FT – Full-Time

PT – Part-Time

*Covid-19 Financial Mitigation Plan



J. Ingrid Tsukiyama
City Treasurer



Mark E. Henderson Ed. D
Councilmember



Rodney G. Tanaka
Mayor Pro Tem



Tasha Cerda
Mayor



Paulette C. Francis
Councilmember



Art Kaskanian
Councilmember



Mina Semenza
City Clerk



Clint Osorio
City Manager

ELECTED & CITY MANAGER'S OFFICES

City of Gardena

CITY COUNCIL

- Legislative body for the City of Gardena.
- Provide public policy and operational direction to the City Manager.
- Establish City services and uphold service city.

CITY MANAGER

- Appoints all department heads and oversees operations of all City departments.
- Implements Mayor and City Council's policy decisions and objectives.
- Provide direction for the preparation of the budget as well as oversight of budget spending.

CITY CLERK

- Maintains records and updates Municipal Code.
- Provides resources to the public and City staff.
- Publication and posting of ordinances, meetings, and other legal notices.

CITY TREASURER

- Performs oversight of the investing of public funds.
- Advises the City Council with regards to investment policies.
- Provides centralized cashing system service for all City departments.



PROPOSED BUDGET

ELECTED & CITY MANAGER'S OFFICES

- **Operational Changes:**
 - None
- **Personnel Changes:**

Elected & City Manager's Offices	FY 2019-20 Adopted		FY 2020-21 Adopted		FY 2021-22 Adopted		FY 2022-23 Proposed		FY 2023-24 Proposed	
	FT	PT	FT	PT	FT	PT	FT	PT	FT	PT
Elected & City Manager's Offices	10	-	9	1	10	2	11	1	11	1
Net Change in Positions from Prior Fiscal Year	-	-	-1*	+1	+1	+1	+1	-1	-	-

FT – Full-Time

PT – Part-Time

*Covid-19 Financial Mitigation Plan



POLICE DEPARTMENT

City of Gardena

Our role is to foster a responsible partnership with the community to identify, reduce, eliminate, and prevent problems that impact community safety and order. Our employees provide law enforcement services directed toward achieving the goals and objectives of the Police Department and the City. While adhering to the Law Enforcement Code of Ethics, we execute our activities along with our fellow departments to ensure that all work efforts effectively mobilize the resources of the Police Department to promote public safety in our community.

01 GOAL

Succession Planning-
Develop innovative ways to recruit, mentor, and retain the next generation of employees at the Gardena Police Department.

02 GOAL

District Policing-
Continue to evolve our Community Policing outreach to strengthen trust with our community partners.

03 GOAL

Innovation and Technology to Create a Safer Future-
Use innovation and technology to increase safety and effectiveness when impacting crime and disorder.



PROPOSED BUDGET POLICE DEPARTMENT

- **Operational Changes:**

- None

- **Personnel Changes:**

Police Department	FY 2019-20 Adopted		FY 2020-21 Adopted		FY 2021-22 Adopted		FY 2022-23 Proposed		FY 2023-24 Proposed	
	FT	PT	FT	PT	FT	PT	FT	PT	FT	PT
Police	118	24	109	20	108	20	113	21	115	21
Net Change in Positions from Prior Fiscal Year	-	-	-9*	-4*	-1	-	+5	+1	+2	-

FT – Full-Time

PT – Part-Time

*Covid-19 Financial Mitigation Plan



PUBLIC WORKS

City of Gardena

The Public Works Department maintains the safety and aesthetics of the city streets, facilities, parks, medians and equipment at the highest standards. The Department provides continual maintenance and improvement of the City's physical infrastructure and facilities and provides quality engineering service.

01 GOAL

Monitor and Update Public Works Fleet and Equipment to Reduce replacement cost for fleet improvement.

02 GOAL

Develop Geographical Information System for Efficient operations by streamlining processes.

03 GOAL

Update City Design Standards & Provisions insuring Infrastructure compliance for all buildings within the City jurisdiction



PROPOSED BUDGET PUBLIC WORKS

- **Operational Changes:**
 - None
- **Personnel Changes:**

Public Works Department	FY 2019-20 Adopted		FY 2020-21 Adopted		FY 2021-22 Adopted		FY 2022-23 Proposed		FY 2023-24 Proposed	
	FT	PT	FT	PT	FT	PT	FT	PT	FT	PT
Public Works	47	13	40	3	42	5	45	5	45	5
Net Change in Positions from Prior Fiscal Year	-	-	-7*	-10*	+2	+2	+3	-	-	-

FT – Full-Time

PT – Part-Time

*Covid-19 Financial Mitigation Plan



RECREATION HUMAN SERVICES

City of Gardena

The Recreation and Human Services Department is responsible for providing a broad array of recreation, social and community services to a diverse community of individuals, families, and organizations. The Department is advised by four Commissions appointed by the City Council: Recreation and Parks, Senior Citizens, Youth, and Human Services. The Department has two program divisions: the Recreation Division and the Human Services Division.

01 GOAL

To support and promote the quality of life and the local economy; and ensure public safety by providing a number and quality of safe, accessible, and affordable programs.

02 GOAL

Facilitate, volunteer, and provide recreational opportunities for individuals with disabilities that promote an optimal lifestyle.

03 GOAL

Provide a wide variety of events and community services which facilitate community unity, engagement, and cultural participation.



PROPOSED BUDGET

RECREATION & HUMAN SERVICES

- **Operational Changes:**

- Custodian division moved to Recreation in FY 2020-21
- Add Aquatics division in FY 2023-24

- **Personnel Changes:**

Recreation & Human Services Department	FY 2019-20 Adopted		FY 2020-21 Adopted		FY 2021-22 Adopted		FY 2022-23 Proposed		FY 2023-24 Proposed	
	FT	PT	FT	PT	FT	PT	FT	PT	FT	PT
Recreation & Human Services	33	60	27	36	28	37	30	59	33	73
Net Change in Positions from Prior Fiscal Year	-	-	-6*	-24*	+1	+1	+2	+22	+3	+14

FT – Full-Time

PT – Part-Time

*Covid-19 Financial Mitigation Plan



ENTERPRISE FUND PROPOSED BUDGET FISCAL YEAR 2022-2023 & 2023-2024

GTRANS



GTRANS

City of Gardena

Providing transit service to the City of Gardena and surrounding communities for over 82 years, GTrans provides safe and reliable transportation to the communities we serve. Providing nearly 3 million trips annually using a fleet of alternatively-fueled, zero-emission buses, the service area extends to various cities in the South Bay. In addition GTrans operates a paratransit service for seniors and persons with disabilities.

01 GOAL

Identify and implement new service opportunities that will provide improved mobility for GTrans customers, and promote efficiencies within the design and operation of the service.

02 GOAL

Develop and implement employee training programs to improve customer service, leadership and communication skill sets.

03 GOAL

Create infrastructure supporting Compressed Natural Gas fueling, charging of zero-emission battery electric buses and energy generation through installation of charging stations, solar panels and battery storage.



GTRANS – PROPOSED BUDGET SUMMARY

- \$31.2M Capital Improvement Program
 - \$9.1M in Fiscal Year 2022-23 and \$22.1M in Fiscal Year 2023-24
- **Personnel Changes:**

GTrans Department	FY 2019-20 Adopted		FY 2020-21 Adopted		FY 2021-22 Adopted		FY 2022-23 Proposed		FY 2023-24 Proposed	
	FT	PT	FT	PT	FT	PT	FT	PT	FT	PT
GTrans	119	39	105	33	107	33	125	35	127	36
Net Change in Positions from Prior Fiscal Year	-	-	-14*	-6*	+2	-	+18	+2	+2	+1

FT – Full-Time

PT – Part-Time

*Covid-19 Financial Mitigation Plan



PROPOSED BUDGET - GTRANS

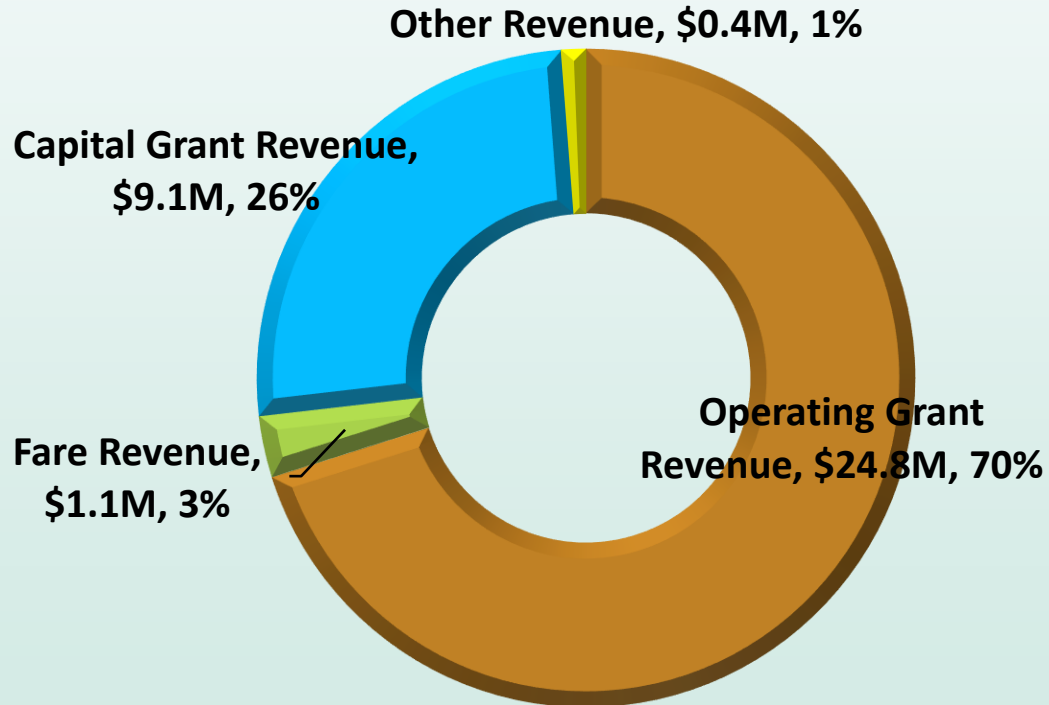
FISCAL YEAR 2022-2023

-30%
-\$15M

*Decrease compared to
FY 2021-22
Adopted

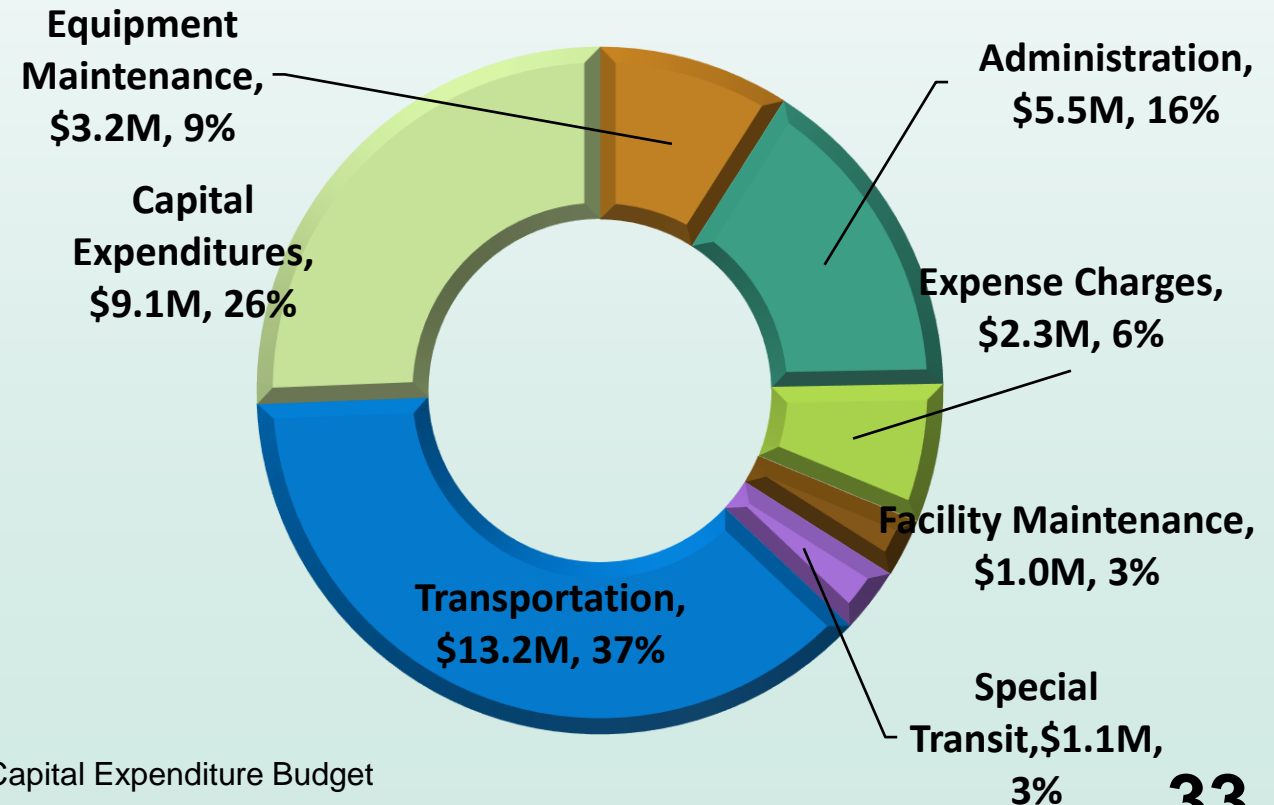
REVENUES

\$35,437,041



EXPENDITURES

\$35,437,041



*Decrease due to less Capital Expenditure Budget
vs prior fiscal year



PROPOSED BUDGET - GTRANS

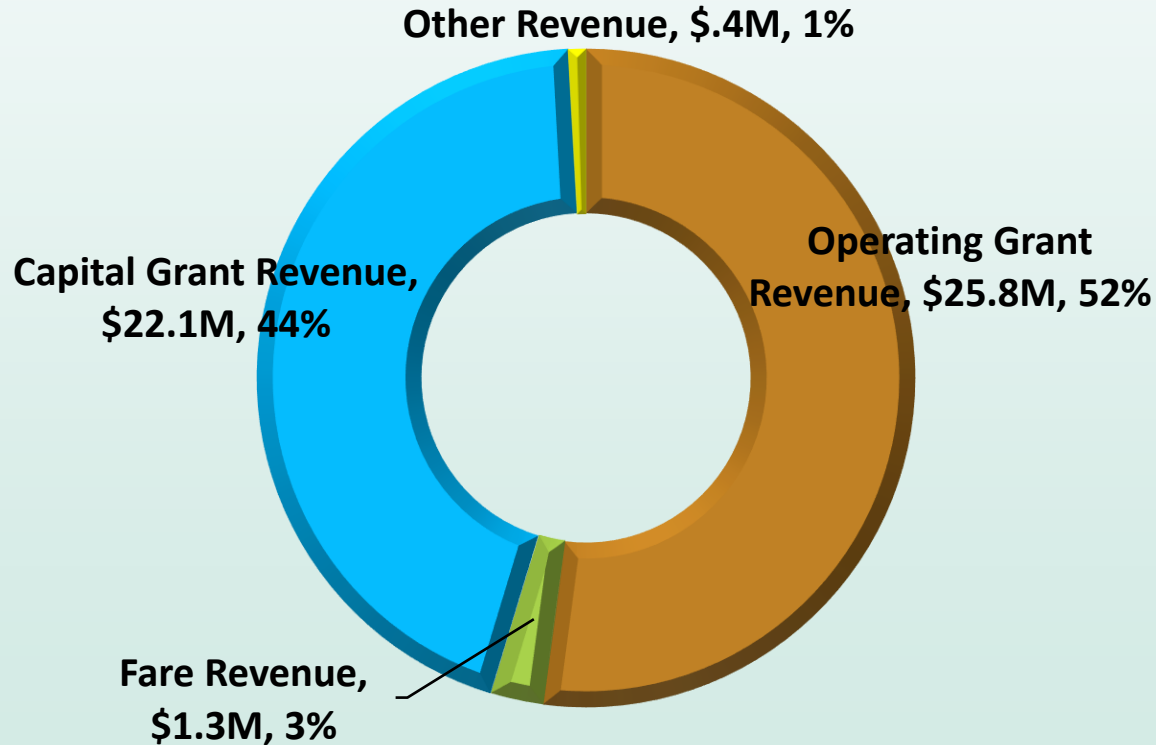
FISCAL YEAR 2023-2024

+40%
+\$14M

*Increase
compared to
FY 2022-23
Proposed

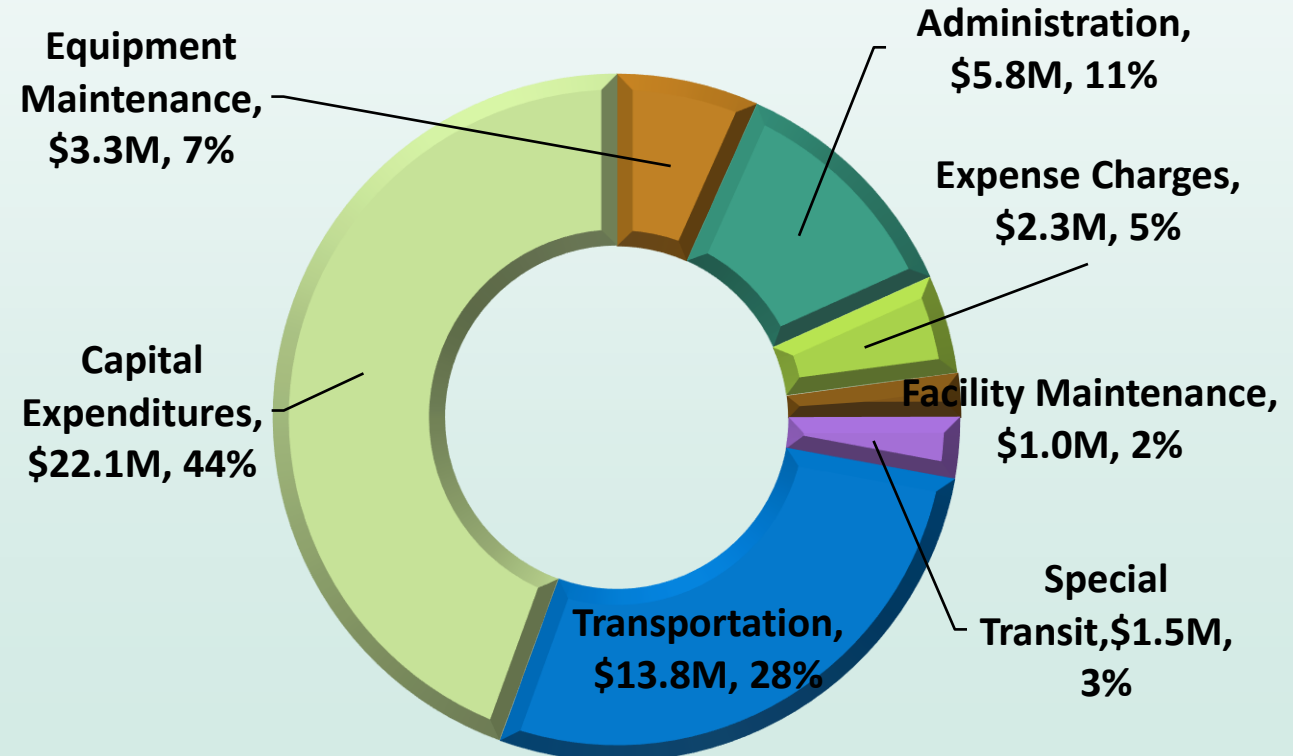
REVENUES

\$49,768,535



EXPENDITURES

\$49,768,535



*Increase is due to +13M in Capital Expenditures,
COLA and additional staff



PROPOSED BUDGET FISCAL YEAR 2022-2023 & 2023-2024 ALL FUNDS



PROPOSED BUDGET – ALL FUNDS

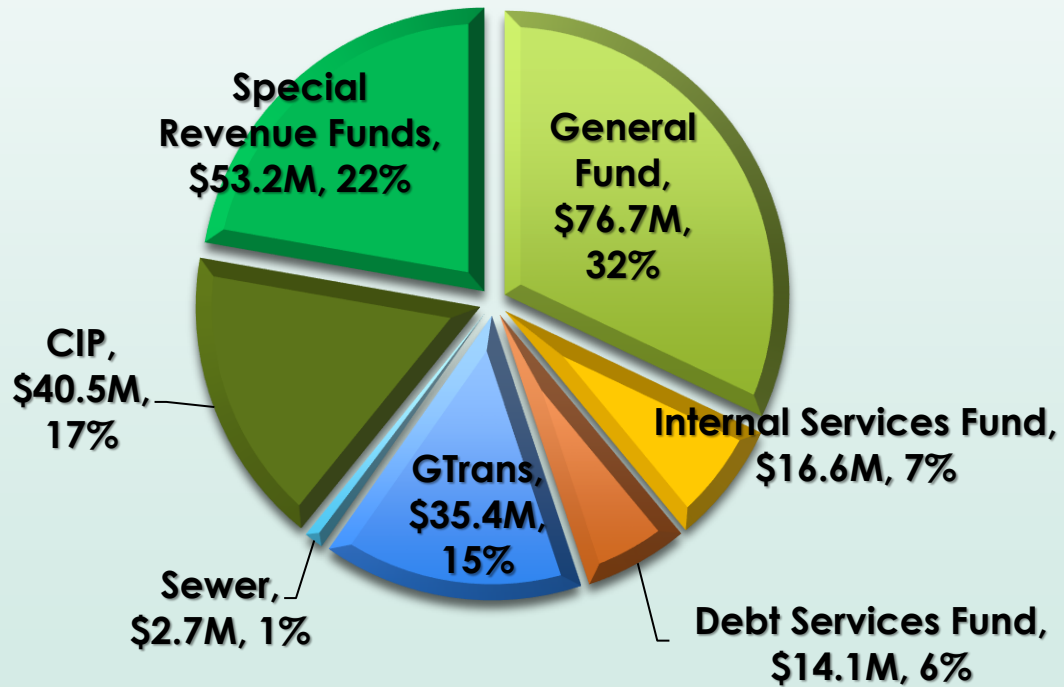
FISCAL YEAR 2022-2023

+21%
+\$42M

*Increase compared to FY 2021-22 Adopted

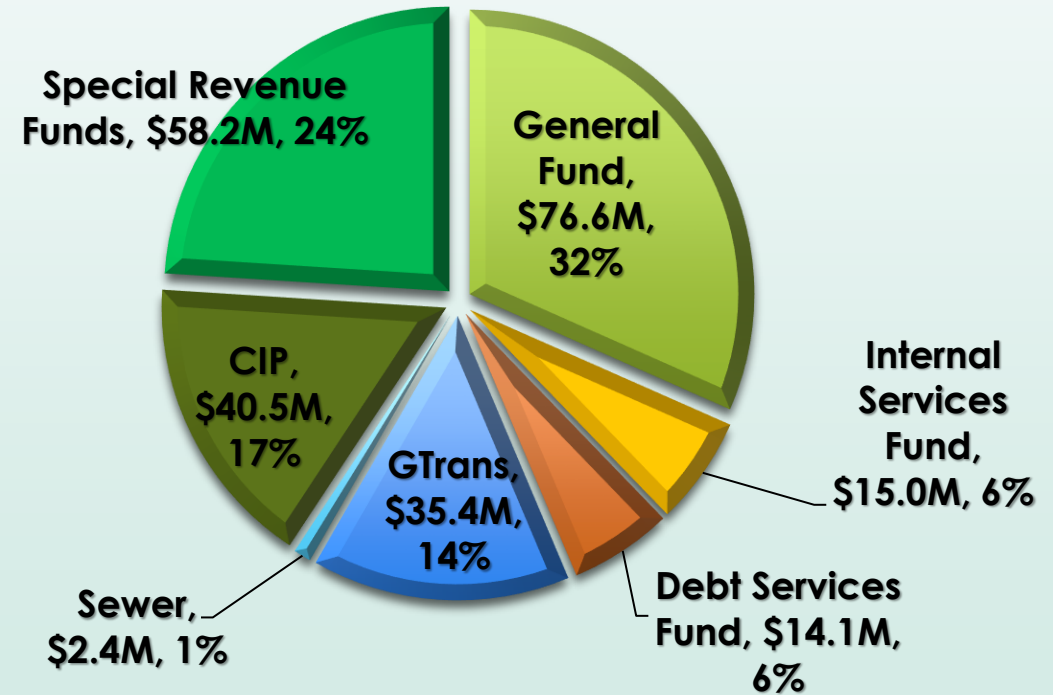
REVENUES

\$239,201,957



EXPENDITURES

\$242,157,173



*Increase of \$42M is due to bigger CIP budget, and increase budget across the board for all funds

**Delta of revenue and expenditures is due to timing of Special Revenue Funds



PROPOSED BUDGET – ALL FUNDS

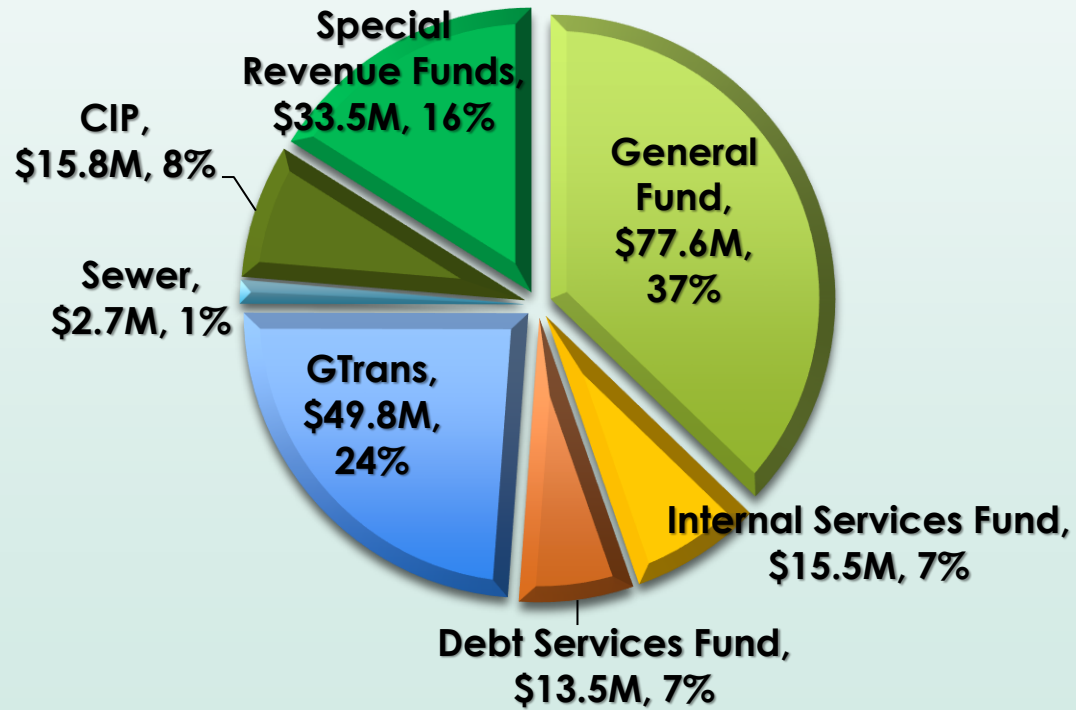
FISCAL YEAR 2023-2024

-14%
-\$34M

*Decrease compared to FY 2022-23 Proposed

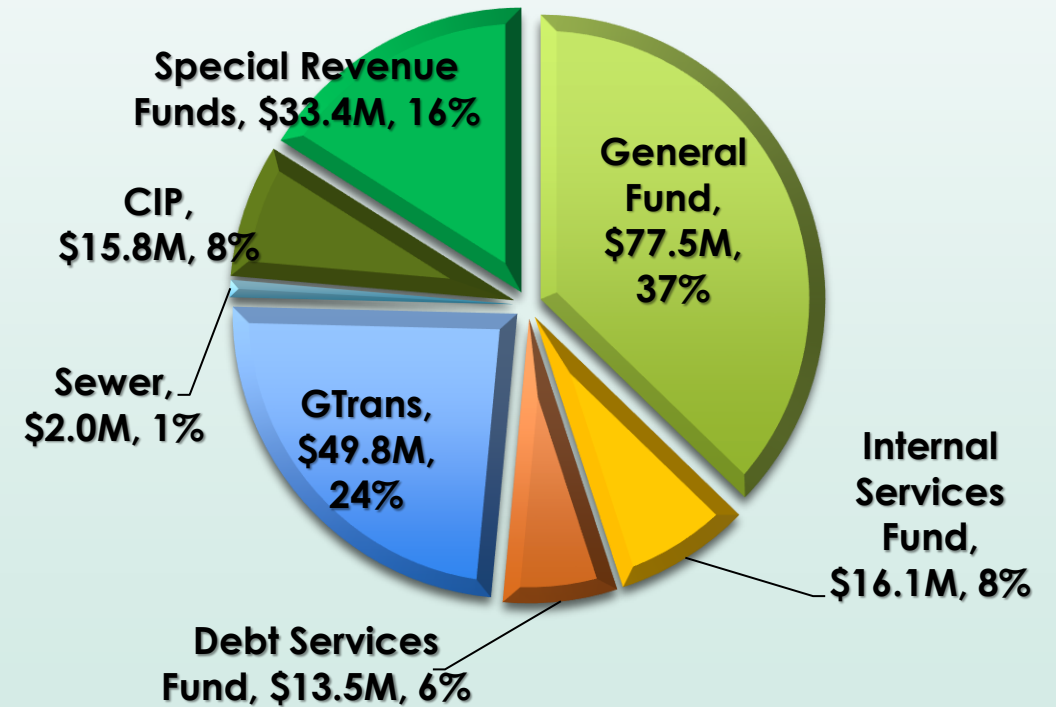
REVENUES

\$208,428,550



EXPENDITURES

\$208,117,649



*Decrease is mainly due to GTrans budget and \$25M less in CIP budget

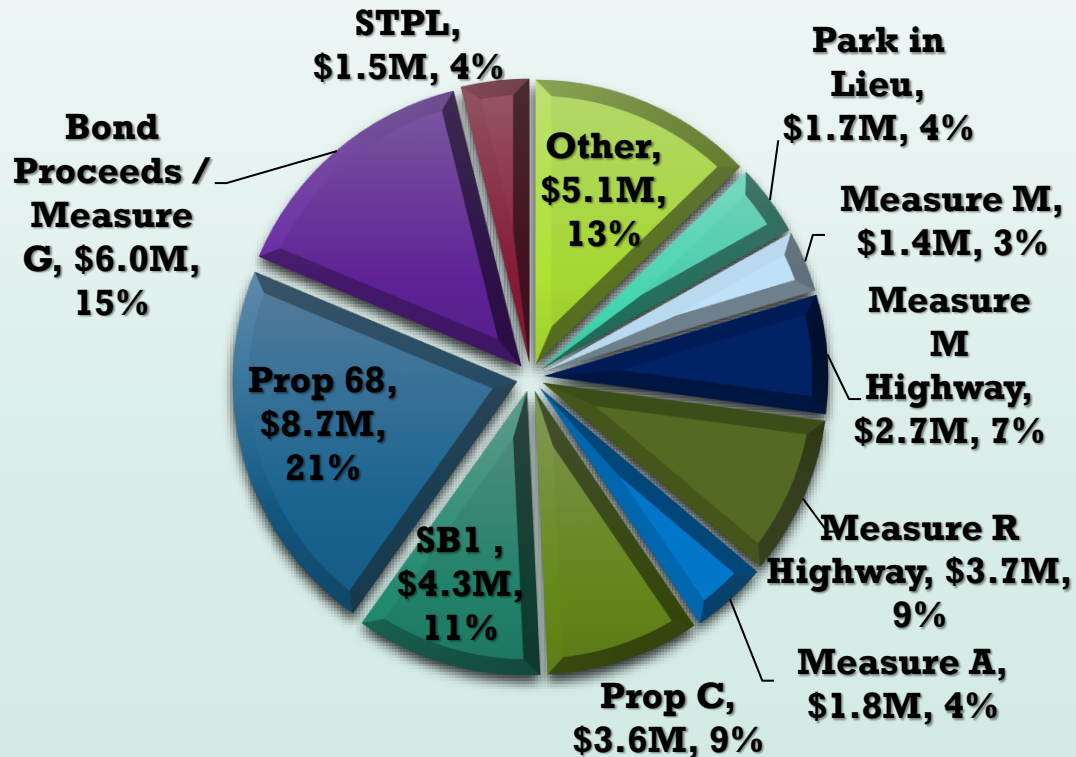


PROPOSED BUDGET – FY 2022-23 & 2023-24

CAPITAL IMPROVEMENT PROGRAM

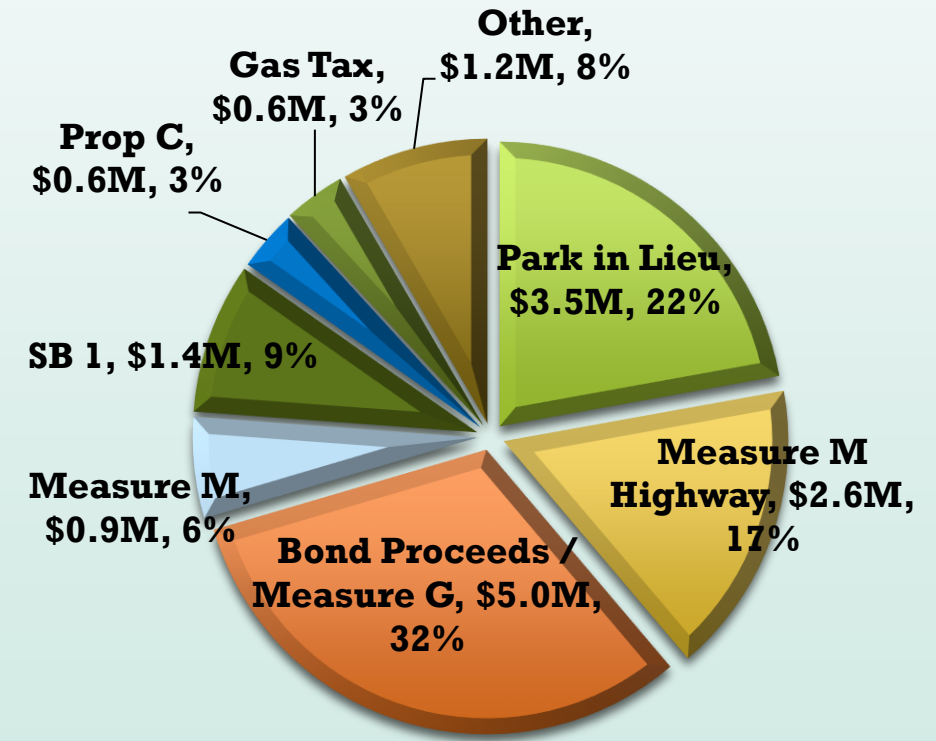
2022-2023

\$40,504,947



2023-2024

\$15,792,000





PROPOSED BUDGET FY 2022-23 & 2023-24

CIP PROJECT SUMMARY

Project Name/Category	Fund Sources	FY 2022-23	FY 2023-24
Road/Street Projects	Various	\$17.5M	\$6M
Pedestrian Safety, Lights & Signal Improvement Projects	Lighting District, Measure M, SB 821 (TDA), STPL and Measure R	\$1.5M	\$440K
Stormwater Projects	Measure W	\$510K	\$200K
Sewer Projects	Sewer Fund	\$750K	\$300K
Gardena Community Aquatics & Senior Center	Prop 68, Bond Proceeds / Measure G, and Federal Earmark	\$14.9M	
Rosecrans Community Center	Park in Lieu and Bond Proceeds / Measure G	\$1M	\$5M
Mas Fukai Park Improvements	Park in Lieu	\$1M	\$3.5M
Various Park Improvement Projects	Park in Lieu, Measure A, and Prop 68	\$2.5M	\$350K
Other Facility Improvement Projects	Deferred Maintenance and Park in Lieu	\$914K	
PROPOSED BUDGET TOTAL		\$40.5M	\$15.8M



FINANCIAL PROJECTION

FY 2021-2022 TO FY 2023-2024



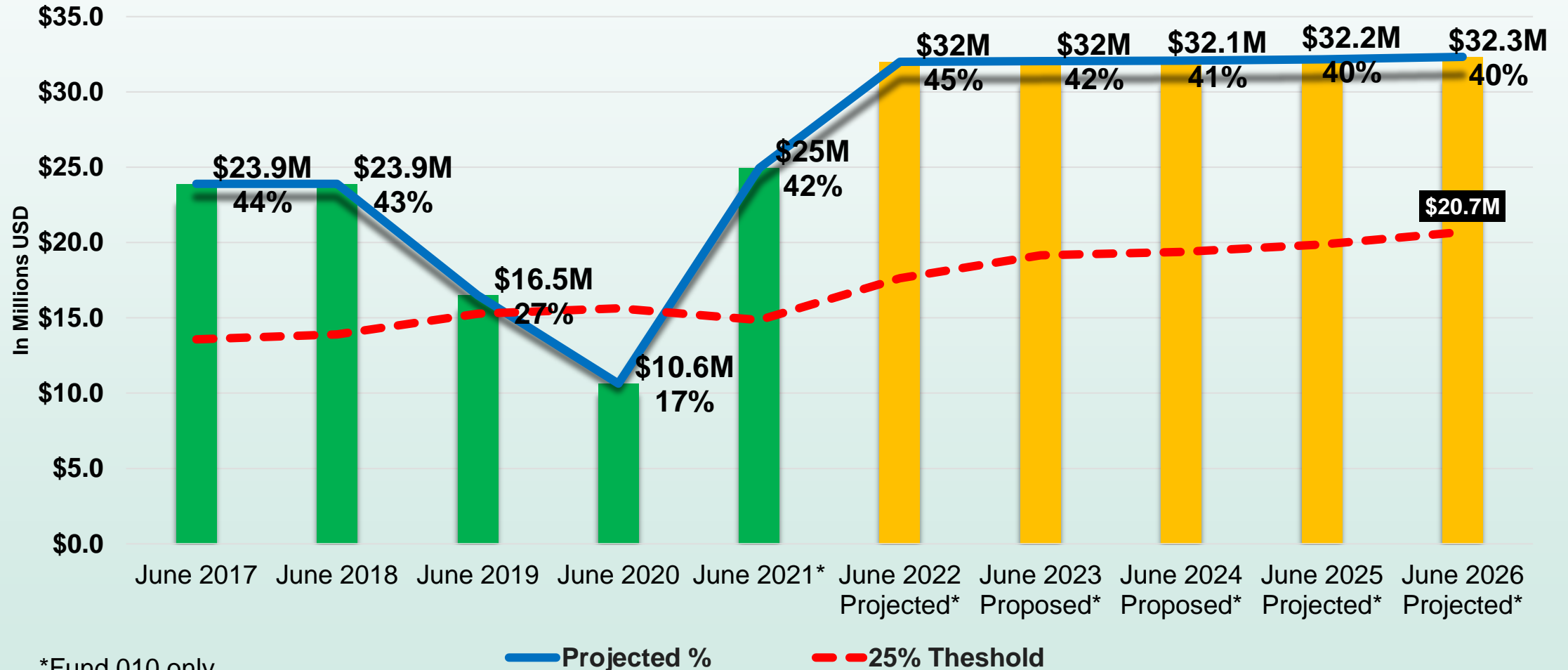
GENERAL FUND

3-YEAR FINANCIAL PROJECTION

General Fund Projection	Projected 2021-2022	Proposed 2022-2023	Proposed 2023-2024
Total Revenue	77,600,584	76,653,769	77,593,605
Total Expenditures	(70,551,358)	(76,616,761)	(77,554,469)
Budget Surplus / (Deficit)	7,049,226	37,008	39,136
GF Reserve Beginning Balance	24,956,204	32,005,430	32,042,438
GF Reserve Ending Balance	32,005,430	32,042,438	32,081,574
GF Reserve Balance % of Expenditures	45%	42%	41%



GENERAL FUND 10-YEAR RESERVE LEVEL



*Fund 010 only
Projection as of Mar 31, 2022

City Council Meeting
May 24, 2022



PROPOSED BUDGET FISCAL YEAR:

2022-2023 ————— 2023-2024

CITY OF GARDENA



PROPOSED BUDGET FISCAL YEAR:

2022-2023 ————— 2023-2024



CITY OF GARDENA



CITY OF GARDENA
PROPOSED BUDGET FISCAL YEAR 2022/2023 and 2023/2024
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CITY OF GARDENA
PROPOSED BUDGET FISCAL YEAR 2022/2023 and 2023/2024
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GOVERNMENT FINANCE OFFICERS ASSOCIATION

*Distinguished
Budget Presentation
Award*

PRESENTED TO

**City of Gardena
California**

For the Biennium Beginning

July 01, 2020

Christopher P. Morrill

Executive Director



**CITY MANAGER'S
BUDGET MESSAGE
PROPOSED BUDGET
FY 2022/2023 & 2023/2024**

HIGHER QUALITY OF LIFE

...ACHIEVED BY CONSISTENT & CONTINUOUS IMPROVEMENT



OUR MISSION

The elected leadership and employees of the City of Gardena individually and collectively are committed to maintaining an efficient and effective government that ensures the highest quality of life, a safe and attractive environment, and a sound economic future for the community.

OUR VISION

We envision Gardena as one of the most desired communities in which to live, do business, work, and play in the South Bay.

OUR DUTY

As public servants it is our duty and our desire to provide reliable service guided by our commitment to these Core Values.

ORGANIZATIONAL VALUES

- Fiscal Accountability & Sustainability
- Workforce Excellence
- Community Involvement

COMMUNITY VALUES

- Safe Community Environment
- Sustainable Economic Development
- Attractive & Livable Neighborhoods



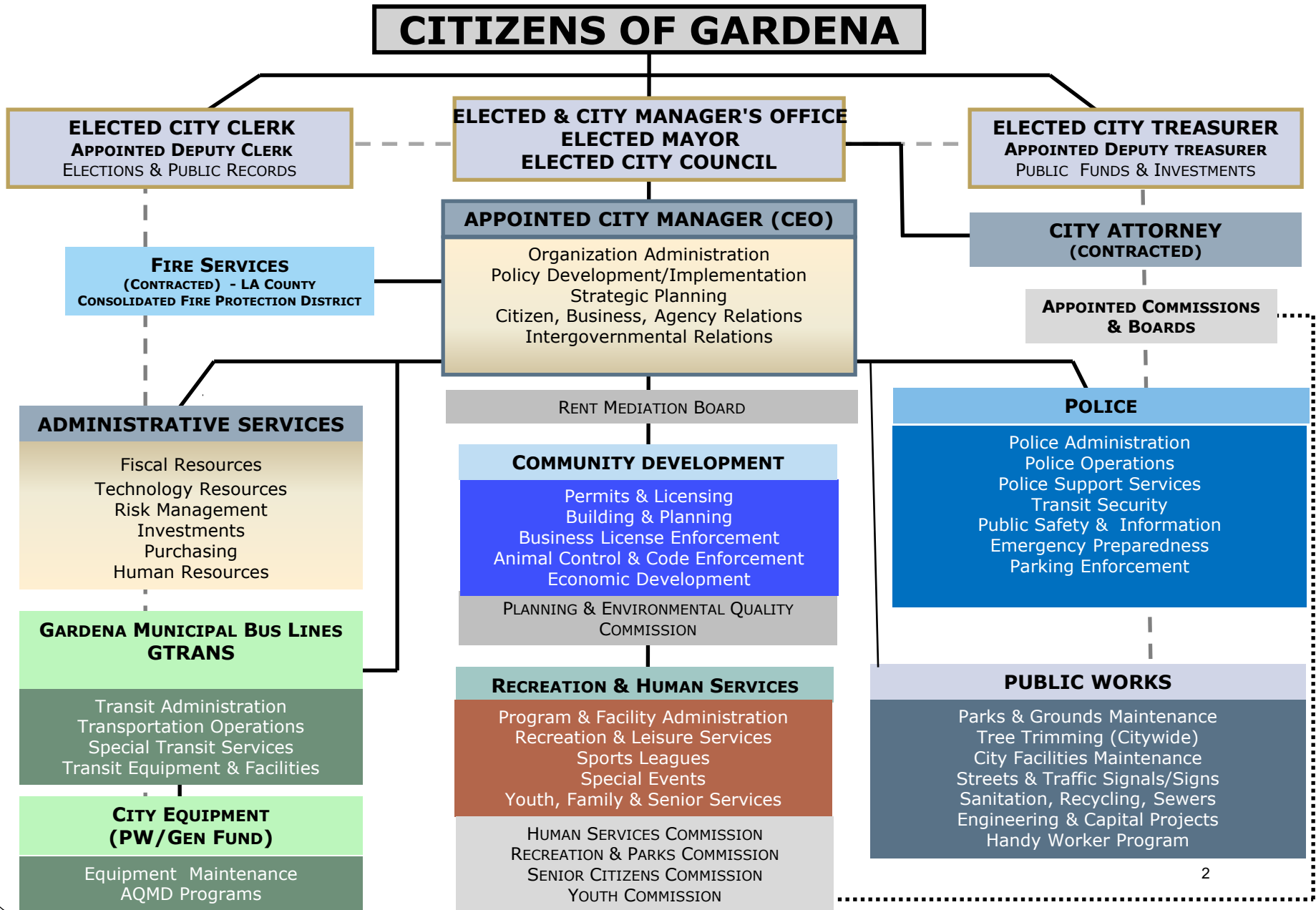
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GENERAL INFORMATION

CITY OF GARDENA ORGANIZATION CHART



CITY OFFICIALS

MAYOR AND CITY COUNCIL

Tasha Cerda, Mayor

Occupation: Insurance Agent
Elected: City Clerk – March 2009
Appointed: Councilmember – September 2009
To fill unexpired term due to resignation of Councilmember
Elected: Councilmember – March 2011
Elected: Councilmember – March 2013
Elected: Mayor – March 2017
Current Term Expires: June 2022

Rodney G. Tanaka, Mayor Pro Tem

Occupation: Retired Police Lieutenant/Licensed Pastor
Elected: Councilmember – March 2017
Current Term Expires: June 2022

Paulette Francis, Councilmember

Occupation: Teacher
Elected: Councilmember – March 2020
Current Term Expires: March 2024

Mark E. Henderson, Councilmember

Occupation: College Professor
Elected: Councilmember – March 2015
Elected: Councilmember – March 2020
Current Term Expires: March 2024

Art Kaskanian, Councilmember

Occupation: Business Owner/Realtor
Elected: Councilmember – March 2017
Current Term Expires: June 2022

CITY CLERK AND CITY TREASURER

Mina Semenza, City Clerk

Occupation: Real Estate
Elected: City Clerk – March 2013
Elected: City Clerk – March 2017
Current Term Expires: June 2022

J. Ingrid Tsukiyama, City Treasurer

Occupation: Retired
Elected: City Treasurer – March 2005
Elected: City Treasurer – March 2009
Elected: City Treasurer – March 2013
Elected: City Treasurer – March 2017
Current Term Expires: June 2022

APPOINTED OFFICIALS

Clint D. Osorio, City Manager

Appointed Acting City Manager in June 2019
Appointed City Manager in December 2019

Carmen Vasquez, City Attorney

Appointed as Contract City Attorney in January 2020

Peter L. Wallin, Deputy City Attorney

Appointed as Contract City Attorney in February 2009

Lisa Kranitz, Assistant City Attorney

Appointed as Contract City Attorney in February 2009

EXECUTIVE STAFF – (All Appointed)

Michael Saffell, Chief of Police

Ray Beeman, Administrative Services Director

Greg Tsujiuchi, Community Development Director

Ernie Crespo, Transportation Director

Stephany Santin, Recreation & Human Services Director

Allan Rigg, Public Works Director

Scott Hale, Los Angeles County Assistant Fire Chief

DIRECTORY
City of Gardena
1700 West 162nd Street
Gardena, CA 90247-3778
Telephone: (310) 217-9500 Fax: (310) 217-6119 Website: www.cityofgardena.org

ELECTED & ADMINISTRATIVE OFFICES

Mayor

Tasha Cerda (310) 217-9507

Mayor Pro Tem

Rodney G. Tanaka (310) 217-9507

Councilmembers

Paulette C. Francis (310) 217-9507

Mark E. Henderson (310) 217-9507

Art Kaskanian (310) 217-9507

City Clerk's / City Treasurer's Office

City Clerk

Mina Semenza (310) 217-9565

Deputy City Clerk

Becky Romero (310) 217-9566

City Treasurer

J. Ingrid Tsukiyama (310) 217-9664

Deputy City Treasurer

Danny Rodriguez (310) 217-9693

Administrative Office

City Manager

Clint D. Osorio (310) 217-9503

City Attorney

Carmen Vasquez (310) 217-9544

Director

Ray Beeman (310) 217-9502

POLICE DEPARTMENT

Chief of Police

Michael Saffell (310) 217-9601

RECREATION & HUMAN SERVICES

Director

Stephany Santin (310) 217-9537

GTRANS

Director

Ernie Crespo (310) 965-8888

COMMUNITY DEVELOPMENT

Director

Greg Tsujiuchi (310) 217-9526

PUBLIC WORKS

Director

Allan Rigg (310) 217-9570

LA County Fire Department

Assistant Fire Chief

Scott Hale (310) 329-3315

Gardena Station 162nd Street

Gardena Station 135th Street

For comments or questions regarding this publication, please contact Mary Simonell, Administrative Services Manager at (310) 217-9655

BUDGET GOAL

To develop and maintain a structurally balanced budget that maximizes all City resources necessary to build, sustain, and enhance the City's future.

BUDGET TEAM

CITY MANAGER – CLINT D. OSORIO

ADMINISTRATIVE SERVICES DIRECTOR – RAY BEEMAN

Budget Managers – Mary Simonell, Khoi Quach, Sarah Read, Yurina Kim, Danny Rodriguez

BUDGET COORDINATORS

Elected and City Manager's Offices - Alejandra Orozco, Becky Romero

Police – Captain Todd Fox, Captain Vince Osorio, Mayra Maciel

Public Works – Kevin Kwak, Kevin Thomas, Kim Nolan

Community Development – Greg Tsujiuchi, Amanda Acuna

Recreation & Human Services - Christina Theobald, Nikki Sweeney, Nicola Howard

Capital Improvement Projects - Jun De Castro

Transportation Department - Ernie Crespo, Dana Pynn, Jennifer Abro

BUDGET PROCESS

MISSION OF THE BUDGET PROCESS: To help decision makers make informed choices about the provision of services and capital assets and to promote stakeholder participation in the process. - Government Finance Officers Association (GFOA)

BUDGET GOAL: To develop and maintain a structurally balanced budget that maximizes City resources necessary to build, sustain and enhance the City's future.

Preparation and adoption of the fiscal year budget is guided by the following five organizational principles set by the City Council:

1. Fiscal Integrity and Long-Term Financial Stability
2. Quality Economic Development
3. Workforce Excellence
4. Continually Improving Quality of Life for Residents
5. Maintaining an Attractive, Vital Livable Community

BUDGET OBJECTIVES: These organizational principles translate into the following budget objectives:

1. Establishing budgetary and fiscal policies that address current needs and set the foundation for future decisions.
2. Adopting a structurally balanced budget with realistic annual revenue projections and expenditures below revenue projections.
3. Pursuing grant and other special funds to augment City services in specific program areas.
4. Building adequate reserve funds to meet the City's current and future obligations.
5. Creating public-private partnerships with mutual economic and service benefit.
6. Setting charges and users fees to recover City costs for providing services as much as possible but without overburdening citizens, businesses, and property owners.

7. Replacing or upgrading vehicles and other capital equipment based on comparative cost of required maintenance for safety and performance efficiency.
8. Implementing efficiencies in service delivery and departmental operations that improve customer service and the quality of life in the community.
9. Enhancing employee skills and compensation to attract and maintain the best qualified staff and highest level of public service possible.
10. Providing superior public safety including community-based policing to reduce crime.
11. Providing community service programs that meet a variety of interests and needs.
12. Improving the public image and physical appearance of the City with proper maintenance of public rights-of-way and code enforcement of private properties.

BUDGET ROLES AND RESPONSIBILITIES

Citizens, property owners and businesses are encouraged to share ideas and provide input concerning the community and budgetary programs. This can be accomplished by discussing issues with City's commissions and committees or directly with program managers. Citizen input received during public hearings or other correspondence is not only invited but needed to ensure that public needs are met.

Finance Committee, comprised of two councilmembers (appointed by the Mayor) and the City Treasurer, reviews the City's revenues and

BUDGET PROCESS

expenditures each quarter and the City Manager's proposed budget before submitting to the City Council for adoption.

City Council provides direction for the preparation of the budget through adoption of policies and ongoing input. Council is responsible for the review and adoption of the City budget.

City Manager is responsible for:

- ❖ providing staff direction for budget preparation
- ❖ considering departmental budget requests and requests for supplemental budget items
- ❖ reviewing projected revenues and expenditures with the Administrative Services Director
- ❖ formulating a comprehensive budget proposal for submission to the City Council
- ❖ presentation of a proposed budget
- ❖ overseeing budget administration throughout the fiscal year

Administrative Services Director is responsible for:

- ❖ evaluating and reporting the City's fiscal condition
- ❖ providing comprehensive revenue forecasts
- ❖ providing budget orientation and training to all departments
- ❖ monitoring budget throughout the year and providing updates to the City Manager and City Council

OVERVIEW OF CITY BUDGET PROCESS

The City's annual budget process commences in February with the distribution of the updated Budget Manual that details the City's general budgetary policy and the specific goals and objectives for the upcoming fiscal year. Departments are given specific instructions and timelines, the City's chart of accounts, a rate schedule for apportioned costs such as liability and health insurance, and budget forms and formats.

Each department head is required to select a responsible individual in the department to be the Budget Coordinator. Following the budget kickoff by

the City Manager and Director, all correspondence and meetings are conducted with the departments' Budget Coordinators and the Finance Budget Team.

In March, the Director provides the City Manager with the tentative General Fund Revenue Projections. These set the parameters for the development of a budget. In turn, the preliminary departmental budget worksheets are returned to the Fiscal Resources Division with instructions for modified expenditure requests based upon the available monies projected.

Target Budget Requests: It is the responsibility of each department to submit, as part of the budget request to the City Manager, a complete Statement of Justification. The statement must provide a formal and comprehensive explanation and justification of the proposed departmental budget program. This is important because the initial budget request submitted by each department is based on maintaining the current level of service. The **"Target Budget"** provides a point of origin for the detailed study and evaluation of each budget request by the City Manager compared to available revenue. The Target Budget has four basic components:

1. **Proposed Work Plan:** Department and program narratives, major accomplishments for fiscal year ending, major goals and objectives for the new fiscal year, workload/performance indicators and projected revenues/cost recovery from department programs.
2. **Proposed Staffing Plan:** Departmental organization chart, personnel worksheets (benefits calculations), personnel schedules, staffing levels, and personnel by program activity.
3. **Proposed Spending Plan:** Department line-item worksheets, expenditure request worksheets, justification statements (if required), computer repair and replacement fund summary and capital expenditures one-year request and justification statement.
4. **Revenue Projections:** Department revenues based on the fees collected as part of the department's operation. Emphasis

BUDGET PROCESS

is placed on maximizing cost recovery as appropriate and justification for new or increase in existing fees.

Supplemental Budget Requests: Separate from the Target Budgets, departments submit a “wish list” of additional personnel, new or replacement equipment, or funding for new or expanded programs. All Supplemental Budget Requests are reviewed jointly with priority given to funding requests that best meet the objectives for the fiscal year and improve services across departmental lines. Unfunded requests are set aside until additional funding can be identified. This process will be expanded over the next fiscal year with a goal of developing a multi-year budgeting plan for rebuilding staffing levels, equipment replacement and program expansion.

Capital Outlay Requests: Capital requests are submitted separately with priority given to the replacement of aging and outdated equipment. With the Fiscal Year 2001-2002 Budget, a “Computer and Technology Maintenance and Replacement” fund was instituted to protect the City’s investment in technology by ensuring funds to properly maintain and replace equipment when needed. This is funded through departmental contributions based on a usage formula.

City Managers Review: At the end of April, the City Manager reviews a draft budget summary presented by the Chief Fiscal Officer. Following the review and approval, the Proposed Budget, or City Manager’s Budget as it is sometimes called, is finalized and printed for distribution. Much of the focus of the annual budget process is on General Fund programs since this is the only funding area that is fully discretionary. Grant funded programs follow a similar process but are more specifically directed by the regulations of the particular funding source. The City’s adopted budget incorporates all City programs and specifically identifies the funding source for each.

Preliminary Budget: In May, a preliminary budget document is created, and the City Manager meets independently with each department head to review the department’s goals, objectives, programs and funding needs for the upcoming fiscal year. It is also the department head’s opportunity to ensure that all the needs of his/her department are understood and carefully considered in the allocation of funds.

Budget Hearing: A public workshop hearing is held approximately one month before the adoption of the City’s budget for the upcoming fiscal year. The City Manager presents to the Council the overall goals and objectives for the fiscal year, along with a review of significant factors affecting proposed revenues and expenditures.

Public comment is heard throughout the month and revisions may be made to the budget as directed by the City Council.

Adoption: City Council shall adopt the budget by Resolution at the conclusion of the budget hearings. The adoption of the budget must occur prior to July 1, which is the beginning of the new fiscal year.

Budget Control and Amendments: Since the budget is a planning document, throughout the fiscal year there may be a need for adjustments in the spending plan. As new revenues are identified, or unexpected expenditures arise, departments may need to re-prioritize the expenditure plan for their operations. If the modification can be made within the department’s approved appropriation, then the Department Head may make a written request for a budget transfer to reallocate funds as needed. The budget transfer request is sent to Fiscal Resources for review and approval. Accounting staff verifies that funds are available as requested, and the Chief Fiscal Officer approves the transfer. However, if the department is unable to make the needed adjustments within their department appropriation, additional approval is needed. The City Manager is authorized to transfer funds between departments up to ten thousand dollars. Amounts exceeding ten thousand dollars must have the approval of the City Council.

BUDGET CALENDAR - FISCAL YEAR 2022-2023 AND 2023-2024 BUDGET

February 14, 2022 – April 18, 2022	<p>During this period staff will be developing a plan of action for the FY 22/23 and 23/24 revenue projections, expenditure projections, and performance goals and narratives. Departments will be meeting with the City Manager to develop a proposed budget. The proposed budget will be presented for public review at the May 24th Council Meeting.</p> <p>Staff continues developing various budget scenarios and monitoring the effects of COVID-19 on the City's revenue streams.</p>
April 6-7, 2022	Finance to meet with individual departments to discuss budget and supplemental requests
April 4, 2022	Budget Requests Reviewed – analysis prepared for City Manager's review
April 18, 2022	City Manager Review - Preliminary FY 22/23 and FY 23/24 Budget Review
May 12, 2022	Finance Committee – overview of FY 22/23 and FY 23/24 preliminary budget
May 24, 2022 - June 28, 2022	Public Review period for Proposed FY 22/23 and FY 23/24 Budget
June 1, 2022	Community Budget Forum
June 28, 2022	Budget Hearing and Adoption of Budget FY 22/23 & FY 23/24 and Gann Resolution for Fiscal Year 22/23.
June 30, 2022	FY 22/23 and FY 23/24 budget to print / posted on website.

BUDGET DOCUMENT GUIDE

The “Adopted Budget” is the document that sets the expenditure policies for all monies received by the City. The budget is based on a “fiscal year” that begins each year on July 1 and ends twelve-months later on June 30. City staff develops a proposed budget under the direction of the City Manager. The “Proposed Budget” is presented at a Public Hearing with the City Council for consideration. The City Council makes whatever changes they deem appropriate and vote to adopt the budget for the next fiscal year.

The budget is designed to give the City Council a clear roadmap of the City’s expenditure needs and available resources so that the Council can make sound budgetary decisions. It is through the appropriation of funds that the Council sets the program and project priorities for the ensuing fiscal year. This year two consecutive one-year budgets were presented to the City Council for consideration. This proposed budget will cover fiscal years 2022-2023 and 2023-2024.

The budget document begins with the City Manager’s budget message, which provides an overview of the Fiscal Year Operating Budget by highlighting programs and major projects. Economic factors, changes in revenue, expenditures, and staffing levels are also addressed in the budget message. The budget document is divided into the following sections:

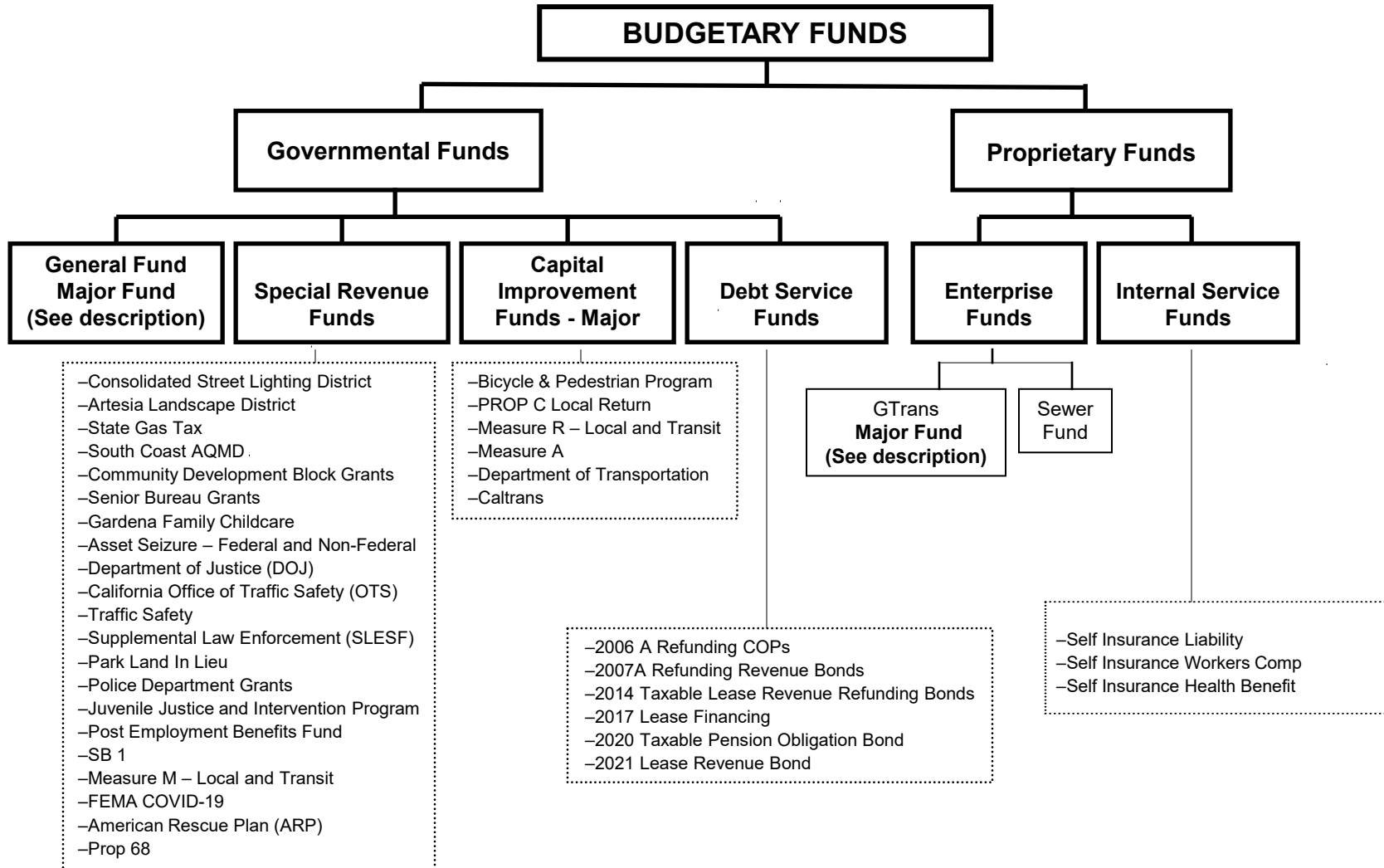
- Budget Message
- Introduction
- Budget Summaries
- Operating Budget – General Fund with corresponding Special Revenue Funds
- Operating Budget – Enterprise Funds
- Debt Service Funds
- Internal Service Funds
- Capital Improvement Program
- Appendix

The Budget Summaries section provides revenue and expenditure analysis. This section presents historical data for comparative purposes along with staffing levels.

The Operating Budgets section contains program description and public service goals. All Special Revenue Funds are grouped by operating department to provide a complete picture of department resources and functions.

The Appendix section contains the glossary of terms, abbreviations and acronyms, and index.

CITY OF GARDENA FUND STRUCTURE



A major fund is classified as any fund which is at least 10% of the total appropriation

FUND DESCRIPTIONS

GENERAL FUND (Major Fund)

The General Fund is the chief operating fund of the City and the only totally unrestricted fund that can be used for general operating expenses such as public safety, parks, recreation, engineering, planning and administration.

SPECIAL REVENUE FUNDS (Grants)

Currently the City receives additional funding from various sources to provide many services which otherwise would be impossible for the City to support. Special revenue funds are restricted to a specific purpose and for a certain time frame. Continued or new funding is based on the federal, state or county which is providing the resources. The City is always seeking new grants for the betterment of the citizens and community. Following is a description of the major grant funding that the City receives.

Artesia Landscaping District: To account for monies received for the maintenance of medians on Artesia Boulevard.

American Rescue Plan: Funding to address the devastating economic and health effects of the COVID-19 pandemic.

Asset Seizure: Monies seized from criminal activities and used solely for law enforcement purposes.

Community Development Block Grant (CDBG): The CDBG program works to ensure decent affordable housing, to provide services to the most vulnerable citizens in our communities, and to create jobs through the expansion and retention of businesses. This federal funding is received through the Department of Housing and Urban Development (HUD) and is an important tool for assisting local government in tackling the serious economic challenges facing the community.

Consolidated Street Lighting: To account for monies received for the maintenance and improvement of streetlights.

FEMA COVID-19: This Treasury Department allocation provides funding to local government to support the public health response and lay the foundation for a strong and equitable economic recovery.

Gardena Family Childcare: This grant provides low-cost childcare to low-moderate income families as well as offering early education and development classes. This program through Cal SAFE also helps pregnant and parenting students and their children. These programs are funded through the California Department of Education.

Juvenile Justice and Intervention Program: This program is to identify and improve areas of a youth's life that may be contributing to delinquent behavior.

Measure M: To account for monies received for the improvement of freeway traffic flow; expand the rail and rapid transit system; repave local streets, repair potholes, and synchronize signals; and to make public transportation more accessible, convenient, and affordable.

FUND DESCRIPTIONS

Measure R: To account for monies received for the improvement of local street traffic flow; repave local streets, repair potholes, and synchronize signals; and to make public transportation more accessible, convenient, and affordable.

Police Grants: The Department of Justice, the California Office of Traffic Safety, and the Supplemental Law Enforcement Program provide funding to improve public safety. Grant funding pays for additional officers, improved technology, DUI checkpoints, gang enforcement programs, and pedestrian safety programs. Funding from these grants helps to promote public safety and awareness.

Post-Employment Benefits Fund: This fund was set up to account for the City's Other Post-Employment Benefits it pays to retired employees.

Prop C: To account for monies received for the reduction of local street traffic congestion; improve air quality; repave local streets and repair potholes; and to make public transportation more accessible, convenient, and efficient.

Senate Bill 1 (SB 1): To account for monies received for the maintenance and rehabilitation and safety improvements on state highways, local streets and roads, and bridges and to improve the state's trade corridors, transit, and active transportation facilities.

Senior Bureau Grants: In 1965 the federal government passed the Older Americans Act to provide grant funding for programs which benefit seniors. This includes nutrition programs in the community and for those who are homebound; programs for low-income minority elders; health promotion and disease prevention activities; in-home services for frail elders, and those services which protect the rights of older persons such as the long-term care ombudsman program.

South Coast AQMD Fund: To account for monies received from motor vehicle tax and expended on programs to reduce air pollution which are necessary to implement the California Clean Air Act of 1988.

State Gas Tax: To account for monies received and expended from the state and county gas tax allocation.

Traffic Safety: To account for monies received under Section 1463 of the Penal Code and expended on traffic safety.

CAPITAL IMPROVEMENT FUNDS

Are used to account for financial resources used for capital improvement projects.

DEBT SERVICE FUNDS

Are used to account for the accumulation of resources and payment of all general long-term debt obligations of the City.

FUND DESCRIPTIONS

PROPRIETARY FUNDS

A proprietary fund accounts for business type activities of the City that receive a significant portion of funding through user charges with the intent to fully recover the cost of service. The Enterprise and Internal Services Funds are proprietary type funds.

Enterprise Funds:

GTrans (Major Fund) accounts for user charges, fees, federal, state and county grants and all operating costs associated with the operation of the City's bus lines. Although the GTrans is a separately operating enterprise fund, it is still operationally a department of the City.

Sewer Fund accounts for fees charged to users of the City's sewer system. The fee is based upon the amount of domestic water used. The revenue is used to replace, rehabilitate, maintain, and improve the City's sewer system.

Internal Service Funds:

The Internal Service Funds account for financing of goods or services provided by one City department to other departments of the City on a cost-reimbursement basis and consist of the following funds:

Self-Insurance Liability Fund

Self-Insurance Workers' Compensation Fund

Self-Insurance Health Benefit Fund

FIDUCIARY FUNDS

Account for assets held by the City in a trustee capacity. Fiduciary funds are normally **not budgeted** because typically the trust agreement or law already provides adequate control over the trust fund resources.

ACCOUNTING PRINCIPLES AND POLICIES

FUND ACCOUNTING

The accounts of the City are organized on the basis of funds and account groups, each of which is considered a separate accounting entity. The operations of each fund are accounted for with a separate set of self-balancing accounts that comprise its assets, liabilities, fund equity, revenues, and expenditures as appropriate. Government resources are allocated to, and accounted for, in individual funds based upon the purposes for which they are to be spent and the means by which spending activities are controlled. The financial section in this budget is grouped by generic fund types and broad fund categories as follows:

Governmental Funds

General Fund
Special Revenue Funds
Capital Improvement Funds
Debt Service Funds

Proprietary Funds

Enterprise Funds
Internal Service Funds

BASIS OF ACCOUNTING AND BUDGETING

The City's **Governmental Fund Types** (General, Special Revenue, Debt Service and Capital Projects Funds) are accounted for and budgeted using the modified accrual basis of accounting. Revenues are recognized when they become measurable and available as net current assets. Revenue considered susceptible to accrual includes property taxes, sales taxes, interest and motor vehicle license fees. Expenditures are generally recognized under the modified accrual basis of accounting when the related fund liability is incurred. An exception to the general rule is compensated absences not payable within one year, and interest and principal on long-term debt which are recorded when due.

Proprietary Fund Types are accounted for on an "income determination" or "cost of services" measurement focus. Accordingly, all assets and all liabilities are included on the balance sheets, and the reported fund equity (total reported assets less total reported liabilities) provides an indication of the economic net worth of the funds. The operating statements for the City's Proprietary Fund Types report increases (revenues) and decreases (expenses) in total economic net

worth. All Proprietary Fund Types are accounted for and budgeted using the accrual basis of accounting. Revenues are recognized when earned, and expenses are recognized when incurred.

FINANCIAL POLICIES

The following financial policies represent the long-standing principles and traditions which guide the City in its fiscal decisions.

FINANCE COMMITTEE

The City's Finance Committee is comprised of two councilmembers, (appointed by the Mayor) and the City Treasurer. The Committee meets quarterly with the City Manager to review and make recommendations on the City's budget, debt, and other financial actions.

AUDITING AND FINANCIAL REPORTING

- California state statute requires an annual audit of the books of account, financial records and transactions of all administrative departments of the City by Independent Certified Public Accountants.
- The City will produce annual financial reports in accordance with Generally Accepted Accounting Principles (GAAP) as outlined in Governmental Accounting, Auditing and Financial Reporting (GAAFR).

REVENUE POLICY

- The City will try to maintain a diversified and stable revenue system to shelter it from short run fluctuations in any one-revenue source.

ACCOUNTING PRINCIPLES AND POLICIES

- The City will follow an aggressive policy of collecting revenues, augmented in Fiscal Year 2002 by the implementation of the City's new cashing system.
- The City will establish all user charges and fees at a level closely related to the full cost (operating, direct, indirect and capital) of providing the service. The City will continue to review fees/charges periodically.

INVESTMENT OF IDLE FUNDS

- The safeguarding of all public monies shall be of the highest priority. Public money shall not be invested or managed in any manner, which would jeopardize the safety of the principal pursuant to California Government Code Section 53635.
- The City's investment policy is reviewed and approved annually by the City Council.
- Direct responsibility for managing the City's investment portfolio rests with the City Treasurer.
- All investments are made in accordance with the following criteria, stated in order of priority: safety, liquidity and yield.

PURCHASING POLICY

- The City's departments will purchase the best value obtainable, securing the maximum benefit for each tax dollar expended, while giving all qualified vendors an equal opportunity to do business with the City.
- All purchases \$30,000 - \$50,000 require written quotes and must be ratified by the City Council.
- All purchases with a total cost over \$50,000 must be procured by a formal bid and can only be authorized and awarded by the City Council.
- Whenever possible, local vendors shall be included as sources for all purchases.

RISK MANAGEMENT POLICY

- The City is self-insured against each general liability claim for the first \$750,000 and each workers' compensation claim for the first \$500,000 and \$750,000 for each GTrans claim against the City. The City carries insurance in excess of these amounts.
- The City's role in managing its risk management program is to be proactive, in nature, which will be accomplished through careful monitoring of losses, working closely with the third-party administrator and designing and implementing programs to minimize risk and reduce losses.

FIXED ASSET POLICY

- To safeguard the investment in fixed assets.
- To use the fixed asset system as a management tool for replacement of recurring items to avoid duplication and inefficient use of fixed assets.
- To comply with state laws and regulations.
- To provide information for preparation of financial statements in accordance with GAAP with emphasis placed on completion of GASB 34 requirements.
- When disposing of fixed assets, every effort should be made to recover some of the original cost by selling and or trading in the fixed asset.

CAPITAL IMPROVEMENT POLICY

- The City will develop a multi-year plan for capital improvements, update it annually and make all capital improvements in accordance with this plan.
- Immediate capital replacement needs and smaller capital projects are funded on a pay-as-you-go basis through a budget transfer.

ACCOUNTING PRINCIPLES AND POLICIES

- Capital improvements involve the outlay of substantial funds; therefore, the City prioritizes the use of non-general fund monies to support these expenditures.

DEBT POLICY

- To provide for proper planning of capital expenditures, financing requirements and guidelines for issuance of various debt instruments.
- To hold borrowing costs at a minimum and maintain ratios within established standards.
- To secure favorable ratings and competitive lower interest rates on all types of borrowing instruments, thereby providing a savings to all taxpayers.

BORROWING INSTRUMENTS

- Tax and Revenue Anticipation Notes to be issued no more than once a year. Maximum maturity of notes will be twelve months from date of issue. Notes will be rated by Moody's Investor Service, Standard and Poor's Ratings Group or Fitch Investors Service, L.P.
- Certificates of Participation (COPS) can be used as a financial alternative for acquiring assets.
- Revenue Bonds – City Council will evaluate all requests.
- Mello-Roos financing – City Council will evaluate all requests.

BUDGET – GENERAL POLICY

- City staff will present to the City Council a structurally balanced budget proposal that does not rely on “one-time” revenues. Annual recurring expenditures will be funded with annual recurring revenues.

- The City Council will, by June 30 of each year, adopt a structurally balanced operating and capital improvement spending plan for the ensuing fiscal year, where operating revenues are equal to, or exceed, operating expenditures.
- The City will align and amend as appropriate its operating and capital spending plan with its strategic action plan priorities and economic development plan.
- City staff will complete and present a quarterly Budget and Economic Condition Analysis to the Finance Committee. Recommended budget adjustments will be submitted to the City Council for consideration and approval.
- The City will establish and maintain a General Fund Reserve equal to at least twenty five percent (25%) of its annual General Fund operating budget. The amount will be revised annually and such funds will be expended only with the approval of the City Council.

BUDGET – REVENUE

- Revenue projections will be based on multiple sources of information including, but not limited to, historical trends, federal, state and regional economic forecasts, service levels, changes in legislation and mandates and other statistical resources generally available.
- The City will develop and incorporate into each spending plan revenue and expenditure projections for five (5) additional years into the future and amend the projection annually as part of the budget review.
- When projecting revenues, the City will take into consideration the diversity, volatility and stability of its revenue stream and will as much as possible base its core operating cost on historically stable revenue sources.
- The City will stabilize its revenue base by forecasting its annual operating expenditures on diverse revenue sources and limiting revenue growth projections in each revenue category.

ACCOUNTING PRINCIPLES AND POLICIES

- Revenues received in excess of the budgeted projections will be used for one-time expenditures or set aside as reserve.

BUDGET – EXPENDITURES

- Expenditures will be budgeted realistically for each expenditure category and can be adjusted internally as may become necessary but will not exceed appropriation limits.
- Contingency funds will be included in the annual budget to provide funding for unanticipated operating cost increases, one-time purchasing opportunities and one-time emergency expenditures to repair equipment and facilities. Unexpended funds will carry-over to the next fiscal year.
- In considering reductions in service levels, program cuts, or staffing reductions, the city will first assess options to improve operational efficiencies and develop additional revenues to cover the cost to continue the existing level of public service with existing Budget Policies.

- Limiting Cost with Fees for Service: Certain services are used selectively by a limited number of participants and, therefore, are not mandated City services. These services are provided based on individual interest and are provided only as funding is available. To fund these programs without limiting basic services necessary for the general public, the City will perform a cost analysis to identify the city's fully burdened cost for providing those services and, to the extent reasonable, set the fee based on full cost recovery. Such fees shall be updated frequently to ensure that the fees are reflective of actual city costs for the delivery of services.
- Unexpended funds within a fiscal year will be held in reserve or appropriated for one-time expenditures.

BUDGET – CAPITAL IMPROVEMENT

- Capital improvements will be financed primarily through special revenue funds, user fees, service charges, and developer agreements when benefits can be specifically attributed to users of the facilities.
- The City will analyze the impact of capital improvements to ensure that operational and maintenance costs are balanced with on-going revenue to support facility operations.

COMMUNITY PROFILE – 2022

Gardena, California is a full-service city located just 13 miles south of metropolitan Los Angeles in the South Bay area of Los Angeles County. Gardena is strategically located near the intersections of the Harbor (110), San Diego (405), and Gardena (91) Freeways and just south of the Anderson (105) Freeway.

Date of Incorporation	September 11, 1930
General Law City	1955
Form of Government	Council-Manager Form
County	Los Angeles, Second Supervisorial District
State Representatives	62 nd & 66 th Assembly Districts 35 th Senatorial District
U. S. Representative	43 rd U.S. Congressional District
Area	5.9 Square Miles
Population	60,344
Dwellings	21,373
Police Protection	87 sworn personnel and 27 marked units, including 2 canine units.
Fire Protection	City Fire Department services were transferred to the Consolidated Fire Protection District of Los Angeles County and became a contract service in October 2000.
Recreation and Parks	6 parks (37.36 acres) including 2 with skate parks, 1 community center, 1 municipal pool, 1 parkette, and 2 gymnasiums.
GTrans	66 coaches and 8 demand response vehicles for elderly and disabled passengers.





CITY of GARDENA



Not To Scale

LEGEND:



① City Hall Administration Offices and Campus

② Police Headquarters

③ Fire Department Headquarters

④ Fire Station 2

⑤ Public Works Building and Maintenance Yard

⑥ Kiyoto "Ken" Nakaoka Community Center

⑦ Ernest J. Primm Memorial Pool and James Rush Gymnasium

⑧ Municipal Transportation Facility (OLD)

⑨ Gardena Transit Administration, Operations, & Maintenance Facility (NEW)



Ⓐ Sister-City Parkette

Ⓑ Vincent Bell Memorial Park

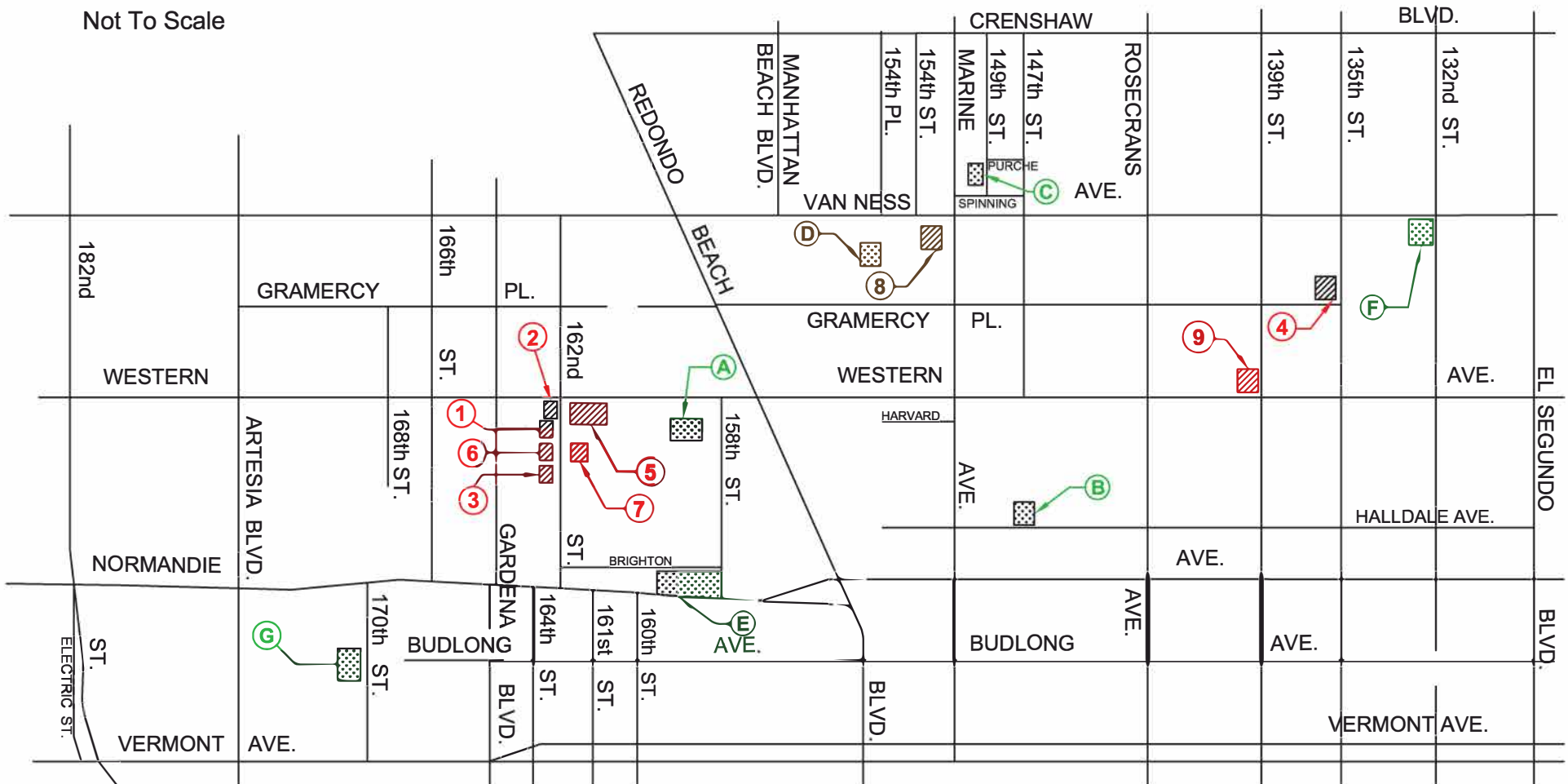
Ⓒ Edward L. Thornburg Park

Ⓓ George H. Freeman Memorial Park

Ⓔ Mas Fukai Park

Ⓕ Paul A. Rowley Memorial Park

Ⓖ Arthur Lee Johnson Memorial Park



CITY FACILITIES AND PROPERTIES

① City Hall Administrative Offices and Campus 1700 West 162nd Street

The Administrative Offices have approximately 25,975 square feet of building space, which includes City Council Chambers, a Council Chambers Conference Room, 32 administrative offices and 9 bathrooms. The buildings were built in 1962; and in fiscal year 2001-2002, the Administrative Office building was renovated with automatic sliding glass doors to comply with the Americans with Disabilities Act. The campus lawn in front of City Hall was dedicated on June 12, 1982, as the **Lucille Randolph Plaza**, in honor of the City Clerk who served the City for twenty-three years.

② Police Headquarters 1718 West 162nd Street

The Police Headquarters has approximately 63,475 square feet of site area and approximately 23,690 square feet of building space that includes a one-story brick masonry police headquarters structure (Class C construction). Built in 1963, the needs of the department have far outgrown the building's capacity. Separate modular units have been constructed in the parking lot, and on an adjacent property to serve as annex offices.

③ Fire Department Headquarters 1650 West 162nd Street

The Fire Department Headquarters has approximately 27,925 square feet of site area and approximately 17,975 square feet of building space, which includes a two-story brick masonry fire station building (Class C construction). The building was built in 1963 and is currently leased to the Los Angeles County Fire District. The City contracts with the Los Angeles County Fire District for the provision of fire services.

④ Fire Station 2 2030 West 135th Street

Fire Station 2 has approximately 26,140 square feet of site area and approximately 5,949 square feet of building space, which includes a pre-cast concrete fire station structure. The fire station structure was built in 1957 and includes an apparatus garage, offices, kitchen, dining area,

chief's quarters, dormitory and training tower. The fire station structure is currently leased to the Los Angeles County Fire District. The City contracts with the Los Angeles County Fire District for the provision of fire services.

⑤ Public Works Building and Maintenance Yard 1717 West 162nd Street

The Public Works Building has approximately 11,825 square feet of building space, which includes 10 administrative offices and 5 bathrooms. The buildings were built in 1968 and 1990; and in fiscal year 2003-2004, the building was renovated with automatic sliding glass doors to comply with the Americans with Disabilities Act. In addition, a City yard is adjacent to the Public Works Building to create a total land area of 1.850 acres.

⑥ Kiyoto "Ken" Nakaoka Community Center 1670 West 162nd Street

The Community Center has approximately 17,137 square feet of building space, which includes 6 classrooms, 4 offices, a kitchen and an auditorium that can accommodate up to 280 people. The building was built in 1975 and dedicated June 7, 1975. On December 13, 1989, an expansion was dedicated in honor of the first Japanese-American to be elected (1966) to a City Council position in the United States, and the first elected Mayor of the City. During fiscal year 2001-2002, the Community Center was renovated with automatic sliding glass doors to comply with the Americans with Disabilities Act.

Located in the Nakaoka Community Center, the **Lucien "Lou" Lauzon Memorial Auditorium** was dedicated August 22, 1981, in honor of his active community support, which included serving as a member of the Citizens Advisory Committee and the Beautification Committee.

⑦ Ernest J. Primm Memorial Pool and James Rush Gymnasium 1651 West 162nd Street

The pool and gymnasium have approximately 62,650 square feet of site area and approximately 19,623 square feet of building space, which includes a one-story masonry gymnasium (Class C construction). The building was built in 1979. The Human Services Division offices are

CITY FACILITIES AND PROPERTIES

located in this building. The roof of the gymnasium was renovated in fiscal year 2002-2003, and the administrative office of the gymnasium was renovated with automatic sliding glass doors in fiscal year 2004-2005 to comply with the Americans with Disabilities Act.

The pool was dedicated as the **Ernest J. Primm Memorial Pool** on April 22, 1962, in honor of the founder of the card clubs in Gardena. On June 30, 1979, the gymnasium was rededicated as the **James Rush Memorial Gymnasium** in honor of the former Councilmember and Mayor of Gardena (1942 – 1956). Mr. Rush was also involved in the planning of the civic center grounds.

8 The Army National Guard 2100 West 154th Street

A portion of the former Municipal Transportation Facility, 1.72 acres, was sold for development of residential units in 2015. The remaining portion of the property is leased to the State of California for use as a National Guard post.

9 Gardena Transit Administration, Operations, and Maintenance Facility 13999 South Western Avenue

The new transit facility opened in May 2009, on a 9.1-acre site that accommodates a fleet of 100 buses, plus paratransit and support vehicles. The facility is designed as a “Green Building,” emphasizing energy efficiency and environmental sensitivity and includes solar panels for power generation, bus simulators for operator training, and current technology in bus maintenance equipment.

The administration and operations building is approximately 24,000 square feet in area. The maintenance building is approximately 45,000 square feet with a 4,000 square foot bus-wash structure and 2,800 square foot fuel island. A photovoltaic panel shade structure provides covered parking.

CITY PARK FACILITIES

(A) Sister-City Parkette - 160th Street/Harvard Boulevard

Sister-City Parkette was renamed in August 2013 from Harvard Parkette. The Parkette was dedicated in November 1958 as a neighborhood play area, is 0.19 acre and includes a slide and jungle gym, swings, and lunch benches.

(B) Vincent Bell Memorial Park - 14708 South Halldale Avenue

This 1.87-acre park was dedicated on May 26, 1972, in honor of a City Councilman who died in office shortly after his election in 1970. The facility is equipped with a recreation room, baseball diamond, outdoor basketball court, handball court, two tiny tot play areas, two picnic shelters, and a police office.

(C) Edward L. Thornburg Park - 2320 West 149th Street

The Edward L. Thornburg 2.39-acre park was named for the developer who donated the land in 1953. The facility is equipped with a recreation room, baseball diamond, two outdoor basketball courts, handball court, tiny tot play area, picnic shelter, martial arts room, and horseshoe pit.

(D) George H. Freeman Memorial Park - 2100 West 154th Place

This 2.71-acre park was dedicated on April 11, 1957, in honor of George Freeman, who served as the first City Recreation Director. The park is equipped with two recreation rooms, a baseball diamond, basketball court, handball court, tennis court, tiny tot play area, picnic shelter, and police office.

(E) Mas Fukai Park - 15800 South Brighton Avenue

4.53 acres were purchased from the County and dedicated as a City park in 1960. In June 2000, the Gardena City Council rededicated Recreation Park as Mas Fukai Park. Masani “Mas” Fukai was elected to Council in 1974 and served until his retirement in 1998. Mas, as his friends and associates call him, also served for five years as the Chief Deputy to then Los Angeles County Supervisor Kenneth Hahn. The facility is equipped with three recreation rooms, three baseball diamonds, two basketball courts, a handball court, tiny tot play area, picnic shelter, and kitchen.

CITY FACILITIES AND PROPERTIES

(F) Paul A. Rowley Memorial Park - 13220 South Van Ness Avenue




This 18.17-acre park was dedicated July 21, 1962, in honor of the first City Administrative Officer, 1959 – 1962. Mr. Rowley died of a heart attack in June 1962, while addressing a public affair at the park. The park was originally named Van Ness Park, when it opened in 1959. The expansion of the park facilities, which included the addition of a gymnasium, was dedicated February 12, 1990. The facility is equipped with two recreation rooms, a gymnasium, four baseball diamonds, three outdoor basketball courts (one full and two half), a skate park opened in March 2012, four tennis courts, two tiny tot play areas, three picnic shelters, a kitchen, auditorium, weight room, teen center, and police office.

(G) Arthur Lee Johnson Memorial Park - 1200 West 170th Street

This 7.5-acre park, originally dedicated July 9, 1977, as South Park, was rededicated on January 13, 2007 as Arthur Lee Johnson Memorial Park. Arthur Johnson marched with Dr. Martin Luther King, Jr. in the civil rights movement, founded the Gardena Dr. Martin Luther King, Jr. Cultural Committee, and served as its president for twenty years. In 1973, his efforts made Gardena the first city west of the Mississippi to honor Dr. King's birthday with an annual commemorative celebration. Mr. Johnson served as a Planning and Environmental Quality Commissioner for twelve years. His many years of community service earned him the Gardena Black History Month Trailblazer Award and a place on the City's Wall of Fame.

The Arthur Lee Johnson Memorial Park is equipped with a recreation room, two basketball courts, a skate park opened in June 2012, four tennis courts, a tiny tot play area, picnic shelter, soccer field, police shooting range, and entrance to the Gardena Willows Wetland.

CITY OF GARDENA HISTORIC TIMELINE

<p>1930 Incorporation of City of Gardena on September 11, 1930 with a population of approximately 3,000. Annexation of Western City on November 12, 1930.</p>	<p>2001 Eldorado Parking COP liquidated through agreement with Hustler for a net principal gain of \$980,000.</p>	<p>2013 February Standard & Poor's raised the City's credit rating to A.</p>
<p>1936 First legal card club license in the State of California to Gardena.</p>	<p>2002 Eliminated the General Fund deficit a year ahead of schedule with a positive \$1,048,182 balance on June 30, 2002.</p> <p>Voters approved an increase in the Transient Occupancy Tax from 7% to 11% in November.</p>	<p>Sold parking structure located at 1041 Redondo Beach Blvd. Entered into sales agreement for 1.72 acres at 15350 Van Ness Avenue. September 2014, Standard & Poor's raised the City's credit rating to A+</p>
<p>1940 City bus service began on January 15, 1940.</p>	<p>2005 Celebrated 75th anniversary.</p>	<p>2014 Closed escrow on 15350 Van Ness Ave (former GTrans facility). Adopted 2016-2021 Five Year Strategic Plan. Council approved updated comprehensive fee resolution.</p>
<p>1953 Gardena Municipal Bus Lines moved to new location on Van Ness Avenue in November.</p>	<p>2006 City Council approved settlement agreement with Sumitomo Trust and Union Bank that would restructure the \$26 million debt on the failed First Time Homebuyer Program and the December - City made a \$2.6 million payment to Sumitomo Trust and Union Bank on the long-term \$26 million debt thereby ending the debt service obligation on both failed programs.</p>	<p>2015 Adopted 2016-2021 Five Year Strategic Plan. Council approved updated comprehensive fee resolution. Civic Center</p>
<p>1954 City adopted its official seal and slogan "Freeway City" on October 26, 1954.</p> 	<p>2007 Received investment grade credit ratings: Standard & Poor's BBB rating Moody's Baa3 rating</p> <p>Refinanced the South Bay Regional Communications Center debt at an improved interest rate.</p> <p>Adopted 5 Year Plan 2007 - 2012.</p>	<p>2016 Mitchell Lansdell City Manager retires, Ed Medrano appointed Acting City Manager. Refinancing of the 2006 C Bond Debt. Reassessment of the Sewer Fees to ensure sewer upkeep.</p>
<p>1955 Gardena was designated as a General Law City by action of the State Legislature.</p>	<p>November 20, 2007 City Manager Mitchell G. Lansdell was awarded the Municipal Leader of the Year for his 10-year effort to lead the City out of financial crisis.</p>	<p>2017 Ed Medrano appointed as City Manager.</p>
<p>1964 Adopted City flag.</p> 	<p>2009 May 2009 Gardena Municipal Bus Lines moved to new facility. Dec 2009 Standard & Poor's raised the City's rating to A-.</p>	<p>2019 Clint D. Osorio appointed as City Manager</p>
<p>1980 Received the All America City Award.</p> 	<p>2010 June 30, 2010 General Fund reserves = \$8,649,750 or 20%. September 11, 2010, City will celebrate its 80th Anniversary with a population of approximately 61,927.</p>	<p>2020 March 2020 Novel Coronavirus Pandemic - COVID 19, Stay-at-Home orders issued and City Hall closed to the public.</p> <p>December 2020 Pension Obligation Bond issued to refinance City's UAL effecting savings of \$50 million. City revises Strategic Plan to address effects of COVID</p>
<p>1982 Maintenance facility added at the Gardena Municipal Bus Lines.</p>	<p>2011 April 1, 2011 UUT rate collection at the maximum of 5%. Senior exemption eligibility reduced to age 60.</p> <p>May 10, 2011 Council adopted new fee resolution with an effective date of July 11, 2011.</p>	<p>2021 Issuance and sale of Lease Revenue Bond to finance a portion of the cost of the Aquatic & Senior Center, the renovation of the Chase Bank building to a community center, and various park improvements.</p> <p>City is awarded an \$8.5 million Prop 68 competitive grant as well as an \$1.4 million appropriation for the Aquatic & Senior Center</p>
<p>1994 Council action limited the number of card clubs from six to two.</p>	<p>2012 Created "Super-Departments" as a transitional phase for operational efficiency and cost containment during succession planning.</p>	
<p>1995 Annexation of El Camino Village.</p>		
<p>1996 Employee committees formed to review revenues, operational efficiencies, and customer service. A fourth committee compiled the information for council consideration.</p> <p>To reduce expenditures, Council implemented hiring freeze and a 2% decrease in appropriated expenditures for last six months of the fiscal year.</p>		
<p>1998 Council committed to a plan to eliminate the projected \$5 million General Fund deficit with a \$1 million set aside for the next five years.</p>		
<p>2000 The newest card club in the State, the Hustler, opened in June 2000.</p> <p>Ending General Fund balance June 30, 2000 = (\$2,719,574).</p>		

CITY OF GARDENA COMMISSIONS, CORPORATIONS, AGENCIES, BOARDS, ADVISORY GROUPS, COMMITTEES AND ASSOCIATIONS

The Mayor and City Council appoint members to Commissions, Corporations, Agencies, Boards, etc. to advise the City on important programs and policy decisions. Public participation, therefore, is a vital component of the City's governing system. In addition, there are other important Committee and Association members who meet on a regular basis but are not appointed by the Mayor and City Council. All of the meetings are open to the public.

APPOINTED COMMISSIONS

PLANNING AND ENVIRONMENTAL QUALITY COMMISSION

Composed of five members, this Commission was created in compliance with the State Government Code as an advisory agency to the City Council on all matters of land use and the environment. Its responsibilities are to investigate and report on the design and improvement of adopted subdivisions, and to submit reports and recommendations to the City Council on matters relating to zoning, land use, environment, the City's General Plan, and other related matters.

RECREATION AND PARKS COMMISSION

This Commission is composed of five members who advise the Council on matters relating to recreation and parks within the City. The Commission considers, advises, and/or recommends to the City Council the needs of the City pertaining to the acquisition, development, and use of facilities, buildings and structures for recreational and park purposes; promotes public interest in recreation and parks programs and regulations; and consults and confers with public officials and agencies, citizens, civic, educational, professional, and other organizations.

SENIOR CITIZENS COMMISSION

This Commission is composed of five members, appointed by the City Council, who advise them on all matters relating to the needs and concerns of the City's older adult population. The Commission coordinates its activities with those of the Affiliated Committee on Aging.

HUMAN SERVICES COMMISSION

The Human Services Commission is composed of five members who are responsible for the development and utilization of available resources to meet needs within the City. The Mayor and each Councilmember appoint one member. The Commission advises the Council on all matters relating

to social conditions within the City, assesses and reports to the Council the social needs of the citizenry, and advises the Human Services Division regarding policy and program direction for meeting such needs and making appropriate recommendations to the Council.

GARDENA YOUTH COMMISSION

The Youth Commission is composed of five members appointed by the City Council and five "at-large" members approved by the Commission and ratified by the City Council. The Commission identifies and evaluates youth and community issues and projects and makes recommendations to the City Council to resolve such issues. Commission members also work as volunteers with community groups, organizations, and Recreation and Human Services programs

APPOINTED CORPORATIONS / AGENCIES / BOARDS

CITY OF GARDENA FINANCING AGENCY

The Agency was created in July 1991 as a Joint Powers Authority between the City of Gardena and the Gardena Parking Authority. The Agency provides for financing of the acquisition, construction and improvement of Public Capital Improvements, for working capital requirements, and for liability or other insurance programs of the City and the Parking Authority.

BOARD OF APPEALS

This board is comprised of the members of the Planning and Environmental Quality Commission, with the building official as an ex-officio member. The Board is governed by the same procedures as the Planning and Environmental Quality Commission. The Board determines the suitability of alternate materials and methods of construction and provides reasonable interpretations of the provisions of the Uniform Building Code. The Board also determines whether a building constitutes a menace to public safety, and whether repairs, alterations, or demolition are necessary to abate the menace to public safety.

RENT MEDIATION BOARD

This fifteen-member Board is composed of five landlords, five tenants, and five members-at-large, all of whom are appointed by the City Council to assist citizens in mediating rental increase-related disputes.

HOUSING APPEALS BOARD

This Board, consisting of members of the Planning and Environmental Quality Commission, is authorized by the City Council to hear all appeals relating to violations of housing standards and is governed by the provisions of the Uniform Housing Code. The Community Development Director serves as secretary to the Housing Appeals Board.

APPOINTED ADVISORY GROUPS

GARDENA ECONOMIC BUSINESS ADVISORY COUNCIL (GEBAC)

Established in May 2016, its mission is to promote economic opportunities by establishing and preserving a business and job friendly environment to attract and retain businesses, industry and commerce, that will enhance Gardena's economic viability, financial stability, and improve the overall quality of life of its residents. GEBAC has the following goals:

- Promote new business development opportunities;
- Strengthen the relationship between the City and the business community;
- Support retention and attraction of diversified tax base for the long-term viability of the City;
- Provide support on issues affecting the economy and quality of life in the City
- Review City business practices and programs to ensure the City of Gardena remains business friendly

The Council consists of eleven members from the business community within the City of Gardena. GEBAC meets the 3rd Wednesday of odd months at 4:00 p.m.

GARDENA BEAUTIFICATION COMMITTEE

This Committee has a maximum of nine voting members who study and make recommendations to the City Council relating to the beautification and livability of all areas of the City of Gardena. The Chairperson is a member of the City Council. Five of the members are appointed by the City Council, and the remaining three at-large members are nominated by the Committee Chair and ratified by City Council. Committee projects include elimination of graffiti, beautification of streets and parkways; tree planting, and other related activities.

NON-APPOINTED COMMITTEES / ASSOCIATIONS:

GARDENA VALLEY AFFILIATED COMMITTEE ON AGING

The Gardena Valley Affiliated Committee on Aging is composed of a five-member board of directors and members at large, who assist and coordinate the work of community organizations, government agencies, and private entities concerned with the betterment of living conditions for the aging. They coordinate events, activities and programs into a unified

approach that will meet the economic and social needs of the elderly, and those in need of assistance throughout the greater Gardena community. The committee advises the Gardena Senior's Bureau and the Gardena Senior Citizen's Commission on all matters relating to the needs and concerns of the City's older adult population.

GARDENA SISTER CITY ASSOCIATION

The Gardena Sister City Association, comprised of community volunteers, has been active in promoting international friendship for over five decades. The program's goal is to learn more about the community, enjoy the hospitality, and build personal contacts with other cultures. This is done through adult and youth exchange programs that encourage person-to-person visitations in each city. **Ichikawa, Chiba, Japan** has been an official Sister City to Gardena since 1962 and **Huatabampo, Sonora, Mexico**, since 1973. Gardena has also maintained an unofficial mutual friendship with Rosarito, Baja, California, Mexico for many years.

GARDENA POLICE FOUNDATION

The Gardena Police Foundation is a partnership of citizens, businesses, and philanthropic organizations whose mission is to provide additional resources to improve public safety. Incorporated in September 2006 as an independent 501(c)3 non-profit organization, the Foundation relies solely on donations and fundraising efforts. The Board of Directors actively raises money from the community and awards grants directly to the police department in response to the department's request for program, training and equipment needs not included in the City's budget.

GARDENA TRAFFIC COMMITTEE

The City Traffic Committee is composed of City staff persons, including the Chief of Police; Recreation, Human Services, Parks, & Facilities Director; and the Transportation Director. This Committee advises the City concerning traffic-related matters including, but not limited to, parking, stop signs, signals, and congestion, etc.

GARDENA RECREATION AND SPORTS ADVISORY BOARD

The Gardena Sports Advisory Board is made up of volunteers from the Community, who raise funds to assist the Recreation Department Sports Programs in providing participation scholarships to the low-income, as approved by Human Services, providing equipment and making repairs to City sports facilities as funds allow. They work to recognize the coaches that take the time to work with the youth of Gardena and serve as a review board to rule on second stage protests and coaching discipline matters.



PROPOSED BUDGET SUMMARIES FY 2022/2023 & 2023/2024

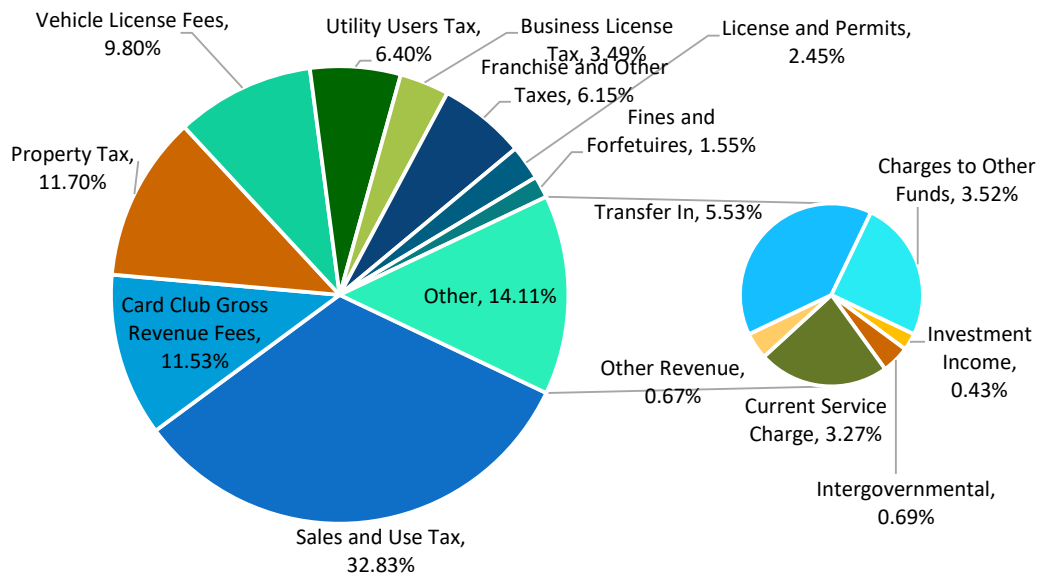


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GENERAL FUND REVENUE and EXPENDITURES 2022/2023

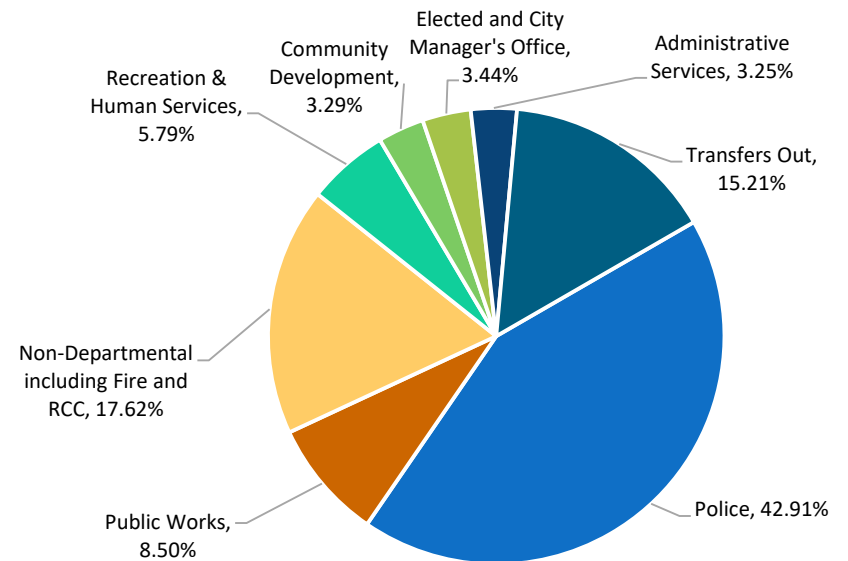
WHERE THE MONEY COMES FROM...

Revenue Sources	General Fund	% of Total
Sales and Use Tax	\$ 25,165,183	32.83%
Card Club Gross Revenue Fees	\$ 8,840,000	11.53%
Property Tax	\$ 8,965,773	11.70%
Vehicle License Fees	\$ 7,509,721	9.80%
Utility Users Tax	\$ 4,902,643	6.40%
Business License Tax	\$ 2,677,500	3.49%
Franchise and Other Taxes	\$ 4,714,425	6.15%
License and Permits	\$ 1,875,038	2.45%
Fines and Forfeitures	\$ 1,185,368	1.55%
Investment Income	\$ 330,000	0.43%
Intergovernmental	\$ 532,500	0.69%
Current Service Charge	\$ 2,506,467	3.27%
Other Revenue	\$ 512,036	0.67%
Transfer In	\$ 4,239,000	5.53%
Charges to Other Funds	\$ 2,698,115	3.52%
TOTAL REVENUES	\$ 76,653,769	100.00%



WHERE THE MONEY GOES...

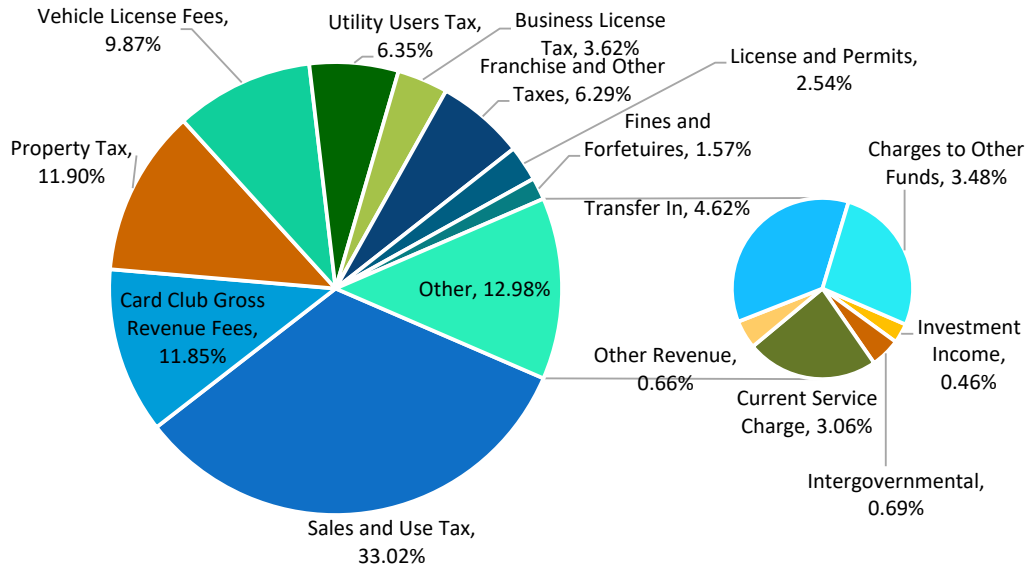
Department Expenditures	General Fund	% of Total
Police	\$ 32,878,497	42.91%
Public Works	6,509,050	8.50%
Non-Departmental including Fire and RCC	13,501,048	17.62%
Recreation & Human Services	4,436,453	5.79%
Community Development	2,519,383	3.29%
Elected and City Manager's Offices	2,631,900	3.44%
Administrative Services	2,490,589	3.25%
Transfers Out	11,649,841	15.21%
TOTAL EXPENDITURES	\$ 76,616,761	100.00%



GENERAL FUND REVENUE and EXPENDITURES 2023/2024

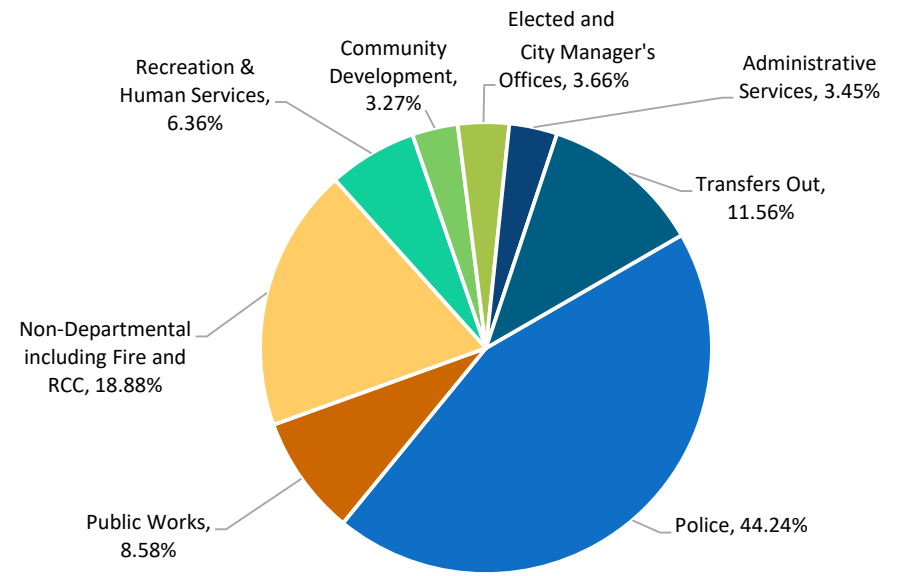
WHERE THE MONEY COMES FROM...

Revenue Sources	General Fund	% of Total
Sales and Use Tax	\$ 25,623,576	33.02%
Card Club Gross Revenue Fees	\$ 9,193,600	11.85%
Property Tax	\$ 9,234,746	11.90%
Vehicle License Fees	\$ 7,659,916	9.87%
Utility Users Tax	\$ 4,929,272	6.35%
Business License Tax	\$ 2,811,375	3.62%
Franchise and Other Taxes	\$ 4,879,429	6.29%
License and Permits	\$ 1,968,790	2.54%
Fines and Forfeitures	\$ 1,220,929	1.57%
Investment Income	\$ 355,000	0.46%
Intergovernmental	\$ 537,500	0.69%
Current Service Charge	\$ 2,377,600	3.06%
Other Revenue	\$ 512,036	0.66%
Transfer In	\$ 3,587,448	4.62%
Charges to Other Funds	\$ 2,702,388	3.48%
TOTAL REVENUES	\$ 77,593,605	100.00%



WHERE THE MONEY GOES...

Department Expenditures	General Fund	% of Total
Police	\$ 34,309,188	44.24%
Public Works	6,656,917	8.58%
Non-Departmental including Fire and RCC	14,640,514	18.88%
Recreation & Human Services	4,929,066	6.36%
Community Development	2,537,141	3.27%
Elected and City Manager's Offices	2,841,708	3.66%
Administrative Services	2,672,264	3.45%
Transfers Out	8,967,671	11.56%
TOTAL EXPENDITURES	\$ 77,554,469	100.00%

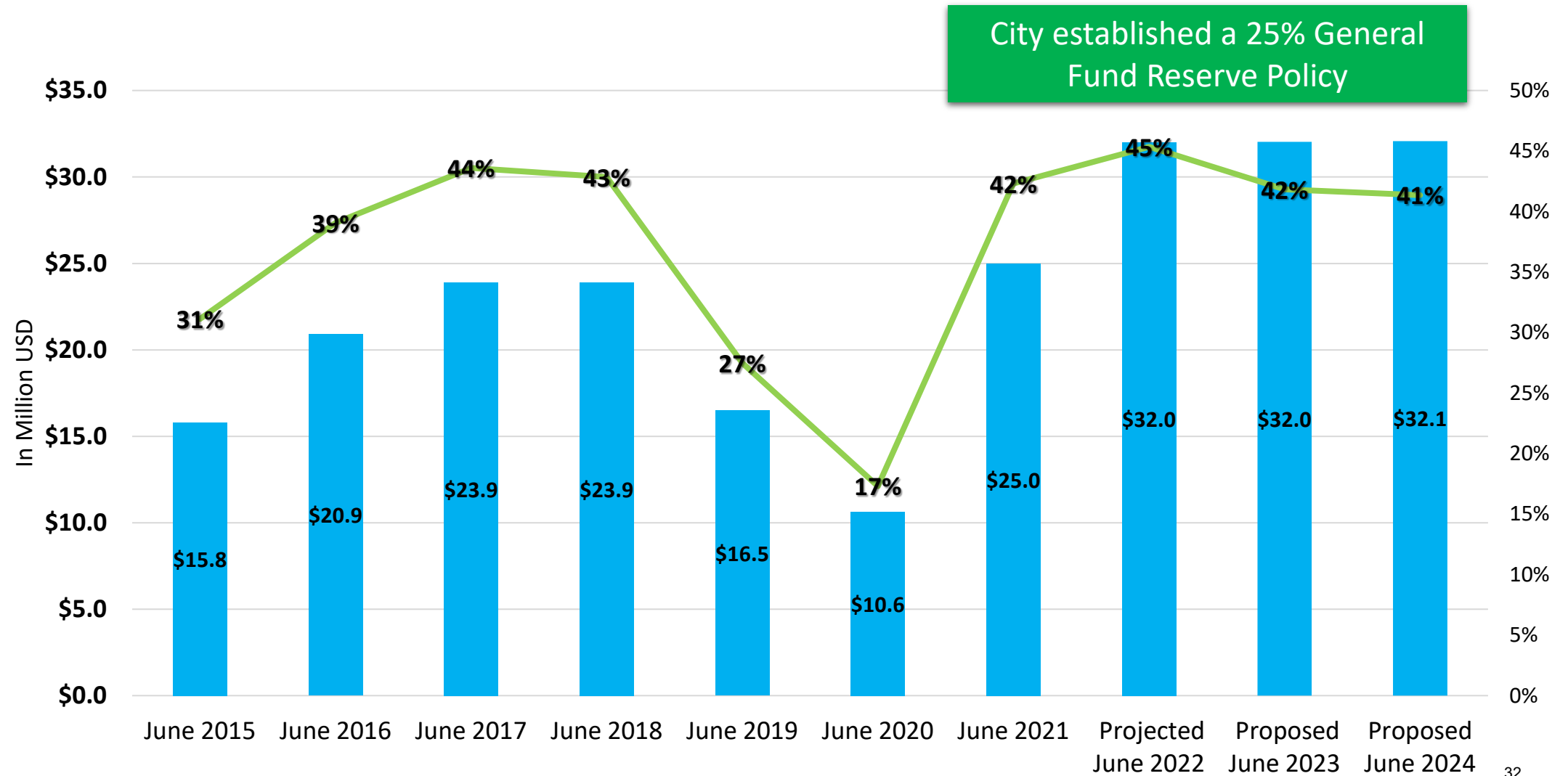


GENERAL FUND HISTORICAL REVENUE AND EXPENDITURE SUMMARY

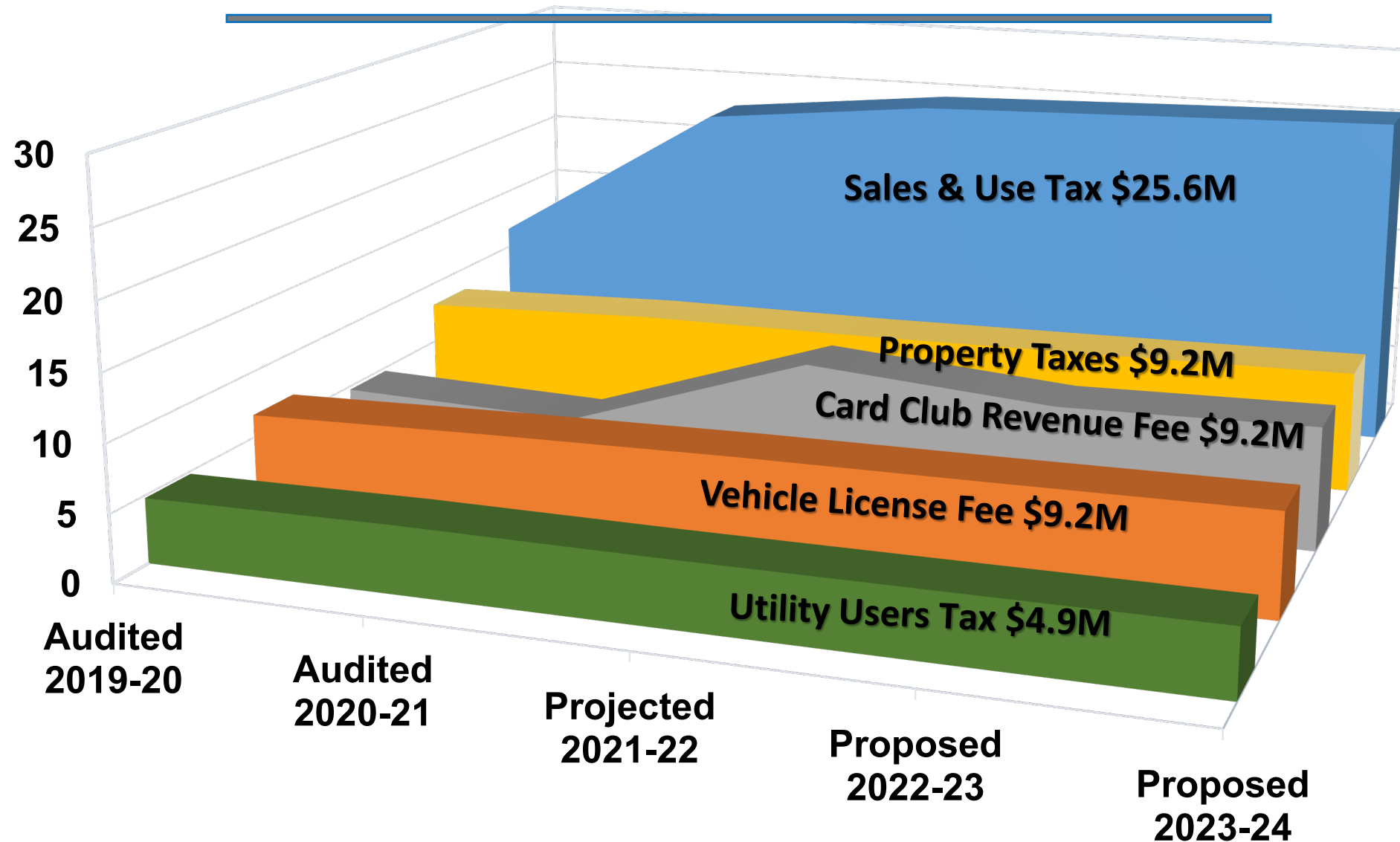
	Audited 2020-2021	Adopted 2021-2022	Proposed 2022-2023	Proposed 2023-2024	Change in % Proposed 2023-24 vs Proposed 2022-23
<u>Revenues and Other Sources:</u>					
Taxes	54,483,563	55,741,766	62,775,245	64,331,914	2.48%
Licenses and Permits	2,397,538	1,779,976	1,875,038	1,968,790	5.00%
Fines and Forfeitures	1,038,080	980,000	1,185,368	1,220,929	3.00%
Investment Income	(185,053)	255,000	330,000	355,000	7.58%
Intergovernmental	547,901	577,500	532,500	537,500	0.94%
Current Service Charges	2,401,917	2,268,298	2,506,467	2,377,600	-5.14%
Other Revenue	492,320	512,036	512,036	512,036	0.00%
Charges to Other Funds	2,674,733	2,707,439	2,698,115	2,702,388	0.16%
Transfer In	9,505,011	2,098,821	4,239,000	3,587,448	-15.37%
Total Revenues	73,356,010	66,920,836	76,653,769	77,593,605	1.23%
<u>Expenditures:</u>					
Salaries and Benefits	32,094,341	37,085,479	42,894,296	46,695,443	8.86%
Materials and Operations	16,816,978	18,572,196	21,902,370	21,741,101	-0.74%
Capital Outlay	318,055	319,804	170,254	150,254	-11.75%
Fund Transfers	9,863,925	10,887,862	11,649,841	8,967,671	-23.02%
Total Expenditures	59,093,299	66,865,341	76,616,761	77,554,469	1.22%
Net Change in General Fund Fund Balance	14,262,711	55,495	37,008	39,136	
Fund Balances - Beginning	10,693,492	24,956,203	25,011,698	25,048,706	0.15%
Fund Balances - Ending*	24,956,203	25,011,698	25,048,706	25,087,842	0.30%

* Fund 010 only

GENERAL FUND BALANCE



GENERAL FUND TOP 5 REVENUES



**GENERAL FUND REVENUES BY ACCOUNT
FOUR-YEAR COMPARISON
FISCAL YEARS ENDING 2021-2024**

Revenue Sources		2020-2021 Audited	2021-2022 Adopted	2022-2023 Proposed	2023-2024 Proposed
TAXES (001)					
3101-3105	Property Taxes	\$ 8,760,400	\$ 8,704,633	\$ 8,965,773	\$ 9,234,746
3106	Sales and Use Tax	\$ 22,825,090	\$ 20,191,841	\$ 25,165,183	\$ 25,623,576
3107-09, 3112-13	Franchise Taxes	\$ 2,025,517	\$ 2,115,000	\$ 2,164,425	\$ 2,240,000
3110	Documentary Stamp Tax	\$ 285,357	\$ 275,000	\$ 290,000	\$ 295,000
3115-3116	Business License Tax	\$ 2,508,287	\$ 2,550,000	\$ 2,677,500	\$ 2,811,375
3117	Card Club Gross Revenue Fees	\$ 4,154,913	\$ 7,500,000	\$ 8,840,000	\$ 9,193,600
3118	Utility Users Tax	\$ 4,970,799	\$ 4,877,820	\$ 4,902,643	\$ 4,929,272
3119	Franchise Utility	\$ 849,606	\$ 825,000	\$ 870,000	\$ 884,429
3121	Hotel/Motel Tax	\$ 940,637	\$ 1,300,000	\$ 1,350,000	\$ 1,420,000
3122, 3349	Property Tax - Homeowner Tax Relief	\$ 38,964	\$ 40,000	\$ 40,000	\$ 40,000
3345	Motor Vehicle License In-Lieu	\$ 44,693	\$ 40,000	\$ 40,000	\$ 40,000
3346-3348	Vehicle License/Licenses In-Lieu	\$ 7,079,299	\$ 7,322,472	\$ 7,469,721	\$ 7,619,916
TOTAL TAXES		\$ 54,483,563	\$ 55,741,766	\$ 62,775,245	\$ 64,331,914
LICENSES & PERMITS (002)					
3218-3220	Special and Entertainment Permits	\$ 139,011	\$ 150,000	\$ 157,500	\$ 165,375
3222-3232	Building and Other Permits	\$ 2,189,274	\$ 1,569,950	\$ 1,654,511	\$ 1,737,236
3234-3235	Appeals and Administration Fees	\$ 61,253	\$ 60,026	\$ 63,028	\$ 66,179
3473	Fireworks and Regulatory Fees	\$ 8,000	\$ -	\$ -	\$ -
TOTAL LICENSES and PERMITS		\$ 2,397,538	\$ 1,779,976	\$ 1,875,038	\$ 1,968,790
FINES & FORFEITURES (003)					
3533-3535	Administrative Citation and Parking Fines	\$ 1,027,870	\$ 950,000	\$ 1,155,368	\$ 1,190,929
3536-3538	Court Fines	\$ 10,210	\$ 30,000	\$ 30,000	\$ 30,000
TOTAL FINES and FORFEITURES		\$ 1,038,080	\$ 980,000	\$ 1,185,368	\$ 1,220,929
INVESTMENT INCOME (004)					
3640	Interest on Investments	\$ 69,965	\$ 150,000	\$ 150,000	\$ 175,000
3641-3644	Rents and Concessions	\$ 33,997	\$ 55,000	\$ 80,000	\$ 80,000
3645	Fair Market Value on Investments	\$ (289,015)	\$ 50,000	\$ 100,000	\$ 100,000
3646	Other Investment Income	\$ -	\$ -	\$ -	\$ -
TOTAL INVESTMENT INCOME		\$ (185,053)	\$ 255,000	\$ 330,000	\$ 355,000
FROM OTHER AGENCIES (005/006/007)					
3311	Public Safety Augmentation	\$ 405,779	\$ 410,000	\$ 415,000	\$ 420,000
3375-3376	STC Reimbursement/POST Reimbursement	\$ 19,496	\$ 2,000	\$ 2,000	\$ 2,000
3378	Mandated Cost Reimbursement	\$ 32,494	\$ 30,000	\$ 30,000	\$ 30,000
3383-88,3772,3391	Other Reimbursements	\$ 90,132	\$ 135,500	\$ 85,500	\$ 85,500
TOTAL FROM OTHER AGENCIES		\$ 547,901	\$ 577,500	\$ 532,500	\$ 537,500

**GENERAL FUND REVENUES BY ACCOUNT
FOUR-YEAR COMPARISON
FISCAL YEARS ENDING 2021-2024**

Revenue Sources		2020-2021 Audited	2021-2022 Adopted	2022-2023 Proposed	2023-2024 Proposed
CURRENT SERVICE CHARGES (008)					
3401-3402	Public Service Impact/Development Fees	\$ 156,000	\$ 32,000	\$ 50,000	\$ 50,000
3403	Business Registration Fee	\$ 1,846	\$ 2,000	\$ 2,000	\$ 2,000
3406	Trucking Impact Fee	\$ 2,026	\$ 10,000	\$ 15,000	\$ 15,000
3407	ATM Commission	\$ 20	\$ -	\$ -	\$ -
3409	Passport Fees	\$ -	\$ 10,000	\$ 10,000	\$ 10,000
3411	Tipping Fees - CDS Refuse	\$ 187,210	\$ 180,000	\$ 190,000	\$ 190,000
3404, 3418-31, 3470	Recreation Fees	\$ 81,006	\$ 254,683	\$ 326,500	\$ 331,500
3433-3435	Industrial Waste/Strong Motion/Runoff Fees	\$ 287,626	\$ 210,000	\$ 220,000	\$ 220,000
3450-3452	Planning - Fees	\$ 529,572	\$ 570,000	\$ 680,167	\$ 530,000
3453-3459	Miscellaneous Fees (Public Works)	\$ 51,150	\$ 55,800	\$ 55,800	\$ 55,800
3466	Sewer Connection Fees	\$ 38,116	\$ 30,000	\$ 30,000	\$ 30,000
3475	Police Towing Admin Fees	\$ 109,983	\$ 120,000	\$ 126,000	\$ 132,300
3491	Police Services Bus Lines	\$ 388,113	\$ 386,345	\$ 350,000	\$ 350,000
3462, 3482	Miscellaneous Fees (Police Department)	\$ 52,297	\$ 61,256	\$ 70,000	\$ 70,000
3405, 3432-38, 3463-90	Other	\$ 284,216	\$ 116,214	\$ 141,000	\$ 141,000
3492	Franchise - Admin Fees (AB939)	\$ 232,736	\$ 230,000	\$ 240,000	\$ 250,000
TOTAL CURRENT SERVICE CHARGES		\$ 2,401,917	\$ 2,268,298	\$ 2,506,467	\$ 2,377,600
OTHER REVENUE (009)					
3701	Franchise - Community Support	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
3770	Sale of Real or Personal Property	\$ 3,492	\$ 10,000	\$ 10,000	\$ 10,000
3705,3771-3787, 3789	Miscellaneous	\$ 113,814	\$ 102,036	\$ 152,036	\$ 152,036
3760, 3791	CIP and Engineering Costs Reimbursed	\$ 325,014	\$ 350,000	\$ 300,000	\$ 300,000
3901-3902	Prior Year Adjustments/Stale Checks	\$ -	\$ -	\$ -	\$ -
TOTAL OTHER REVENUE		\$ 492,320	\$ 512,036	\$ 512,036	\$ 512,036
TOTAL REVENUES		\$ 61,176,266	\$ 62,114,576	\$ 69,716,654	\$ 71,303,769
CHARGES TO OTHER FUNDS (084)		\$ 2,674,733	\$ 2,707,439	\$ 2,698,115	\$ 2,702,388
FUNDS TRANSFERRED IN (089)		\$ 9,505,011	\$ 2,098,821	\$ 4,239,000	\$ 3,587,448
TOTAL GENERAL FUND		\$ 73,356,011	\$ 66,920,836	\$ 76,653,769	\$ 77,593,605

SUMMARY OF FUND ACTIVITY FISCAL YEAR 2022-2023

FUND DESCRIPTION	PROPOSED REVENUES		TOTAL REVENUES	PROPOSED APPROPRIATIONS		TOTAL EXPENDITURES
	REVENUES	TRANSFERS IN		EXPENDITURES	TRANSFERS OUT	
General	\$ 72,414,769	\$ 4,239,000	\$ 76,653,769	\$ 64,966,920	\$ 11,649,841	\$ 76,616,761
General Fund	72,414,769	4,239,000	76,653,769	64,966,920	11,649,841	76,616,761
General Liability	1,913,564	2,236,852	4,150,416	2,650,414	-	2,650,414
Workers' Compensation	1,818,400	550,000	2,368,400	2,217,890	-	2,217,890
Health Benefits	10,116,768	-	10,116,768	8,445,957	1,636,852	10,082,809
Combined Internal Services Fund	13,848,732	2,786,852	16,635,584	13,314,261	1,636,852	14,951,113
Debt Service - 2006 Series A & B Refunding	-	1,026,340	1,026,340	1,026,340	-	1,026,340
Debt Service - 2014 Taxable Lease Rev Ref Bonds	-	506,011	506,011	506,011	-	506,011
Debt Service - 2007A Refunding Rev Bonds	-	188,545	188,545	188,545	-	188,545
Debt Service - 2017 Lease Financing	-	288,798	288,798	288,798	-	288,798
Debt Service - Taxable Pension Obligation Bonds 2020	5,153,063	2,500	5,155,563	5,155,563	-	5,155,563
Debt Service - Lease Revenue Bonds, 2021	6,020,000	940,500	6,960,500	940,500	6,020,000	6,960,500
Combined Debt Service	11,173,063	2,952,694	14,125,757	8,105,757	6,020,000	14,125,757
Capital Improvements	-	40,504,947	40,504,947	40,504,947	-	40,504,947
GTrans	29,599,945	5,837,096	35,437,041	35,308,591	128,450	35,437,041
Sewer Fund	2,660,000	-	2,660,000	1,586,058	840,962	2,427,020
Combined Enterprise Funds	32,259,945	5,837,096	38,097,041	36,894,649	969,412	37,864,061
Equipment Revolving	-	-	-	-	-	-
Technology Replacement	203,141	500,000	703,141	208,000	-	208,000
Deferred Maintenance	-	2,000,000	2,000,000	-	704,000	704,000
Post Employment Benefits Fund	-	3,223,920	3,223,920	2,968,560	-	2,968,560
Vehicle Replacement Fund	-	650,000	650,000	550,000	-	550,000
Measure H Homeless Initiative	110,000	-	110,000	110,000	-	110,000
Asset Seizure Fund-Non Federal	-	-	-	-	-	-
Consolidated Street Lighting District	839,045	-	839,045	789,045	300,000	1,089,045
Artesia Blvd. Landscape District	21,662	-	21,662	21,662	-	21,662
State Gas Tax	1,752,022	-	1,752,022	580,800	1,235,000	1,815,800
Maxine Waters Federal Earmark	1,400,000	-	1,400,000	-	1,400,000	1,400,000
Supplement Law Enforcement (SLESF)	150,000	-	150,000	150,000	-	150,000
Traffic Safety Fund	75,500	-	75,500	-	75,500	75,500

SUMMARY OF FUND ACTIVITY FISCAL YEAR 2022-2023

FUND DESCRIPTION	PROPOSED REVENUES		TOTAL REVENUES	PROPOSED APPROPRIATIONS		TOTAL EXPENDITURES
	REVENUES	TRANSFERS IN		EXPENDITURES	TRANSFERS OUT	
Asset Forfeiture Fund	-	-	-	-	-	-
Measure W Safe Clean Water Program	830,500	-	830,500	554,000	710,000	1,264,000
Surface Trans Program Local Hazard Grant	1,547,800	-	1,547,800	-	1,547,800	1,547,800
Bicycle and Pedestrian Program	56,814	-	56,814	-	136,000	136,000
Local Early Action Planning Grants	300,000	-	300,000	200,000	-	200,000
Measure M Transit	2,864,928	-	2,864,928	-	2,864,928	2,864,928
GTrans OPEB Trust	150,000	-	150,000	-	-	-
City OPEB Trust Fund	-	600,000	600,000	-	-	-
Measure R Transit	2,872,168	-	2,872,168	-	2,872,168	2,872,168
Prop A Local Return	1,491,878	-	1,491,878	1,491,878	-	1,491,878
Prop 1B Capital	-	-	-	-	-	-
Prop 1B Security	100,000	-	100,000	-	100,000	100,000
AQMD - MSRC	-	-	-	-	-	-
Parks and Recreation Urban Park Grant	-	-	-	-	-	-
Measure A	1,750,000	-	1,750,000	-	1,750,000	1,750,000
South Coast AQMD	80,500	-	80,500	77,000	3,500	80,500
Prop C Local Return	1,241,151	-	1,241,151	37,947	4,050,000	4,087,947
Prop 68 State Parks Grant	8,715,103	-	8,715,103	-	8,715,103	8,715,103
Measure R Highway	3,658,267	-	3,658,267	-	3,658,267	3,658,267
Measure R Local Return	917,863	-	917,863	37,946	1,150,000	1,187,946
In Lieu Funds	220,000	-	220,000	-	1,654,730	1,654,730
Measure M Local Return	1,057,978	-	1,057,978	26,305	1,470,000	1,496,305
SB 1- Gas Tax	1,395,521	-	1,395,521	-	4,293,047	4,293,047
SB 2 Planning Grants Program	310,000	-	310,000	100,000	-	100,000
American Rescue Plan (ARP)	2,300,000	-	2,300,000	-	2,300,000	2,300,000
Unfunded Accrued Liability (UAL) Fund	-	468,948	468,948	-	-	-
Measure M Highway	2,736,000	-	2,736,000	-	2,736,000	2,736,000
UAL Fund - GTrans	-	128,450	128,450	-	-	-
UAL Fund - Sewer	-	5,962	5,962	-	-	-
SCAMP	273,000	-	273,000	273,000	-	273,000
SCAMP - Home Delivery	219,000	-	219,000	219,000	-	219,000

SUMMARY OF FUND ACTIVITY FISCAL YEAR 2022-2023

FUND DESCRIPTION	PROPOSED REVENUES		TOTAL REVENUES	PROPOSED APPROPRIATIONS		TOTAL EXPENDITURES
	REVENUES	TRANSFERS IN		EXPENDITURES	TRANSFERS OUT	
Supportive Services Program	119,000	-	119,000	119,000	-	119,000
Social Center for Mentally Disabled	-	30,255	30,255	30,255	-	30,255
Senior Citizen Day Care - Trust	-	65,159	65,159	65,159	-	65,159
Family Child Care	3,598,052	-	3,598,052	3,598,052	-	3,598,052
Family Child Care CRRSA	-	-	-	5,610	-	5,610
Juvenile Justice & Intervention Program	-	-	-	-	-	-
Prop 56 - Tobacco Grant Program	-	-	-	-	-	-
BJA BYRNE Discretionary Grant	26,126	-	26,126	26,126	-	26,126
BJA Coronavirus Emergency Supp Funding	-	-	-	-	-	-
ABC Local Law Enforcement Agencies Prog.	-	-	-	-	-	-
State Homeland Security Grant Program	-	-	-	-	-	-
OTS DUI Enforcement Awareness Program	100,000	-	100,000	100,000	-	100,000
HOME ARP	1,040,280	-	1,040,280	1,040,280	-	1,040,280
CDBG Admin	119,355	-	119,355	119,355	-	119,355
CDBG Handyman Fixup Program	238,710	-	238,710	238,710	-	238,710
CDBG Health and Safety Code Enforcement	156,000	-	156,000	156,000	-	156,000
CDBG CV	380,000	-	380,000	380,000	-	380,000
CDBG Youth and Family Services Bureau	85,936	8,865	94,801	94,801	-	94,801
CDBG Senior Citizen Day Care Center	-	-	-	-	-	-
Combined Special Revenue Funds	45,503,300	7,681,559	53,184,859	14,368,491	43,726,043	58,094,534
TOTAL ALL FUNDS	\$ 175,199,809	\$ 64,002,148	\$ 239,201,957	\$ 178,155,025	\$ 64,002,148	\$ 242,157,173

SUMMARY OF FUND ACTIVITY FISCAL YEAR 2023-2024

FUND DESCRIPTION	PROPOSED REVENUES		TOTAL REVENUES	PROPOSED APPROPRIATIONS		TOTAL EXPENDITURES
	REVENUES	TRANSFERS IN		EXPENDITURES	TRANSFERS OUT	
General	\$ 74,006,157	\$ 3,587,448	\$ 77,593,605	\$ 68,586,798	\$ 8,967,671	\$ 77,554,469
General Fund	74,006,157	3,587,448	77,593,605	68,586,798	8,967,671	77,554,469
General Liability	1,359,585	1,186,852	2,546,437	2,736,135	-	2,736,135
Workers' Compensation	1,476,306	500,000	1,976,306	2,279,683	-	2,279,683
Health Benefits	11,005,643	-	11,005,643	9,287,373	1,786,852	11,074,225
Combined Internal Services Fund	13,841,534	1,686,852	15,528,386	14,303,191	1,786,852	16,090,043
Debt Service - 2006 Series A & B Refunding	-	1,025,189	1,025,189	1,025,189	-	1,025,189
Debt Service - 2014 Taxable Lease Rev Ref Bonds	-	508,444	508,444	508,444	-	508,444
Debt Service - 2007A Refunding Rev Bonds	-	187,545	187,545	187,545	-	187,545
Debt Service - 2017 Lease Financing	-	287,950	287,950	287,950	-	287,950
Debt Service - Taxable Pension Obligation Bonds 2020	5,541,063	2,500	5,543,563	5,543,563	-	5,543,563
Debt Service - Lease Revenue Bonds, 2021	5,000,000	943,500	5,943,500	943,500	5,000,000	5,943,500
Combined Debt Service	10,541,063	2,955,128	13,496,191	7,552,691	5,000,000	13,496,191
Capital Improvements	-	15,792,000	15,792,000	15,792,000	-	15,792,000
GTrans	43,334,439	6,434,096	49,768,535	49,638,864	129,671	49,768,535
Sewer Fund	2,686,450	-	2,686,450	1,656,153	391,019	2,047,172
Combined Enterprise Funds	46,020,889	6,434,096	52,454,985	51,295,017	520,690	51,815,707
Equipment Revolving	-	-	-	-	-	-
Technology Replacement	203,141	150,000	353,141	114,000	-	114,000
Deferred Maintenance	-	650,000	650,000	-	-	-
Post Employment Benefits Fund	-	3,483,749	3,483,749	3,206,046	-	3,206,046
Vehicle Replacement Fund	-	650,000	650,000	550,000	-	550,000
Measure H Homeless Initiative	68,883	-	68,883	68,883	-	68,883
Asset Seizure Fund-Non Federal	-	-	-	-	-	-
Consolidated Street Lighting District	864,141	-	864,141	814,141	50,000	864,141
Artesia Blvd. Landscape District	21,662	-	21,662	21,662	-	21,662
State Gas Tax	1,752,022	-	1,752,022	590,597	1,150,000	1,740,597
Maxine Waters Federal Earmark	-	-	-	-	-	-
Supplement Law Enforcement (SLESF)	150,000	-	150,000	150,000	-	150,000
Traffic Safety Fund	75,500	-	75,500	-	75,500	75,500

SUMMARY OF FUND ACTIVITY FISCAL YEAR 2023-2024

FUND DESCRIPTION	PROPOSED REVENUES		TOTAL REVENUES	PROPOSED APPROPRIATIONS		TOTAL EXPENDITURES
	REVENUES	TRANSFERS IN		EXPENDITURES	TRANSFERS OUT	
Asset Forfeiture Fund	-		-	-		-
Measure W Safe Clean Water Program	830,500		830,500	554,000	400,000	954,000
Surface Trans Program Local Hazard Grant	-		-	-		-
Bicycle and Pedestrian Program	40,000		40,000	-	40,000	40,000
Local Early Action Planning Grants	-		-	-		-
Measure M Transit	2,864,928		2,864,928	-	2,864,928	2,864,928
GTrans OPEB Trust	200,000		200,000	-		-
City OPEB Trust Fund	-	600,000	600,000	-		-
Measure R Transit	2,872,168		2,872,168	-	2,872,168	2,872,168
Prop A Local Return	1,507,058		1,507,058	1,507,058		1,507,058
Prop 1B Capital	697,000		697,000		697,000	697,000
Prop 1B Security	-		-			-
AQMD - MSRC	-		-	50,000		50,000
Parks and Recreation Urban Park Grant	-		-	-		-
Measure A	375,000		375,000		375,000	375,000
South Coast AQMD	80,500		80,500	77,000	3,500	80,500
Prop C Local Return	1,241,151		1,241,151	41,228	1,050,000	1,091,228
Prop 68 State Parks Grant	-		-			-
Measure R Highway	-		-			-
Measure R Local Return	917,863		917,863	41,228	750,000	791,228
In Lieu Funds	810,000		810,000		3,500,000	3,500,000
Measure M Local Return	1,057,978		1,057,978	28,329	950,000	978,329
SB 1- Gas Tax	1,395,521		1,395,521		1,375,000	1,375,000
SB 2 Planning Grants Program	-		-			-
American Rescue Plan (ARP)	1,648,448		1,648,448		1,648,448	1,648,448
Unfunded Accrued Liability (UAL) Fund		466,957	466,957			-
Measure M Highway	2,627,000		2,627,000		2,627,000	2,627,000
UAL Fund - GTrans	-	129,671	129,671			-
UAL Fund - Sewer	-	6,019	6,019			-
SCAMP	280,376		280,376	280,376		280,376
SCAMP - Home Delivery	219,000		219,000	219,000		219,000

SUMMARY OF FUND ACTIVITY FISCAL YEAR 2023-2024

FUND DESCRIPTION	PROPOSED REVENUES		TOTAL REVENUES	PROPOSED APPROPRIATIONS		TOTAL EXPENDITURES
	REVENUES	TRANSFERS IN		EXPENDITURES	TRANSFERS OUT	
Supportive Services Program	119,000		119,000	119,000		119,000
Social Center for Mentally Disabled		32,784	32,784	32,784		32,784
Senior Citizen Day Care - Trust	250	67,216	67,466	67,466		67,466
Family Child Care	3,669,933		3,669,933	3,669,933		3,669,933
Family Child Care CRRSA	-		-			-
Juvenile Justice & Intervention Program	-		-			-
Prop 56 - Tobacco Grant Program	-		-			-
BJA BYRNE Discretionary Grant	26,126		26,126	26,126		26,126
BJA Coronavirus Emergency Supp Funding	-		-			-
ABC Local Law Enforcement Agencies Prog.			-			-
State Homeland Security Grant Program			-			-
OTS DUI Enforcement Awareness Program	100,000		100,000	100,000		100,000
CDBG Admin	119,355		119,355	119,355		119,355
CDBG Handyman Fixup Program	238,710		238,710	238,710		238,710
CDBG Health and Safety Code Enforcement	156,000		156,000	156,000		156,000
CDBG Youth and Family Services Bureau	85,936	11,837	97,773	97,773		97,773
CDBG Senior Citizen Day Care Center	-	-	-	-	-	-
Combined Special Revenue Funds	27,315,150	6,248,233	33,563,383	12,940,695	20,428,544	33,369,239
TOTAL ALL FUNDS	\$ 171,724,793	\$ 36,703,757	\$ 208,428,550	\$ 170,470,392	\$ 36,703,757	\$ 208,117,649

**SUMMARY OF REVENUES AND EXPENDITURES
FISCAL YEAR 2022-2023 PROPOSED BUDGET - ALL FUNDS**

Fund Description	Revenues	Expenditures	Delta
General Fund	\$76,653,769	\$76,616,761	\$37,008
Combined Internal Services	\$16,635,584	\$14,951,113	\$1,684,471
Combined Debt Service	\$14,125,757	\$14,125,757	\$0
Capital Improvement (CIP)	\$40,504,947	\$40,504,947	\$0
Combined Enterprise Funds - Transportation	\$35,437,041	\$35,437,041	\$0
Combined Enterprise Funds - Sewer	\$2,660,000	\$2,427,020	\$232,980
Special Revenue Funds	\$53,184,859	\$58,094,534	(\$4,909,675)
Total All Funds - not including beginning fund balance	\$239,201,957	\$242,157,173	(\$2,955,216)

A "structurally balanced budget" projects revenues to exceed expenditure appropriations within the term of the budget. The City's fiscal year (term) is from July 1 - June 30 so expenditure appropriations must be made within revenue projections. The variance between revenue and expenditures is referred to as the "delta" (^) and may be positive, reflecting a structurally balanced budget, or negative, indicating a structural imbalance. A structural imbalance is normally the result of the revenue being received in a prior fiscal year. When a positive delta exists at the end of a fiscal year, revenues may be appropriated to expend in the next fiscal year or may be set aside as a reserve to be used for an emergency or one-time opportunities. Fund balance reserves are not intended to offset normal operating cost or to balance an unstructured budget. The General Fund is the only fund that is totally discretionary and therefore must balance a negative delta in any fund; conversely other funds may not be used to balance a negative delta in the General Fund.

**SUMMARY OF REVENUES AND EXPENDITURES
FISCAL YEAR 2023-2024 PROPOSED BUDGET - ALL FUNDS**

Fund Description	Revenues	Expenditures	Delta
General Fund	\$77,593,605	\$77,554,469	\$39,136
Combined Internal Services	\$15,528,386	\$16,090,043	(\$561,657)
Combined Debt Service	\$13,496,191	\$13,496,191	\$0
Capital Improvement (CIP)	\$15,792,000	\$15,792,000	\$0
Combined Enterprise Funds - Transportation	\$49,768,535	\$49,768,535	\$0
Combined Enterprise Funds - Sewer	\$2,686,450	\$2,047,172	\$639,278
Special Revenue Funds	\$33,563,383	\$33,369,239	\$194,144
Total All Funds - not including beginning fund balance	\$208,428,550	\$208,117,649	\$310,901

A "structurally balanced budget" projects revenues to exceed expenditure appropriations within the term of the budget. The City's fiscal year (term) is from July 1 - June 30 so expenditure appropriations must be made within revenue projections. The variance between revenue and expenditures is referred to as the "delta" (^) and may be positive, reflecting a structurally balanced budget, or negative, indicating a structural imbalance. A structural imbalance is normally the result of the revenue being received in a prior fiscal year. When a positive delta exists at the end of a fiscal year, revenues may be appropriated to expend in the next fiscal year or may be set aside as a reserve to be used for an emergency or one-time opportunities. Fund balance reserves are not intended to offset normal operating cost or to balance an unstructured budget. The General Fund is the only fund that is totally discretionary and therefore must balance a negative delta in any fund; conversely other funds may not be used to balance a negative delta in the General Fund.



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DEPARTMENT PROPOSED BUDGETS FY 2022/2023 & 2023/2024

OPERATIONAL DEPARTMENTS

CITIZENS OF GARDENA

ELECTED & CITY MANAGER'S OFFICE

**Administrative
Services**

Police

Public Works

**Recreation &
Human Services**

**Community
Development**

GTrans



J. Ingrid Tsukiyama
City Treasurer



Art Kaskanian
Councilmember



Rodney G. Tanaka
Mayor Pro Tem



Tasha Cerda
Mayor



Mark E. Henderson Ed. D
Councilmember



Paulette C. Francis
Councilmember



Mina Semenza
City Clerk



Clint Osorio
City Manager

ELECTED & CITY MANAGER'S OFFICES

City of Gardena

CITY COUNCIL

- Legislative body for the City of Gardena and serve on various committees, commissions, and boards
- Provides policy and operational direction to the City Manager
- Establishes City services and service levels; tax rates, fees, assessments,- and other revenue as set forth by the Gardena Municipal Code

CITY MANAGER

- Appoint all department heads and supervise the operation of all City departments.
- Implementing Mayor and City Council's policy decisions and objectives.
- Prepare and observe the municipal budget and make recommendations to the City Council.

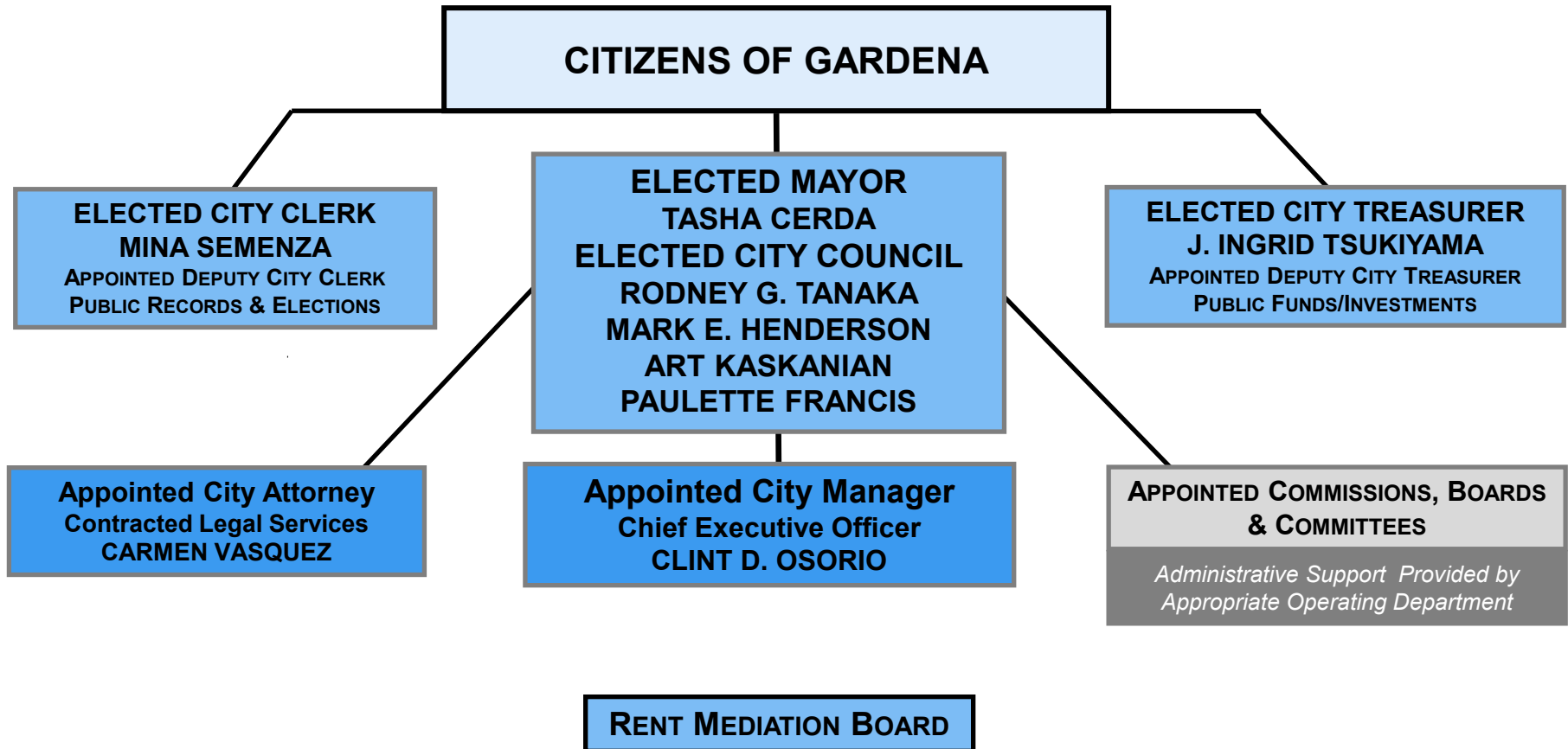
CITY CLERK

- Maintaining records and updating Municipal Code
- Provides resources to the public and City staff
- Publication and posting of ordinances, meetings, and other legal notices

CITY TREASURER

- Performs an oversight role of the investing of all public funds
- Advises the City Council with regard to investment policies and oversight
- Provides centralized cashing system services for all City departments

ELECTED & CITY MANAGER'S OFFICES

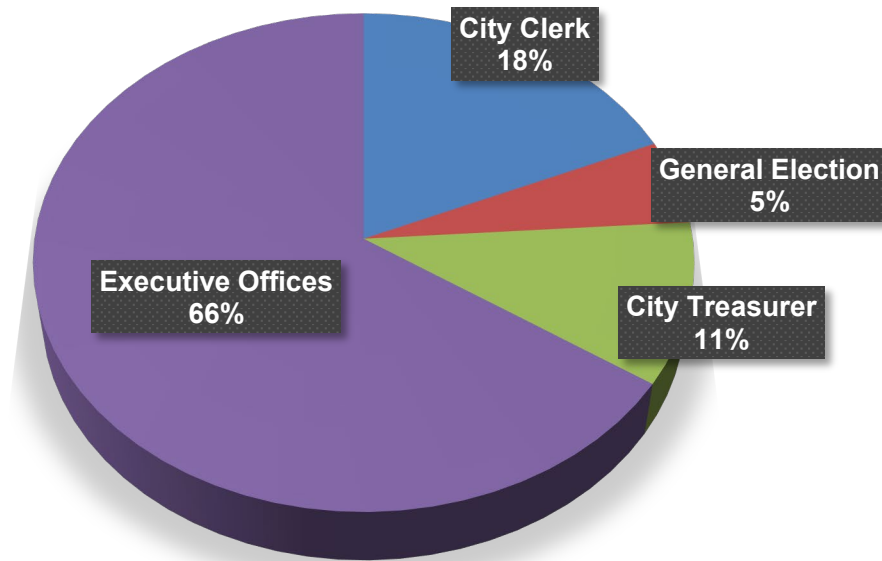


ELECTED & CITY MANAGER'S OFFICES

Staffing Plan

Elected & City Manager's Offices						
Staffing Plan - Full Time Equivalent Positions						
	Budgeted FY18/19	Budgeted FY 19/20	Budgeted FY 20/21	Budgeted FY 21/22	Proposed FY 22/23	Proposed FY 23/24
<u>MAYOR & CITY COUNCIL OFFICE</u>						
Elected Mayor (1)	-	-	-	-	-	-
Elected Councilperson (4)	-	-	-	-	-	-
Executive Office Assistant	1.00	1.00	1.00	1.00	1.00	1.00
Total Mayor/Council Office	1.00	1.00	1.00	1.00	1.00	1.00
<u>CITY CLERK'S OFFICE</u>						
Elected City Clerk (1)	-	-	-	-	-	-
Appointed Deputy City Clerk	1.00	1.00	1.00	1.00	1.00	1.00
Records Management Coordinator	-	-	1.00	1.00	1.00	1.00
Customer Service Clerk II	1.00	1.00	1.00	1.00	1.00	1.00
Customer Service Clerk I	1.00	1.00	1.00	1.00	1.00	1.00
Total City Clerk's Office	3.00	3.00	4.00	4.00	4.00	4.00
<u>CITY TREASURER'S OFFICE</u>						
Elected City Treasurer (1)	-	-	-	-	-	-
Appointed Deputy City Treasurer	1.00	1.00	1.00	1.00	1.00	-
Appointed Deputy City Treasurer / Financial Services Manager	-	-	-	-	-	1.00
Senior Account Clerk	-	-	-	-	0.50	1.00
** Account Clerk	0.54	0.54	-	-	-	-
Intern	-	-	-	0.75	-	-
Total City Treasurer's Office	1.54	1.54	1.00	1.75	1.50	2.00
<u>CITY MANAGER'S OFFICE</u>						
City Manager (Appointed by City Council)	1.00	1.00	1.00	1.00	1.00	1.00
Assistant City Manager	-	-	-	-	1.00	1.00
Public Information Officer	-	-	-	-	1.00	1.00
Administrative Aide	1.00	1.00	1.00	2.00	-	-
Administrative Analyst I	-	-	1.00	1.00	1.00	1.00
* Senior Administrative Analyst	1.00	1.00	-	-	-	-
Clerk Typist (Lobby Receptionist)	1.00	1.00	-	-	-	-
Intern	-	-	0.33	0.33	0.80	0.80
Rent Mediation Board (15)	-	-	-	-	-	-
Total City Manager's Office	4.00	4.00	3.33	4.33	4.80	4.80
TOTAL ELECTED & CITY MANAGER'S OFFICES	9.54	9.54	9.33	11.08	11.30	11.80
*Vacant position (frozen) due to Covid related budget shortfalls						
**Positions eliminated due to Covid related budget shortfalls						

Elected and City Manager's Offices	Audited 2020-2021	Adopted 2021-2022	Proposed 2022-2023	Proposed 2023-2024
City Clerk	328,399	414,173	492,368	524,543
General Election	188	105,184	-	155,184
City Treasurer	269,207	223,300	273,887	297,715
Executive Offices	1,299,928	1,511,492	1,865,645	1,864,266
Total Elected and City Manager's Offices	1,897,722	2,254,149	2,631,900	2,841,708





ADMINISTRATIVE SERVICES

City of Gardena

The Administrative Services Department includes Human Resources, Technology, and, the Finance Division. We safeguard the short and long-term financial stability of the community through prudent fiscal policies, coordinate the recruitment and retention of top-notch employees, and safeguard the sensitive information that filters through our technology department. We are committed to providing excellent service to our internal departments and our community.

01 GOAL

Conduct an RFP to initiate the process of obtaining a new Enterprise Resource Planning system for accounting, procurement, planning, human resources, permitting, licensing, etc.

02 GOAL

Conducting a classification and compensation study to assure that top-notch employees are recruited and retained.

03 GOAL

Updating and streamlining the City websites to provide easily accessible information to the community.



ADMINISTRATIVE SERVICES

CITY MANAGER
CLINT OSORIO

DIRECTOR
RAY BEEMAN

TECHNOLOGY RESOURCES

Network Infrastructure
Desktop Computer Support
Mobile Devices Support
Telephone Administration
Cable Television
Webmaster
Graphics/Publications

FISCAL RESOURCES

Payroll & Benefits
Accounts Payable & Receivable
Revenue Management/Collections
Budgeting, Auditing,
Grant/Special Revenue Accounting
Financial Analysis & Reporting
Capital Funding/Debt Administration

HUMAN RESOURCES

Recruitment & Hiring
Classification & Compensation
Employee/Retiree Benefits
Workers Compensation
Labor Relations
Employee Services

INVESTMENTS

Investment Management
Investment Analysis
Ensure Sufficient Liquidity

PURCHASING

Procurement
Service Contracts
PO Issuance

RISK MANAGEMENT

Claim Processing
Property Damage Processing
Purchase Citywide Insurance

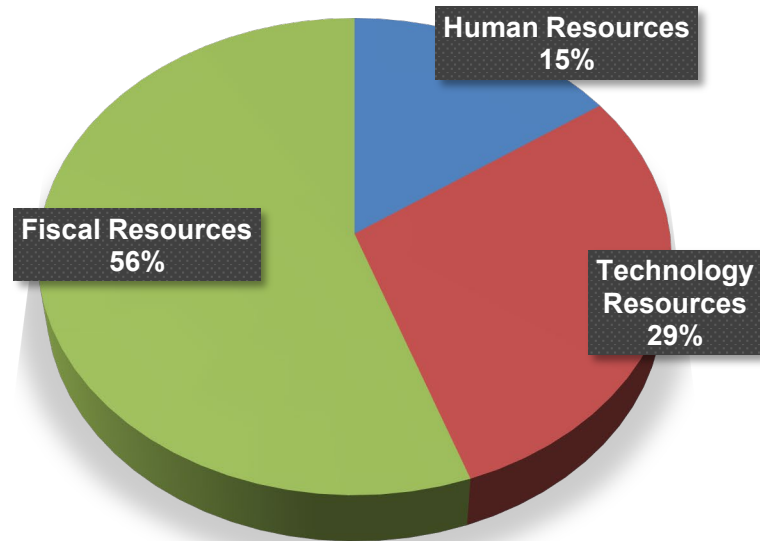
ADMINISTRATIVE SERVICES

Staffing Plan

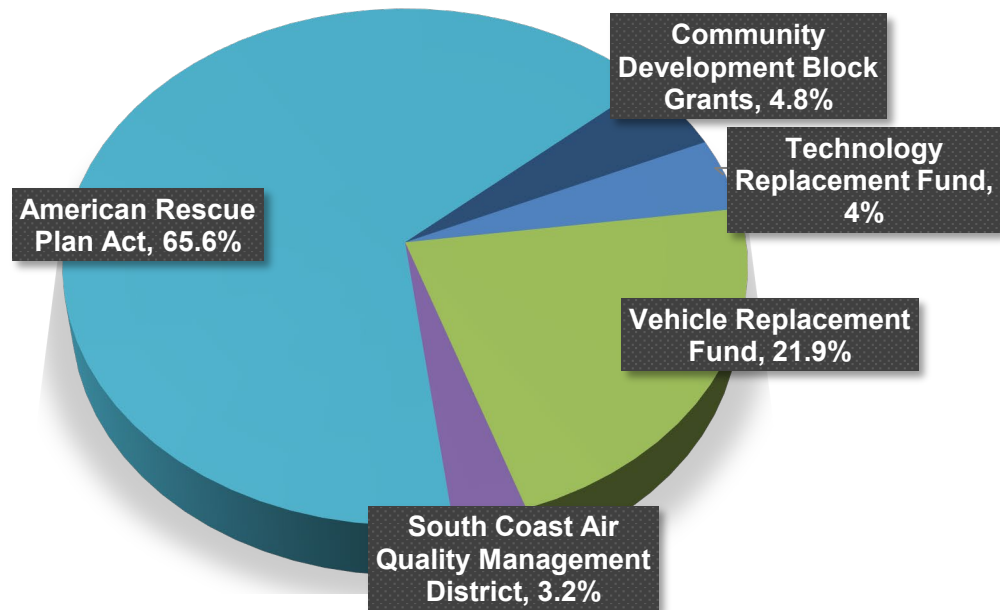
Administrative Services

Administrative Services							
Staffing Plan - Full Time Equivalent Positions							
ADMINISTRATIVE SERVICES	Budgeted FY18/19	Budgeted FY 19/20	Budgeted FY 20/21	Budgeted FY 21/22	Proposed FY 22/23	Proposed FY 23/24	
<u>Fiscal Resources</u>							
Administrative Services Director	1.00	1.00	-	-	1.00	1.00	
Chief Fiscal Officer	1.00	1.00	1.00	1.00	-	-	
* Accounting/Finance Manager	1.00	1.00	-	-	-	-	
* Senior Accountant	1.00	1.00	-	-	-	-	
Senior Accountant Grants	0.10	0.10	-	-	-	-	
Cost Accountant	-	-	-	1.00	1.00	1.00	
Administrative Services Manager	-	-	-	-	1.00	1.00	
Administrative Analyst III			1.00	1.00			
Administrative Analyst II	1.00	1.00	-	-	1.00	1.00	
Administrative Analyst I	1.00	1.00	-	-	-	-	
** Admin Aide	1.00	1.00	-	-	-	-	
* Junior Accountant / Financial Services Technician	3.00	3.00	2.00	1.00	2.00	2.00	
Payroll/Personnel Technician	1.00	1.00	1.00	1.00	1.00	1.00	
Payroll Specialist	1.00	1.00	1.00	1.00	1.00	1.00	
Intern	-	-	-	0.75	0.75	1.50	
** Account Clerk	0.46	0.46	-	-	-	-	
Senior Account Clerk	1.00	1.00	1.00	1.00	1.50	1.00	
Total Fiscal Resources	13.56	13.56	7.00	7.75	10.25	10.50	
<u>Human Resources</u>							
Human Resources Manager	0.25	0.25	0.40	0.40	0.40	0.40	
Senior Human Resources Analyst	-	-	-	-	0.40	0.40	
Human Resources Analyst	-	-	0.40	0.40	0.50	0.50	
Administrative Analyst I			2.00	2.00			
** Human Resources Technician	1.00	1.00	-	-	-	-	
Human Resources Coordinator	-	-	-	-	0.50	0.50	
Risk Management Analyst	-	-	-	-	1.00	1.00	
Intern	-	-	-	-	0.75	0.75	
Total Human Resources	1.25	1.25	2.80	2.80	3.55	3.55	
<u>Technology Resources</u>							
Technology Manager	1.00	-	-	-	-	-	
Information Technology Supervisor	-	-	-	-	1.00	1.00	
Information Technology Coordinator	3.00	3.00	2.00	2.00	1.00	1.00	
** Graphics Technician	1.00	1.00	-	-	-	-	
Help Desk Technician	-	-	1.00	1.00	2.00	2.00	
Intermediate Clerk Typist	1.00	1.00	-	-	-	-	
Intern	-	-	-	0.75	-	-	
Total Technology Resources	6.00	5.00	3.00	3.75	4.00	4.00	
TOTAL ADMINISTRATIVE SERVICES	20.81	19.81	12.80	14.30	17.80	18.05	
* Vacant positions (frozen) due to COVID related budget shortfalls							
** Positions eliminated due to COVID related budget shortfalls							

Administrative Services	Audited 2020-2021	Adopted 2021-2022	Proposed 2022-2023	Proposed 2023-2024
Human Resources	273,412	266,376	460,249	409,144
Technology Resources	516,716	571,197	646,926	781,995
Fiscal Resources	865,842	1,065,111	1,383,414	1,481,125
Total Administrative Services	1,655,970	1,902,684	2,490,589	2,672,264



Special Revenue Funds Administrative Services	Audited 2020-2021	Adopted 2021-2022	Proposed 2022-2023	Proposed 2023-2024
Technology Replacement Fund	100,125	153,600	208,000	114,000
Deferred Maintenance Fund	38,017	1,199,694	704,000	-
Vehicle Replacement Fund	527,972	475,000	550,000	550,000
South Coast Air Quality Management District	132,812	80,500	80,500	80,500
American Rescue Plan Act	7,501,031	-	2,300,000	1,648,448
HOME ARP	-	-	1,040,280	-
Community Development Block Grants	619,521	125,000	499,355	119,355
Total Administrative Services Special Revenue Funds	8,919,478	2,033,794	5,382,135	2,512,303





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RECREATION HUMAN SERVICES

City of Gardena

The Recreation and Human Services Department is responsible for providing a broad array of recreation, social and community services to a diverse community of individuals, families, and organizations. The Department is advised by four Commissions appointed by the City Council: Recreation and Parks, Senior Citizens, Youth, and Human Services. The Department has two program divisions: the Recreation Division and the Human Services Division.

01 GOAL

To support and promote the quality of life and the local economy; and ensure public safety by providing a number and quality of safe, accessible, and affordable programs.

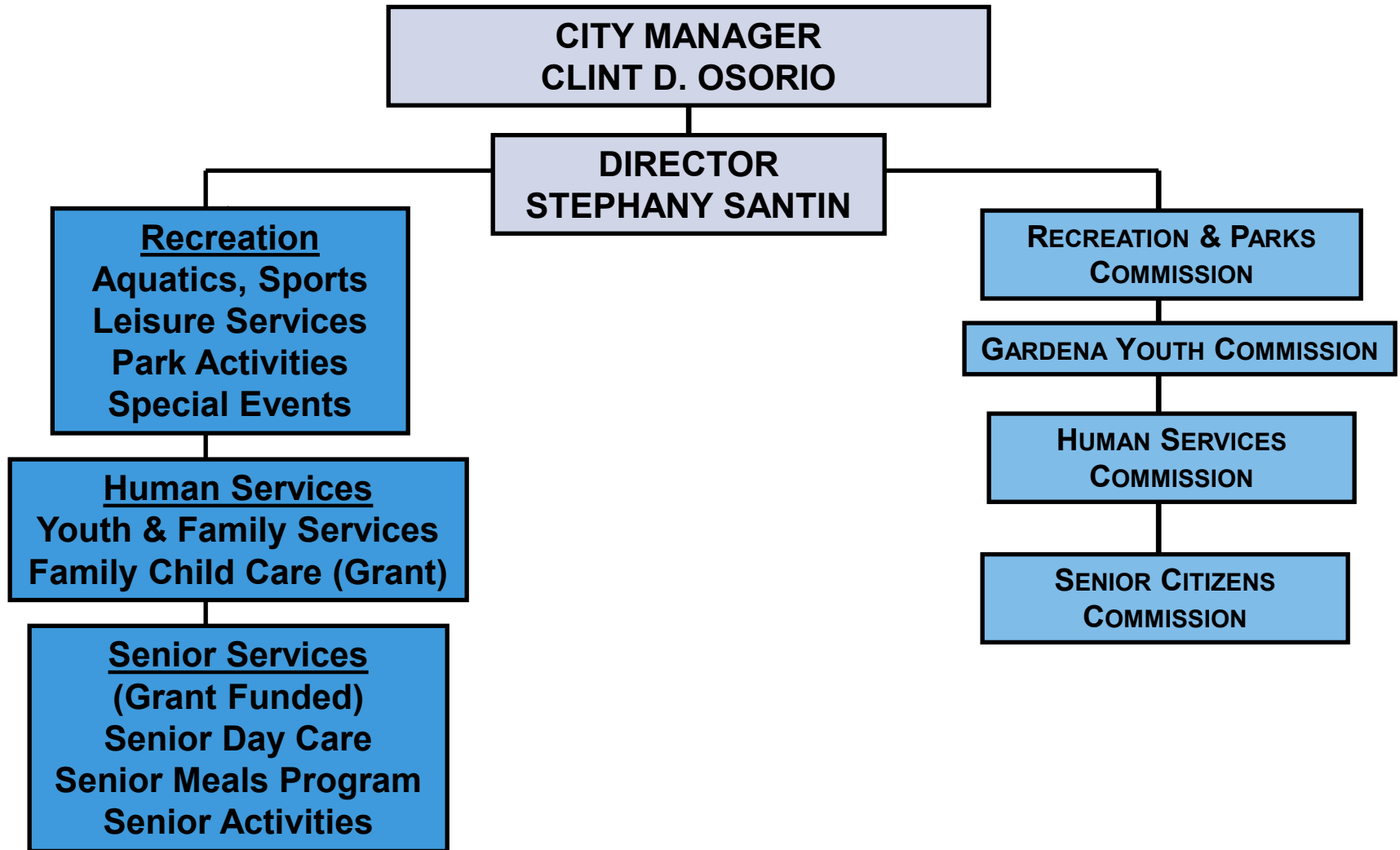
02 GOAL

Facilitate, volunteer, and provide recreational opportunities for individuals with disabilities that promote an optimal lifestyle.

03 GOAL

Provide a wide variety of events and community services which facilitate community unity, engagement, and cultural participation.

RECREATION & HUMAN SERVICES



RECREATION & HUMAN SERVICES

Staffing Plan

Recreation & Human Services						
Staffing Plan - Full Time Equivalent Positions						
RECREATION & HUMAN SERVICES	Budgeted FY18/19	Budgeted FY 19/20	Budgeted FY 20/21	Budgeted FY 21/22	Proposed FY 22/23	Proposed FY 23/24
<u>Recreation</u>						
Director of Recreation & Human Services	1.00	1.00	1.00	1.00	1.00	1.00
* Recreation Program Administrator	2.00	2.00	1.00	1.00	1.00	1.00
Administrative Aide						1.00
Administrative Analyst I	1.00	1.00	1.00	1.00	1.00	1.00
** Administrative Analyst II	1.00	1.00	-	-	-	-
* Recreation Services Manager (Vacant)	1.00	1.00	-	-	-	1.00
* Recreation Supervisor	2.00	2.00	-	1.00	2.00	2.00
Intern	-	-	0.19	0.19	0.60	0.60
Community Services Counselor	1.00	1.00	1.00	1.00	2.00	2.00
Community Center Coordinator	1.00	1.00	1.00	1.00	1.00	2.00
* Recreation Coordinator	5.00	5.00	4.00	3.00	3.00	3.00
** Senior Clerk Typist (Vacant)	2.00	2.00	-	-	-	-
* Recreation Leader III (Vacant)	0.65	0.65	-	-	-	-
Lifeguard/Instructor	0.55	0.55	-	-	-	7.50
** Recreation Leader II	3.23	3.23	1.07	1.07	3.80	3.80
** Recreation Leader I	15.81	15.81	10.74	10.74	15.46	15.46
Activity Coordinator	-	-	-	1.00	2.00	2.00
Recreation Commissioners (5)	-	-	-	-	-	-
Senior Citizens Commissioners (5)	-	-	-	-	-	-
Human Services Commissioners (5)	-	-	-	-	-	-
Gardena Youth Commissioners (10)	-	-	-	-	-	-
Total Recreation	37.24	37.24	21.00	22.00	32.86	43.36
<u>Facilities</u>						
Custodian Lead	1.00	1.00	1.00	1.75	1.59	1.59
Custodian II	9.00	9.00	8.00	8.00	8.00	8.00
Custodian I	1.69	1.69	-	-	3.50	3.50
Total Facilities	11.69	11.69	9.00	9.75	13.09	13.09
* Vacant positions (frozen) due to COVID related budget shortfalls						
** Positions eliminated due to COVID related budget shortfalls						

RECREATION & HUMAN SERVICES

Staffing Plan

Recreation & Human Services

Staffing Plan - Full Time Equivalent Positions

RECREATION & HUMAN SERVICES cont.

Human Services

	Budgeted FY18/19	Budgeted FY 19/20	Budgeted FY 20/21	Budgeted FY 21/22	Proposed FY 21/23	Proposed FY 21/24
Family Child Care Manager	1.00	1.00	1.00	1.00	1.00	1.00
Family Child Care Education Coordinator	0.23	0.23	1.00	1.00	1.00	1.00
Family Child Care Education Assistant III	1.00	1.00	1.00	1.00	1.00	1.00
Family Child Care Education Assistant II	2.06	2.06	1.56	1.56	1.63	1.63
Family Child Care Program Assistant II	1.00	1.00	1.51	1.51	1.85	1.85
Family Child Care Program Assistant I	0.56	0.56	0.29	0.29	0.45	0.45
Administrative Aide	1.00	1.00	1.00	1.00	1.00	1.00
Administrative Coordinator	-	-	-	-	1.00	1.00
Human Services Aide	-	-	-	-	1.18	1.18
Community Aide I (Vacant)	0.25	0.25	-	-	-	-
Community Aide II	0.77	0.77	1.00	1.00	1.00	1.00
Community Aide III (Vacant)	0.35	0.35	-	-	-	-
Certified Nursing Assistant	1.00	1.00	1.44	1.44	1.44	1.44
Nutrition Services Coordinator	2.00	2.00	3.00	3.00	3.00	3.00
Homeless Coordinator	-	-	-	-	1.00	1.00
Recreation Therapist (Vacant)	0.54	0.54	-	-	-	-
Recreation Leader II (Vacant)	0.86	0.86	-	-	-	-
Recreation Leader I	0.50	0.50	1.21	1.21	-	-
Assistant Site Manager III	0.48	0.48	0.45	0.45	-	-
Meal Services Coordinator					2.41	2.41
* Community Aide I	0.74	0.74	-	-	-	-
* Peer Advocate Counselor II	1.07	1.07	-	-	-	-
Geriatric Aide	0.75	0.75	0.58	0.58	0.40	0.40
Assistant Site Manager I	0.54	0.54	0.52	0.52	-	-
Total Human Services	16.70	16.70	15.56	15.56	19.36	19.36

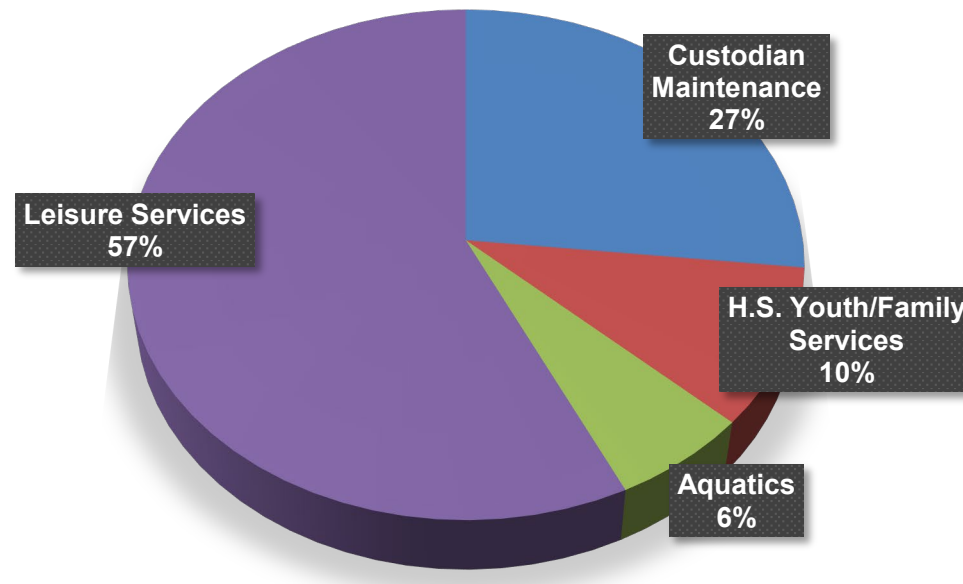
TOTAL RECREATION & HUMAN SERVICES

65.63 65.63 45.56 47.31 65.31 75.81

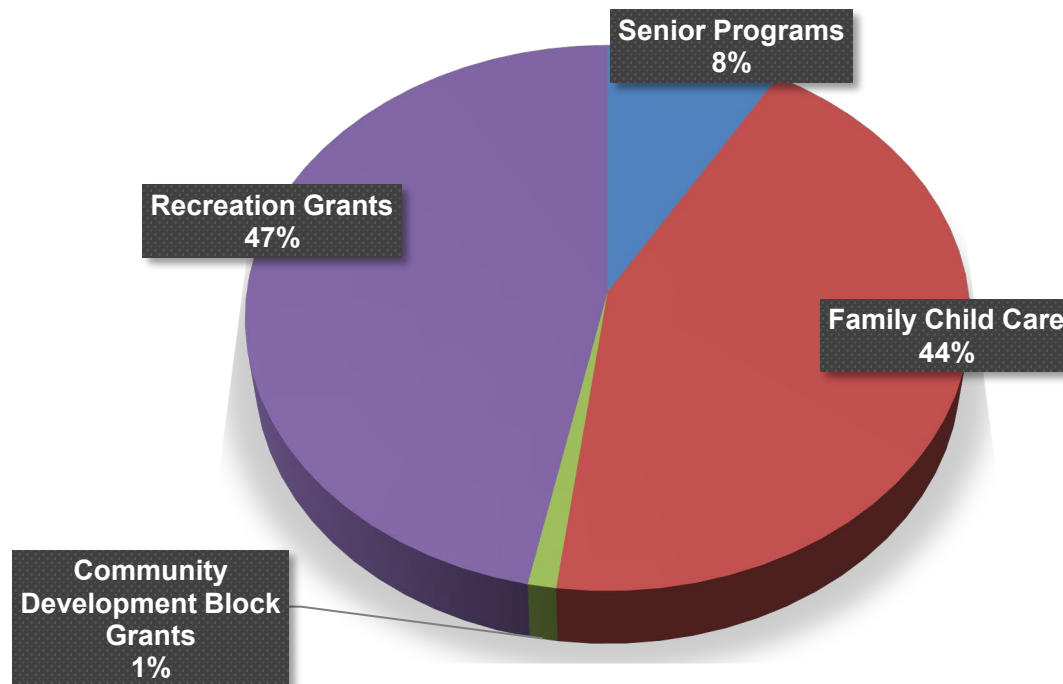
* Vacant positions (frozen) due to COVID related budget shortfalls

** Positions eliminated due to COVID related budget shortfalls

Recreation & Human Services	Audited 2020-2021	Adopted 2021-2022	Proposed 2022-2023	Proposed 2023-2024
Custodian Maintenance	751,788	1,109,477	1,241,894	1,316,346
H.S. Youth/Family Services	138,185	176,819	434,353	495,754
Aquatics	-	-	-	301,407
Leisure Services	1,404,931	2,099,520	2,760,206	2,815,559
Total Recreation & Human Services	2,294,904	3,385,816	4,436,453	4,929,066



Special Revenue Funds Recreation & Human Services	Audited 2020-2021	Adopted 2021-2022	Proposed 2022-2023	Proposed 2023-2024
Senior Programs	1,128,391	702,115	706,414	718,626
Family Child Care	2,635,094	2,841,831	3,603,662	3,669,933
Community Development Block Grants	77,849	90,000	94,801	97,773
Recreation Grants	1,527,918	1,328,952	13,629,833	3,943,883
Total Recreation & Human Services Special Revenue Funds	5,369,252	4,962,898	18,034,710	8,430,215





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POLICE DEPARTMENT

City of Gardena

Our role is to foster a responsible partnership with the community to identify, reduce, eliminate, and prevent problems that impact community safety and order. Our employees provide law enforcement services directed toward achieving the goals and objectives of the Police Department and the City. While adhering to the Law Enforcement Code of Ethics, we execute our activities along with our fellow departments to ensure that all work efforts effectively mobilize the resources of the Police Department to promote public safety in our community.

01 GOAL

Succession Planning- Develop innovative ways to recruit, mentor, and retain the next generation of employees at the Gardena Police Department.

02 GOAL

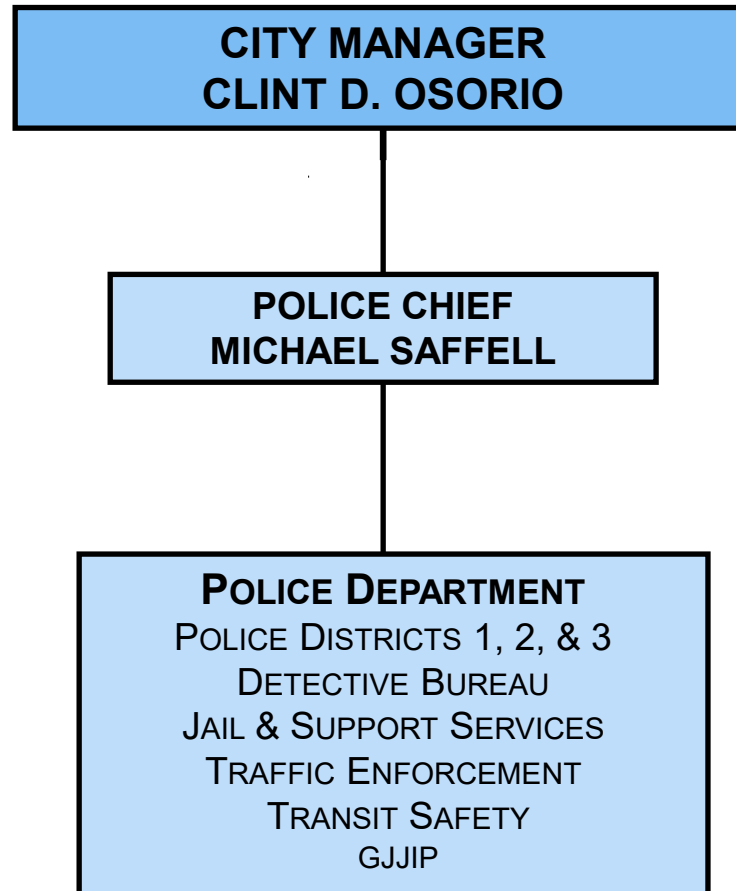
District Policing- Continue to evolve our Community Policing outreach to strengthen trust with our community partners.

03 GOAL

Innovation and Technology to Create a Safer Future- Use innovation and technology to increase safety and effectiveness when impacting crime and disorder.



POLICE



POLICE

Staffing Plan

Police & Community Safety

Staffing Plan - Full Time Equivalent Positions

Police & Community Safety

Sworn Staffing

	Budgeted FY18/19	Budgeted FY 19/20	Budgeted FY 20/21	Budgeted FY 21/22	Proposed FY 22/23	Proposed FY 23/24
Police Chief	1.00	1.00	1.00	1.00	1.00	1.00
* Police Captain	2.00	2.00	1.00	2.00	2.00	2.00
** Police Lieutenant	6.00	6.00	5.00	5.00	6.00	6.00
Police Sergeant	13.00	13.00	13.00	13.00	14.00	14.00
* Police Officer	73.00	72.00	67.00	66.00	64.00	66.00
Police Trainee	-	-	1.50	-	2.00	2.00
Total Sworn	95.00	94.00	88.50	87.00	89.00	91.00

Non-Sworn Police Department

Administrative Management Analyst I	0.30	0.30	0.30	0.30	0.40	0.40
** Administrative Analyst III	1.00	1.00	-	-	-	-
Forensic Technician	1.00	1.00	1.00	1.00	1.00	1.00
Admin Support Services Supervisor	1.00	1.00	1.00	1.00	1.00	1.00
Executive Assistant to Chief of Police	-	-	-	-	1.00	1.00
Administrative Aide	1.00	1.00	1.00	1.00	1.00	1.00
* Police Service Officer	9.00	9.00	7.00	8.00	10.00	10.00
* Police Records Technician II	6.00	6.00	4.00	4.00	4.00	4.00
Police Records Technician I	2.00	2.00	4.00	4.00	4.00	4.00
* Police Service Technician	2.00	2.00	2.00	2.00	2.00	2.00
Public Safety Officer	1.00	1.00	-	-	-	-
** Police Assistant	18.61	18.61	14.99	14.99	15.50	15.50
Total Non-Sworn	42.91	42.91	35.29	36.29	39.90	39.90

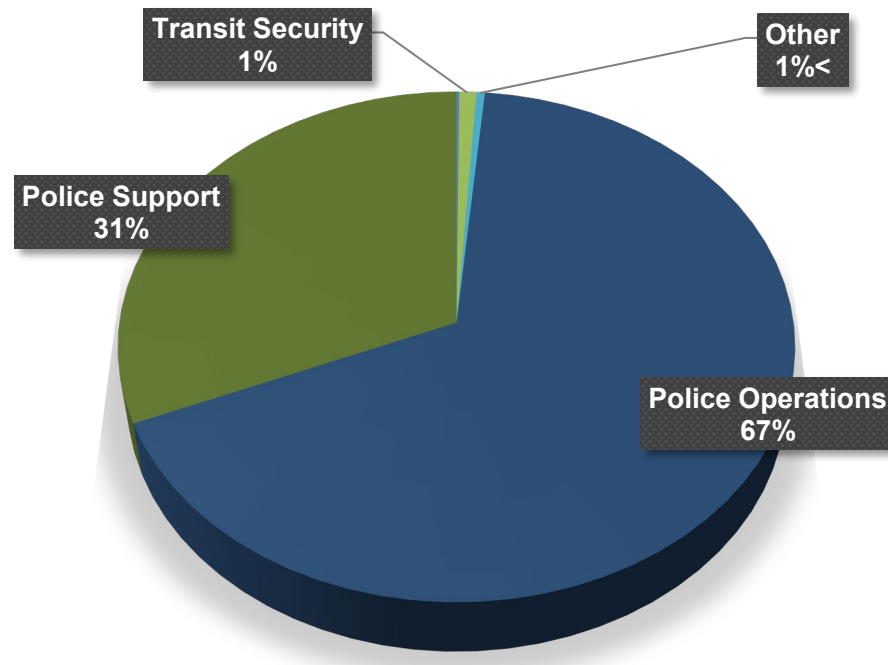
TOTAL POLICE & COMMUNITY SAFETY

137.91 136.91 123.79 123.29 128.90 130.90

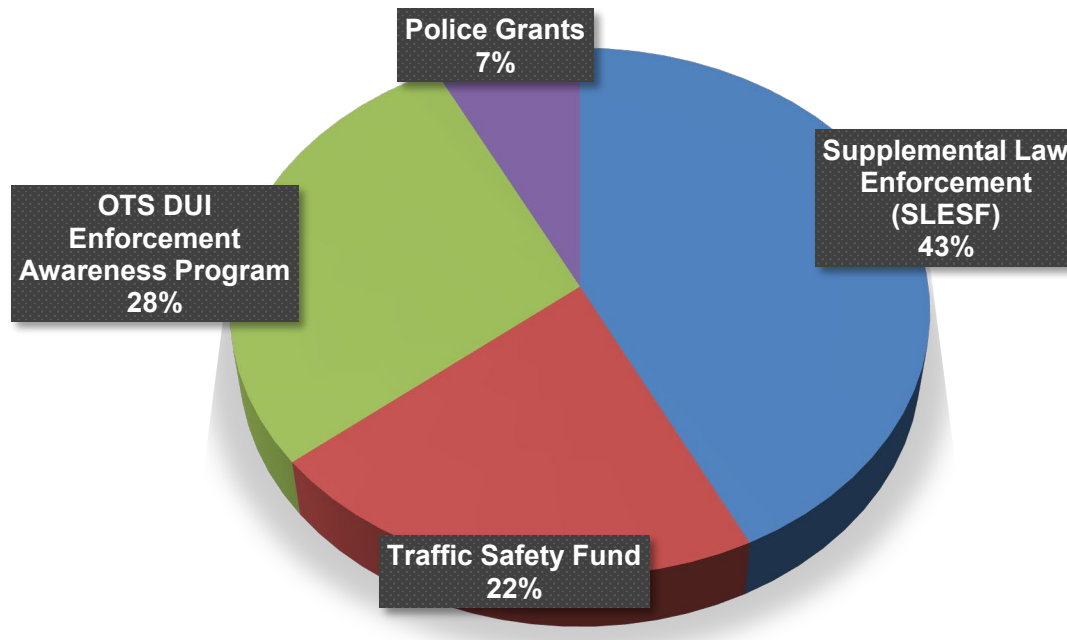
* Vacant positions (frozen) due to COVID related budget shortfalls

** Positions eliminated due to COVID related budget shortfalls

Police Department	Audited 2020-2021	Adopted 2021-2022	Proposed 2022-2023	Proposed 2023-2024
Juvenile Justice & Intervention Program	33,438	50,000	50,000	50,000
Transit Security	233,897	246,391	292,837	306,480
Parking Compliance	134,984	150,100	150,100	150,100
Police Operations	17,329,004	20,019,810	22,073,934	23,069,923
Police Support	7,533,109	8,176,350	10,311,626	10,732,685
Total Police	25,264,433	28,642,651	32,878,497	34,309,188



Special Revenue Funds Police Department	Audited 2020-2021	Adopted 2021-2022	Proposed 2022-2023	Proposed 2023-2024
Supplemental Law Enforcement	70,525	151,000	150,000	150,000
Traffic Safety Fund	-	75,500	75,500	75,500
OTS DUI Enforcement Awareness	69,760	100,000	100,000	100,000
Police Grants	810,714	197,181	26,126	26,126
Total Police Department Special Revenue Funds	950,999	523,681	351,626	351,626





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PUBLIC WORKS

City of Gardena

The Public Works Department maintains the safety and aesthetics of the city streets, facilities, parks, medians and equipment at the highest standards. The Department provides continual maintenance and improvement of the City's physical infrastructure and facilities and provides quality engineering service.

01 GOAL

Monitor and Update Public Works Fleet and Equipment to Reduce replacement cost for fleet improvement.

02 GOAL

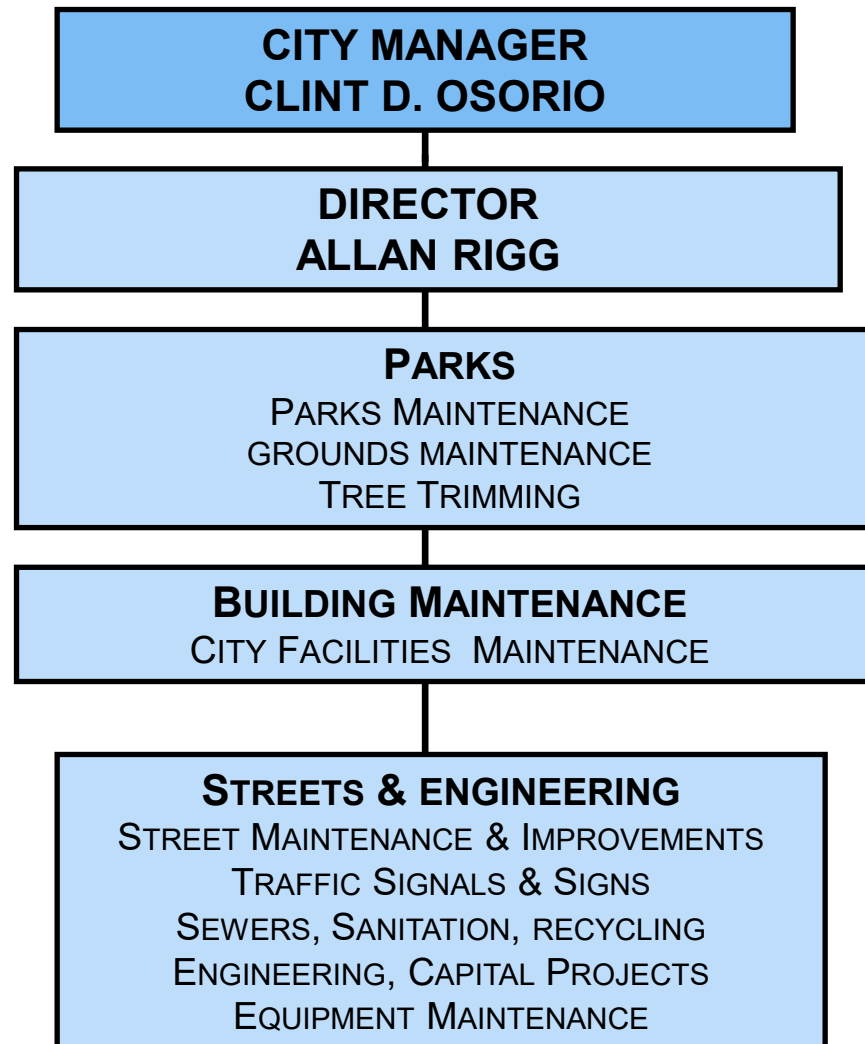
Develop Geographical Information System for Efficient operations by streamlining processes.

03 GOAL

Update City Design Standards & Provisions insuring Infrastructure compliance for all buildings within the City jurisdiction



PUBLIC WORKS



PUBLIC WORKS

Staffing Plan

Public Works

Staffing Plan - Full Time Equivalent Positions

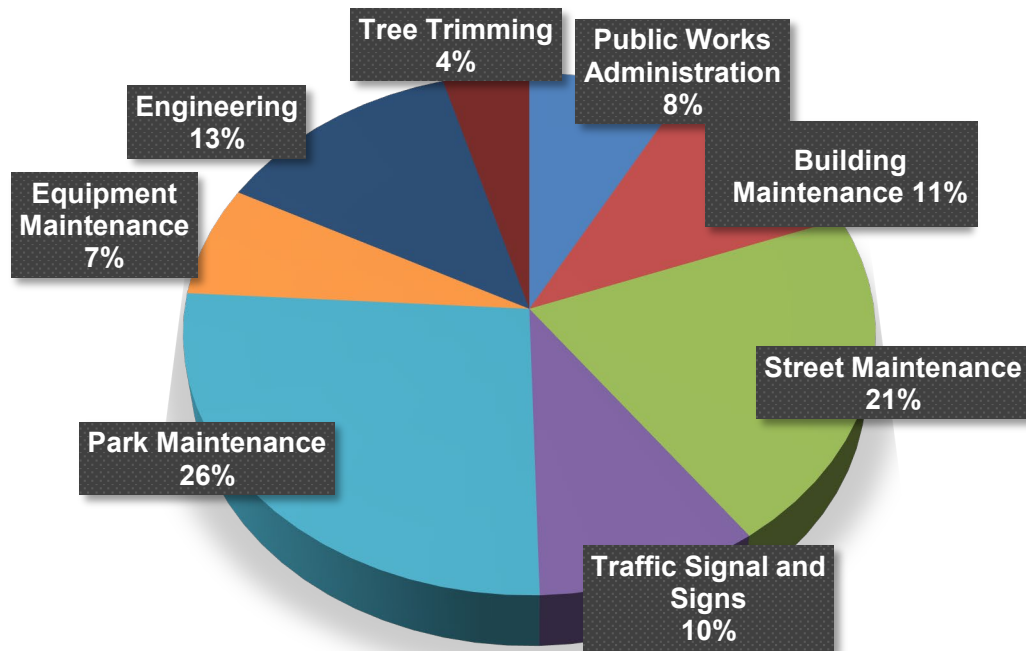
PUBLIC WORKS	FY18/19 Budgeted	FY 19/20 Budgeted	FY 20/21 Budgeted	FY 21/22 Budgeted	FY 22/23 Proposed	FY 23/24 Proposed
<u>Parks</u>						
Park Superintendent	1.00	1.00	1.00	1.00	-	-
* Park Maintenance Lead	2.00	2.00	2.00	2.00	2.00	2.00
Tree Trimmer II	2.00	2.00	2.00	2.00	2.00	2.00
Park Maintenance Worker II	3.00	3.00	3.00	3.00	3.00	3.00
** Park Maintenance Worker I	6.64	6.64	3.00	4.50	4.50	4.50
Total Parks	14.64	14.64	11.00	12.50	11.50	11.50
<u>Facilities</u>						
* Maintenance Painter	1.00	1.00	-	-	-	-
Senior Building Maintenance Worker	-	-	1.00	1.00	1.00	1.00
Sr. Maintenance Worker	1.00	1.00	1.00	1.00	-	-
Building Maintenance Worker	-	-	-	-	1.00	1.00
Building Maintenance Lead	1.00	1.00	1.00	1.00	1.00	1.00
Total Facilities	3.00	3.00	3.00	3.00	3.00	3.00
<u>Handy-Worker Program (CDBG)</u>						
Public Works Coordinator	1.00	1.00	1.00	1.00	1.00	1.00
* Home Improvement Leadperson	1.00	1.00	-	-	-	-
Home Improvement Maintenance Helper	1.00	1.00	1.00	1.00	1.00	1.00
Total Handy-Worker Program (CDBG)	3.00	3.00	2.00	2.00	2.00	2.00
* Vacant positions (frozen) due to COVID related budget shortfalls						
** Positions eliminated due to COVID related budget shortfalls						

PUBLIC WORKS

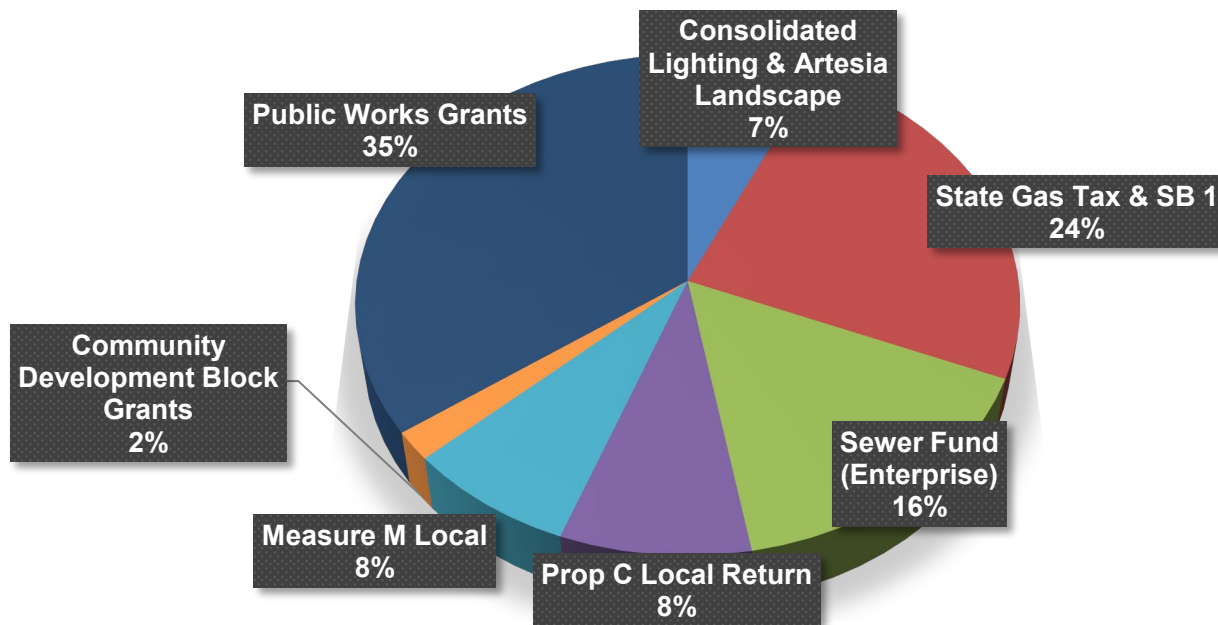
Staffing Plan

Public Works						
Staffing Plan - Full Time Equivalent Positions						
PUBLIC WORKS cont.	FY18/19 Budgeted	FY 19/20 Budgeted	FY 20/21 Budgeted	FY 21/22 Budgeted	FY 22/23 Proposed	FY 23/24 Proposed
<u>Streets & Engineering</u>						
* Director of Public Works	1.00	1.00	-	1.00	1.00	1.00
Assistant Director/City Engineer	-	-	-	-	1.00	1.00
Public Works Superintendent	-	-	-	-	1.00	1.00
Administrative Aide	-	-	1.00	1.00	-	-
Program Coordinator	-	-	-	-	1.00	1.00
* Administrative Management Analyst II	1.00	1.00	-	-	-	-
Administrative Analyst I	1.00	1.00	-	-	-	-
Administrative Analyst II	-	-	1.00	1.00	1.00	1.00
Principal Civil Engineer	1.00	1.00	1.00	1.00	-	-
Civil Engineer	-	-	-	-	1.00	1.00
* Street Maintenance Superintendent (Vacant)	1.00	1.00	-	-	-	-
Associate Engineer	2.00	2.00	2.00	2.00	1.00	1.00
Assistant Engineer	-	-	-	1.00	1.00	1.00
Electrical/Signal Technician II	1.00	1.00	1.00	1.00	1.00	1.00
Public Works Inspector	-	-	-	-	1.00	1.00
Public Work Lead	2.00	2.00	2.00	2.00	2.00	2.00
Electrical/Signal Technician I	1.00	1.00	1.00	1.00	1.00	1.00
Engineering Technician	1.00	1.00	1.00	1.00	1.00	1.00
Lead Equipment Mechanic	-	-	-	-	1.00	1.00
Equipment Mechanic	2.00	2.00	2.00	2.00	1.00	1.00
Heavy Equipment Operator	2.00	2.00	2.00	2.00	2.00	2.00
Street Traffic Painter	1.00	1.00	1.00	1.00	1.00	1.00
Street Sweeper Operator	2.00	2.00	2.00	2.00	2.00	2.00
Sewer Maintenance Worker	3.00	3.00	2.00	2.00	2.00	2.00
* Cement Finisher (Vacant)	1.00	1.00	-	-	-	-
** Secretary	1.00	1.00	-	-	1.00	1.00
* Engineering Aide	1.00	1.00	-	-	-	-
* Street Maintenance Workers	3.55	3.55	2.00	2.00	2.00	2.00
Graffiti Technician	1.00	1.00	1.00	1.00	1.00	1.00
Right-of-Way Worker	3.20	3.20	3.83	3.83	4.30	4.30
Intern	-	-	-	1.00	1.00	1.00
* Clerk Typist	0.68	0.68	-	-	-	-
Total Streets & Engineering	33.43	33.43	25.83	28.83	32.30	32.30
TOTAL PUBLIC WORKS	54.07	54.07	41.83	46.33	48.80	48.80
* Vacant positions (frozen) due to COVID related budget shortfalls						
** Positions eliminated due to COVID related budget shortfalls						

Public Works	Audited 2020-2021	Adopted 2021-2022	Proposed 2022-2023	Proposed 2023-2024
Public Works Administration	241,421	400,517	493,983	523,096
Building Maintenance Street	831,964	656,567	740,500	753,351
Maintenance	883,857	1,016,714	1,448,571	1,385,089
Traffic Signal and Signs	485,659	599,170	619,360	637,936
Park Maintenance	1,334,705	1,676,193	1,677,509	1,757,725
Equipment Maintenance	363,341	375,728	438,936	454,098
Engineering	461,343	602,184	808,341	851,992
Tree Trimming	238,109	234,809	281,850	293,630
Total Public Works	4,840,401	5,561,882	6,509,050	6,656,917



Special Revenue Funds Public Works	Audited 2020-2021	Adopted 2021-2022	Proposed 2022-2023	Proposed 2023-2024
Consolidated Lighting & Artesia Landscape	758,068	802,443	1,110,707	885,803
State Gas Tax & SB 1	3,061,721	4,208,018	6,108,847	3,115,597
Sewer Fund (Enterprise)	1,287,499	2,826,109	2,427,020	2,047,172
Prop C Local Return	596,118	3,384,103	4,087,947	1,091,228
Measure M Local	185,259	3,062,616	1,496,305	978,329
Community Development Block Grants	158,433	250,000	238,710	238,710
Public Works Grants	1,505,551	7,177,364	10,530,013	4,462,228
Total Public Works Special Revenue Funds	7,552,650	21,710,653	25,999,549	12,819,067





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COMMUNITY DEVELOPMENT DEPARTMENT

City of Gardena

The Community Development Department provides a variety of services. City Planning provides support to administer plans, programs, design guidelines and new legislation. The Economic Development Division is responsible for the attraction, retention, and expansion of businesses. The Building and Safety Division reviews construction plans to ensure they meet state building codes, issue permits, and provides inspections. The Code Enforcement and Animal Control Division ensure code compliance and investigate violations ensuring properties and activities are conducted in accordance with the City’s municipal code.

01 GOAL

Establish economic development programs to enhance business outreach, marketing, and investment, increasing communication and partnership with local businesses.

02 GOAL

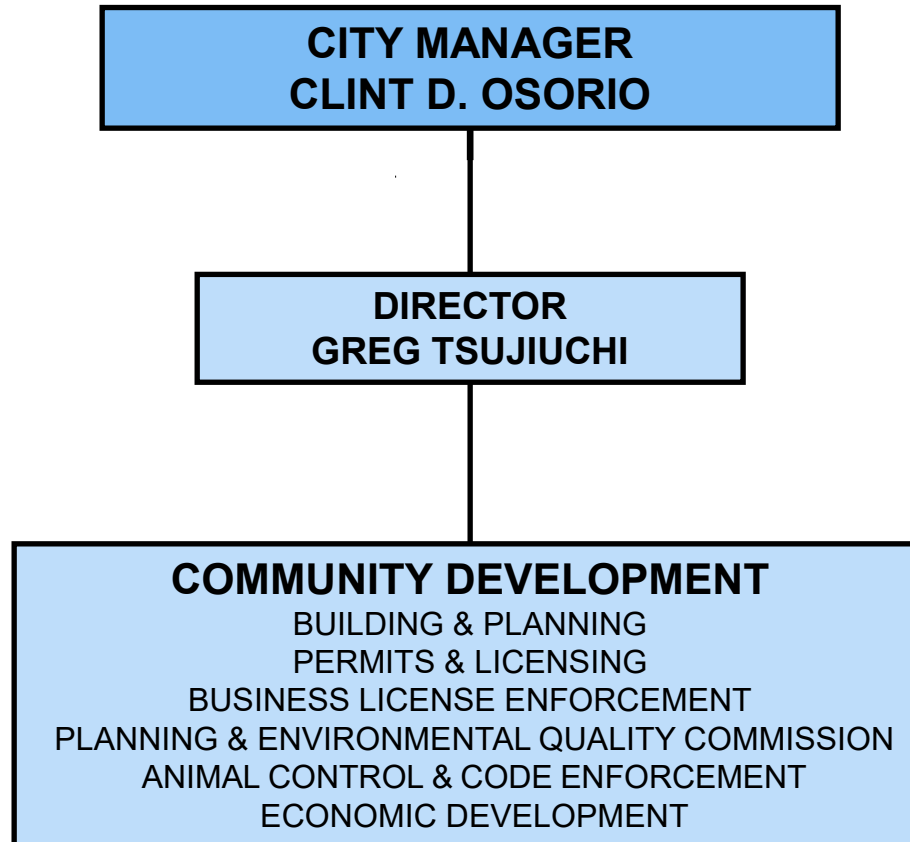
Expedite the building plan check process by providing online payment option for plan check fees, reducing customer wait time for plan check process.

03 GOAL

Maintain awareness and applicability of all new housing legislation to minimize any negative impacts to the City, increasing knowledge and proficiency of housing legislation.



COMMUNITY DEVELOPMENT



COMMUNITY DEVELOPMENT

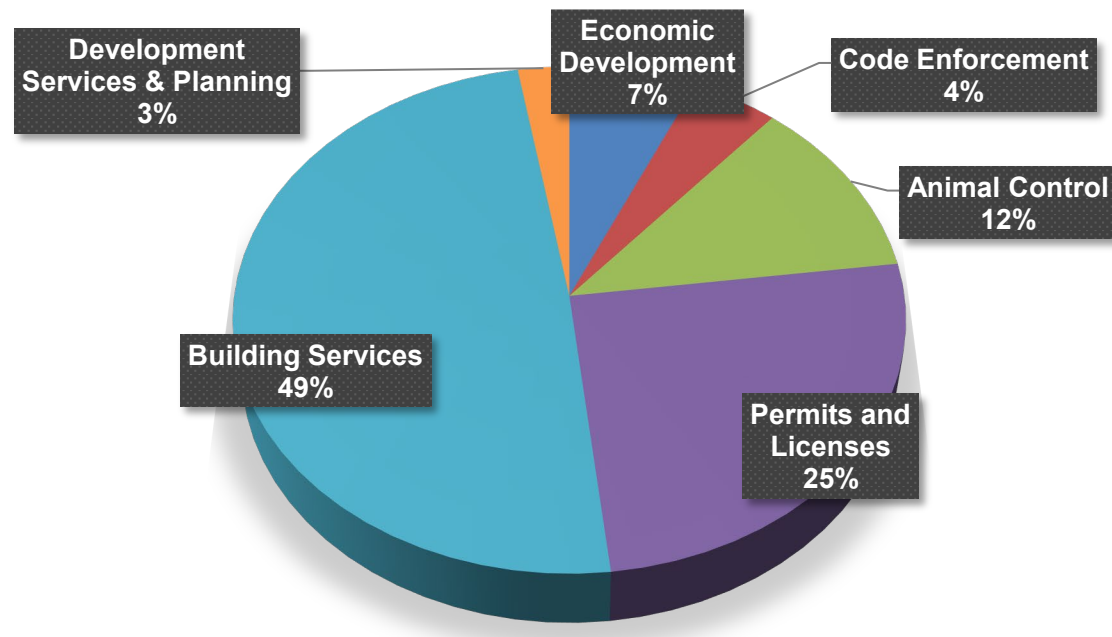
Staffing Plan

Community Development

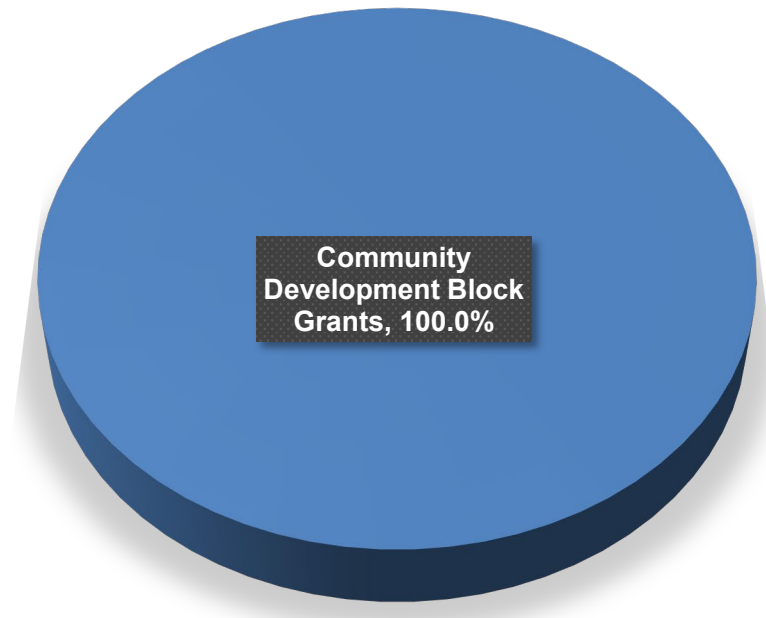
Staffing Plan - Full Time Equivalent Positions

<u>COMMUNITY DEVELOPMENT</u>	Budgeted FY18/19	Budgeted FY 19/20	Budgeted FY 20/21	Budgeted FY 21/22	Proposed FY 22/23	Proposed FY 23/24
Director of Community Development	-	-	1.00	1.00	1.00	1.00
* Administrative Services Manager	1.00	1.00	-	-	-	-
Economic Development Manager	1.00	1.00	1.00	1.00	1.00	1.00
* Administrative Aide (Vacant)	1.00	1.00	-	-	-	-
Customer Service Clerk I					0.60	0.60
Intern	-	-	-	0.34	-	-
* General Building Inspector	2.00	2.00	1.00	1.00	2.00	2.00
** Permit/Licensing Technician I	4.00	4.00	2.00	2.00	2.00	2.00
Permit/Licensing Technician II	1.00	1.00	1.00	1.00	2.00	2.00
Planning Assistant	2.00	2.00	1.00	-	1.00	1.00
Planning Commissioner (5)	-	-	-	-	-	-
Program Coordinator	-	-	-	-	1.00	1.00
Senior Clerk Typist (Vacant)	1.00	1.00	1.00	1.00	-	-
Senior Planner	1.00	1.00	1.00	2.00	1.00	1.00
Code Enforcement Officer	2.00	2.00	1.00	1.00	2.00	2.00
Community Service Officer	-	-	1.00	1.75	1.75	1.75
TOTAL COMMUNITY DEVELOPMENT	16.00	16.00	11.00	12.09	15.35	15.35
* Vacant positions (frozen) due to COVID related budget shortfalls						
** Positions eliminated due to COVID related budget shortfalls						

Community Development	Audited 2020-2021	Adopted 2021-2022	Proposed 2022-2023	Proposed 2023-2024
Economic Development	14,514	-	159,907	170,426
Code Enforcement	-	-	106,651	115,211
Animal Control	79,138	185,029	280,361	296,146
Permits and Licenses	432,334	617,764	583,168	641,324
Building Services	930,947	845,629	1,323,731	1,245,469
Development Services & Planning	129,487	30,720	65,565	68,565
Total Community Development	1,586,421	1,679,142	2,519,383	2,537,141



Special Revenue Funds Community Development	Audited 2020-2021	Adopted 2021-2022	Proposed 2022-2023	Proposed 2023-2024
Community Development Block Grants	123,458	163,378	156,000	156,000
SB 2 Planning Grant	58,283	169,006	100,000	-
Local Early Action Planning (LEAP) Grant	15,400	300,000	200,000	-
Total Community Development Special Revenue Funds	197,142	632,384	456,000	156,000



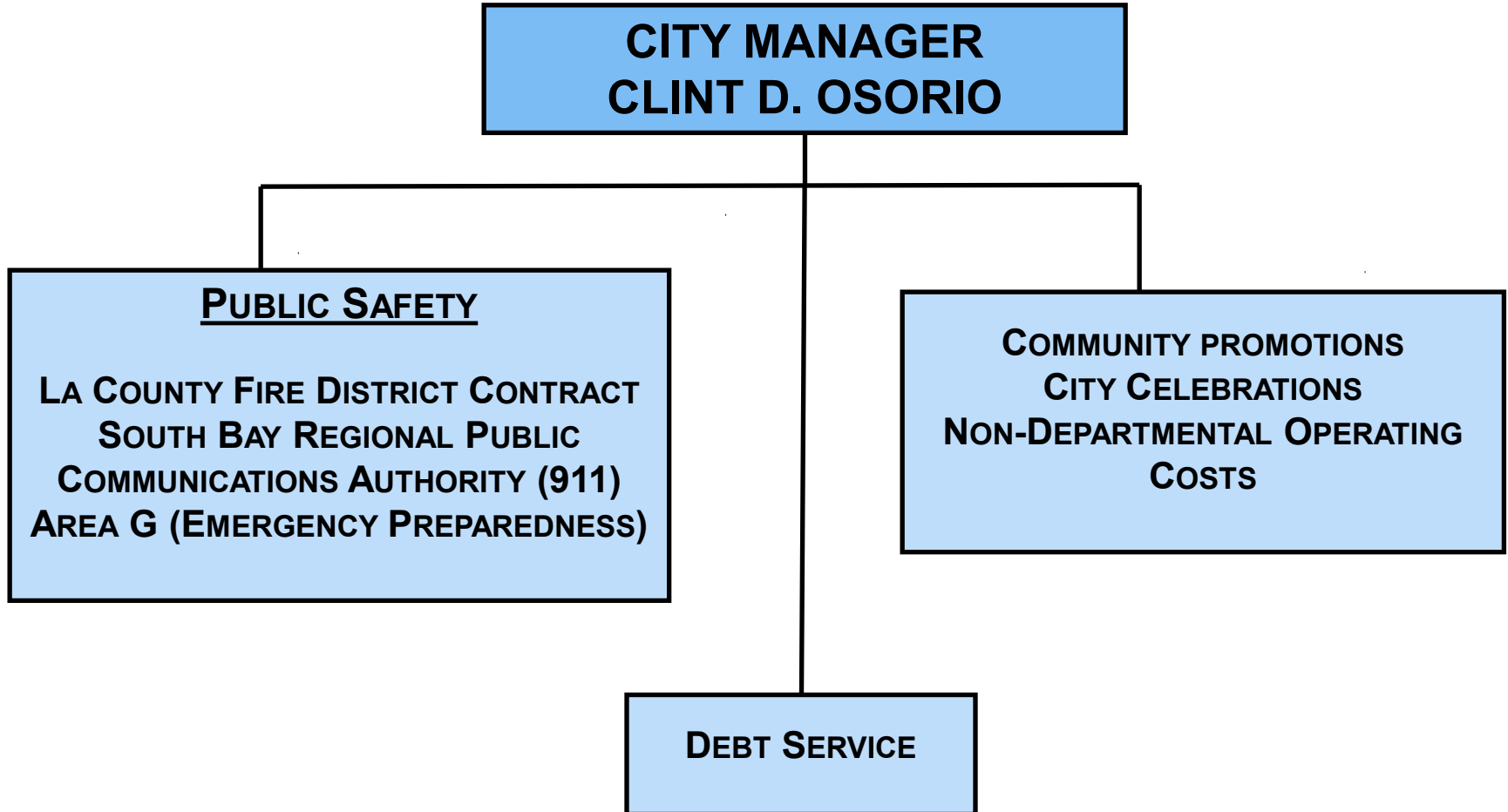


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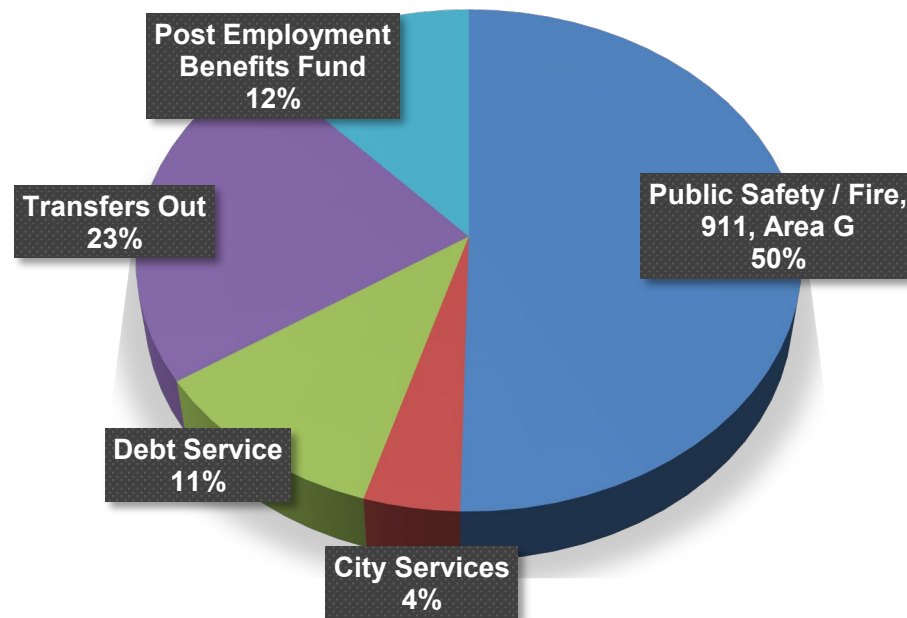


NON-DEPARTMENTAL

NON-DEPARTMENTAL



Non-Departmental	Audited 2020-2021	Adopted 2021-2022	Proposed 2022-2023	Proposed 2023-2024
Public Safety / Fire, 911, Area G	11,045,005	12,017,155	12,854,048	13,493,514
City Services	644,519	534,000	647,000	1,147,000
Debt Service	1,969,141	2,017,437	2,952,694	2,955,128
Transfers Out	7,894,784	8,870,425	8,697,147	6,012,543
Post Employment Benefits Fund	2,653,280	3,178,346	2,968,560	3,206,046
Total Non-Departmental	24,206,730	26,617,363	28,119,449	26,814,231





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GTRANS

City of Gardena

Providing transit service to the City of Gardena and surrounding communities for over 82 years, GTrans provides safe and reliable transportation to the communities we serve. Providing nearly 3 million trips annually using a fleet of alternatively-fueled, zero-emission buses, the service area extends to various cities in the South Bay. In addition GTrans operates a paratransit service for seniors and persons with disabilities.

01 GOAL

Identify and implement new service opportunities that will provide improved mobility for GTrans customers, and promote efficiencies within the design and operation of the service.

02 GOAL

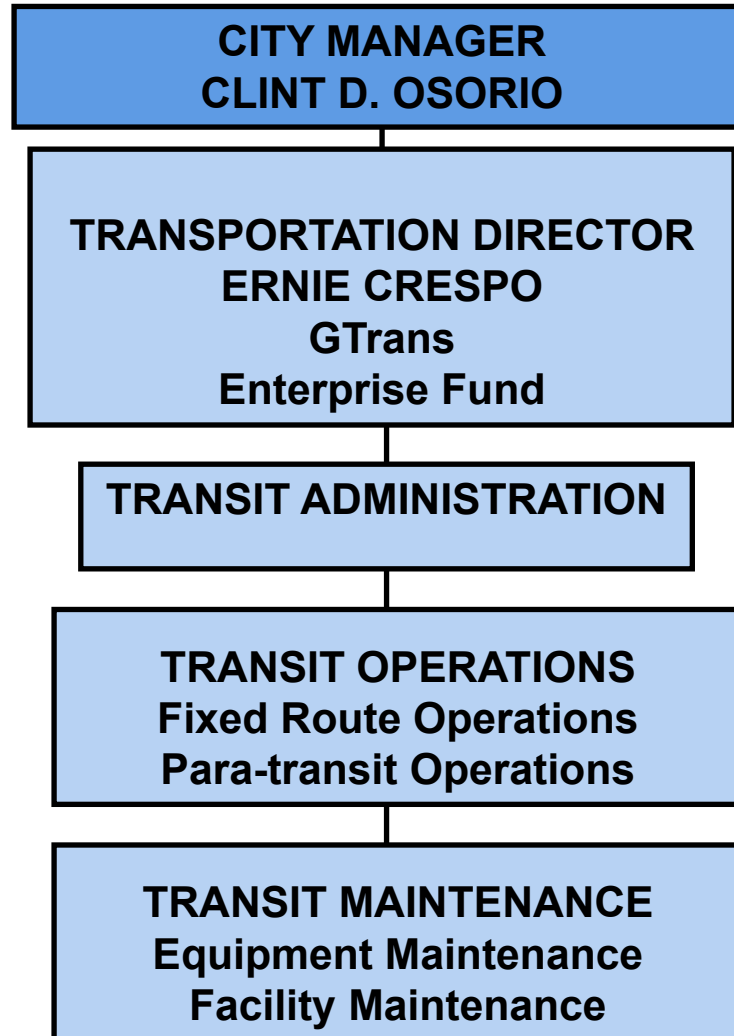
Develop and implement employee training programs to improve customer service, leadership and communication skill sets.

03 GOAL

Create infrastructure supporting Compressed Natural Gas fueling, charging of zero-emission battery electric buses and energy generation through installation of charging stations, solar panels and battery storage.



GTRANS



GTRANS

Staffing

Transportation Department

Staffing Plan - Full Time Equivalent Positions

TRANSPORTATION DEPARTMENT	Budgeted FY18/19	Budgeted FY 19/20	Budgeted FY 20/21	Budgeted FY 21/22	Proposed FY 22/23	Proposed FY 23/24
<u>Transit Administration</u>						
* Transportation Director	1.00	1.00	1.00	1.00	1.00	1.00
* Transit Administrative Officer	1.00	1.00	1.00	1.00	1.00	1.00
* Transit Operations Officer	1.00	1.00	1.00	1.00	1.00	1.00
* Human Resources Manager	0.60	0.60	0.60	0.60	0.60	0.60
Senior Human Resources Analyst	-	-	-	-	0.60	0.60
Human Resources Analyst	0.60	0.60	0.60	0.60	0.50	0.50
* Financial Services Manager	1.00	1.00	1.00	1.00	1.00	1.00
Transit Administration Supervisor	-	-	-	-	1.00	1.00
* Transportation Administrative Manager	1.00	1.00	-	-	-	-
* Administrative Analyst III	1.00	1.00	-	-	-	-
* Administrative Analyst II	-	-	1.00	1.00	1.00	1.00
* Information Technology Systems Analyst	1.00	1.00	1.00	1.00	1.00	1.00
* Senior Accountant Grants	0.90	0.90	0.90	1.00	1.00	1.00
* Administrative Analyst I	4.00	4.00	2.00	2.00	1.00	1.00
* Administrative Aide	2.00	2.00	3.00	3.00	2.00	2.00
Administrative Coordinator	-	-	-	-	1.00	1.00
Financial Services Technician	-	-	-	-	1.00	1.00
* Program Coordinator	-	-	-	-	1.00	1.00
Transit Marketing Coordinator	-	-	-	1.00	1.00	1.00
* Human Resources Coordinator	-	-	-	-	1.50	1.50
* Secretary	1.00	1.00	1.00	1.00	-	-
* Customer Service Clerk I	1.79	1.79	1.00	1.00	1.00	1.00
* Intern	-	-	-	-	1.50	1.50
Total Transit Administration	17.89	17.89	15.10	16.20	20.70	20.70
* Vacant positions (frozen) due to COVID related budget shortfalls						
** Positions eliminated due to COVID related budget shortfalls						

GTRANS

Staffing

Transportation Department

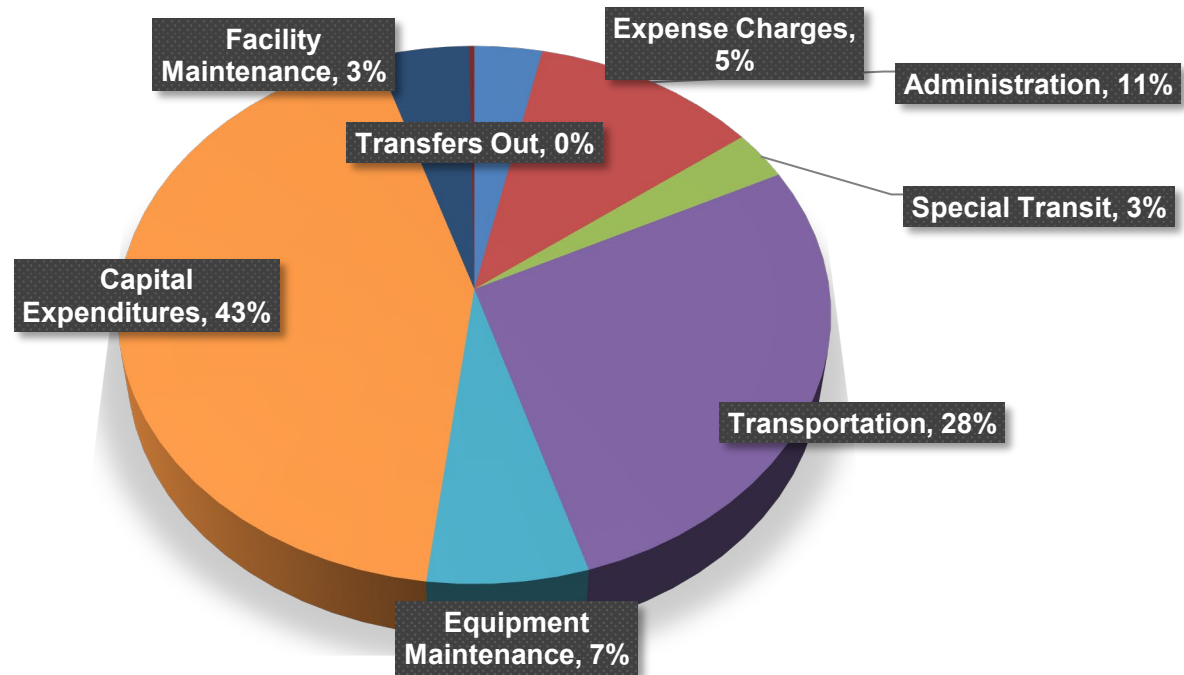
Staffing Plan - Full Time Equivalent Positions

	Budgeted FY18/19	Budgeted FY 19/20	Budgeted FY 20/21	Budgeted FY 21/22	Proposed FY 22/23	Proposed FY 23/24
TRANSPORTATION DEPARTMENT cont.						
<u>Transit Operations</u>						
* Transit Operations Manager	1.00	1.00	1.00	1.00	1.00	1.00
* Transit Training and Safety Supervisor	1.00	1.00	1.00	1.00	1.00	1.00
* Transit Operations Training Coordinator	-	-	-	-	1.00	1.00
* Transit Planning & Scheduling Analyst Senior	-	-	1.00	1.00	1.00	1.00
Transportation Operations Supervisor	-	-	-	-	1.00	1.00
* Route Supervisors	9.00	9.00	11.00	11.00	11.00	11.00
* Bus Operators	88.00	88.00	72.91	72.91	74.80	76.80
* Paratransit Dispatcher	1.00	1.00	1.00	1.00	1.00	1.00
* Paratransit Drivers	5.46	5.46	5.46	5.46	5.46	6.30
Relief Bus Operator Trainees	-	-	-	-	2.00	2.00
Relief Bus Operators	5.00	5.00	8.41	8.41	13.50	13.50
Total Transit Operations	110.46	110.46	101.78	101.78	112.76	115.60
<u>Transit Maintenance</u>						
* Transit Maintenance Manager	1.00	1.00	1.00	1.00	1.00	1.00
* Transit Maintenance Coordinator	-	-	-	-	1.00	1.00
* Fleet Maintenance Supervisor	1.00	1.00	1.00	1.00	1.00	1.00
* Facilities Maintenance Supervisor	1.00	1.00	1.00	1.00	1.00	1.00
* Administrative Management Analyst I	1.00	1.00	-	-	-	-
* Transit Equipment Mechanics - Lead	2.00	2.00	2.00	2.00	2.00	2.00
* Transit Equipment Mechanics	8.00	8.00	7.00	7.00	7.00	7.00
* Transit Parts/Storeroom Coordinator	1.00	1.00	1.00	1.00	2.00	2.00
* Maintenance Coordinator	-	-	-	1.00	1.00	1.00
Sr. Building Maintenance Worker	1.00	1.00	1.00	1.00	1.00	1.00
* Sr. Transit Utility Specialist	1.00	1.00	2.00	2.00	2.00	2.00
* Apprentice Mechanic	2.00	2.00	-	-	1.00	1.00
* Equipment Utility Worker II	1.00	1.00	1.00	1.00	1.00	1.00
* Equipment Utility Worker I	5.00	5.00	3.00	3.00	5.00	5.00
Total Transit Maintenance	25.00	25.00	20.00	21.00	26.00	26.00
TOTAL TRANSPORTATION	153.35	153.35	136.88	138.98	159.46	162.30

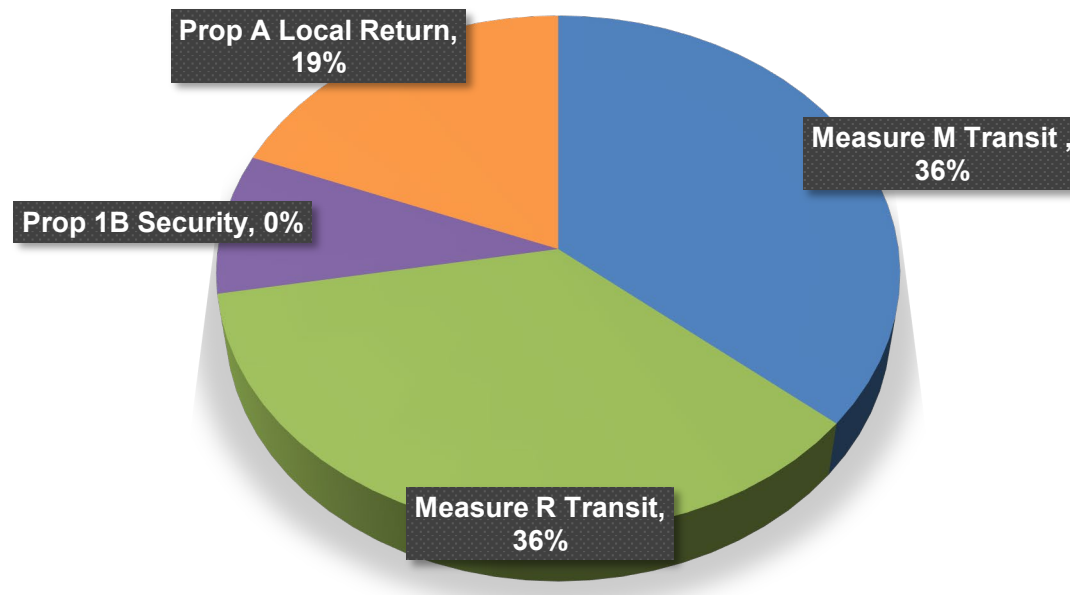
* Vacant positions (frozen) due to COVID related budget shortfalls

** Positions eliminated due to COVID related budget shortfalls

GTrans	Audited 2020-2021	Adopted 2021-2022	Proposed 2022-2023	Proposed 2023-2024
Facility Maintenance	655,755	907,083	967,275	1,025,034
Administration	7,462,191	4,819,143	5,429,504	5,633,183
Special Transit	488,079	740,582	1,087,178	1,453,529
Transportation	9,985,876	12,421,810	13,242,836	13,769,698
Equipment Maintenance	2,365,722	2,818,375	3,195,737	3,329,170
Capital Expenditures	-	26,899,018	9,080,386	22,122,575
Expense Charges	2,305,675	2,389,033	2,305,675	2,305,675
Transfers Out	199,458	-	128,450	129,671
Total GTrans	23,462,756	50,995,044	35,437,041	49,768,535



Special Revenue Funds GTrans	Audited 2020-2021	Adopted 2021-2022	Proposed 2022-2023	Proposed 2023-2024
Measure M Transit	1,824,788	3,830,656	2,864,928	2,864,928
GTrans OPEB Trust Fund	-	-	-	-
Measure R Transit	1,843,446	2,372,061	2,872,168	2,872,168
Prop 1B Capital	-	-	-	697,000
Prop 1B Security	-	38,122	100,000	-
Prop A Local Return	938,759	1,122,325	1,491,878	1,507,058
Total GTrans Special Revenue Funds	4,606,993	7,363,164	7,328,974	7,941,154





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CAPITAL IMPROVEMENT PROJECTS (CIP), DEBT SERVICE, and INTERNAL SERVICE FUNDS



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CAPITAL IMPROVEMENT PROJECTS (CIP) PROPOSED BUDGET FY 2022/2023 & 2023/2024

CAPITAL IMPROVEMENT PROJECTS (CIP)

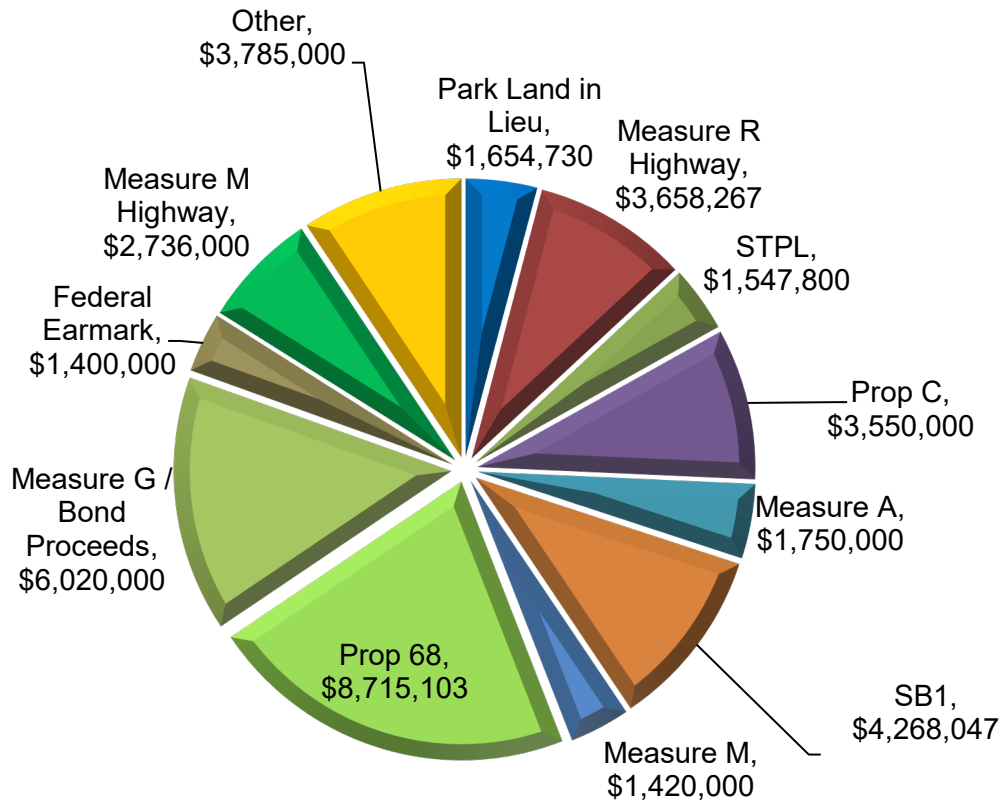


	<u>FY 2022-2023</u>	<u>FY 2023-2024</u>
PARK/FACILITY IMPROVEMENTS	\$ 20,261,114	\$ 6,917,000
City Parks, playgrounds, facility grounds and public parkways		
STREETS, SEWER & STORMWATER IMPROVEMENTS	\$ 20,243,833	\$ 8,875,000
Maintain City streets, sanitary sewers, storm drain systems, sidewalks, curbs, crosswalks, and signs		
Maintain and control City traffic signals		
Mechanical maintenance of City vehicle and equipment		
Ensure compliance with State mandated safety and air quality program		
CAPITAL IMPROVEMENT PROJECTS TOTAL	\$ 40,504,947	\$ 15,792,000

Capital Improvement Projects Fiscal Year 2022-2023

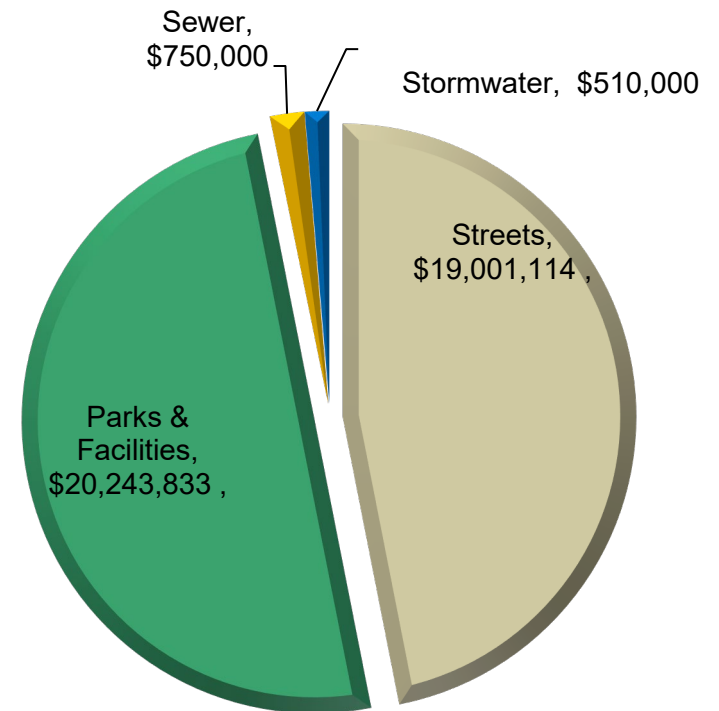
CAPITAL REVENUE

... Where the money comes from ...



CAPITAL EXPENDITURES

... Where the money goes...



CAPITAL IMPROVEMENT PROJECTS – PARKS / FACILITIES

FISCAL YEAR 2022-2023

<u>JOB NO.</u>	<u>PROJECT DESCRIPTION</u>		
820 (c)	Mas Fukai Park Rehabilitation - \$1,000,000 Develop construction document/PS&E and pursue grant opportunity for construction phase.	509 (c)	Fire Station No. 158 Roof Replacement (Ceiling Repair Phase) - \$654,000 Repair water damaged ceiling tiles, lighting, hazardous material abatement, and all other incidental work.
961 (c)	Bell Park Rehabilitation Program – \$149,730 Replace picnic shelters, bleachers, fencing, netting, asphalt; renovate building, courts and restroom.	520 (n)	Rowley Park Gymnasium HVAC Upgrade – 170,000 Replace three (3) existing Carrier/BDP gas electric package units.
963 (c)	Rec Facilities Landscaping & Outdoor Improvements - \$75,000 Irrigation, landscaping, parking lot improvements.	521 (n)	Public Works Yard Workshop HVAC Upgrade - \$50,000 Install a new gas electric package unit, rooftop duct, lashings, curbs and plenum drops.
966 (c)	Thornburg Park Improvements - \$150,000 Renovate southern portion of the park to add recreation space and opportunities.	522 (n)	Nakaoka Community Center HVAC Upgrade - \$40,000 Install two new specialized condenser coils on 40-ton existing condenser.
967 (c)	Multi-Park Improvements/Facility Master Plan Study - \$1,170,000 Develop a master plan for parks and facilities. Renovate/repair recreation facilities	528 (n)	Civic Center Lighting Improvement – \$400,000 Installation of new lighting and landscape improvements
978 (c)	Gardena Community Aquatic & Senior Center - \$14,920,000 Demo existing facilities and construct new aquatic and senior community center.	529 (n)	Park Electronic Signage – \$250,000 Installation of new electronic signs for several parks
505 (c)	Rosecrans Community Center - \$1,000,000 Feasibility and conceptual design phase.	530 (n)	Rowley Park Basketball Court Rehabilitation – \$215,103 Renovate/repair the existing basketball court

(c) – Continuing project from previous years,
(n) – New project proposed for fiscal year 2022-2023

Overall Impact on Operating Budget

There is no financial impact to the General Fund for these projects.
These improvements in the City will benefit both citizens and visitors in the community. This will provide a safer place, as well as make the City more inviting to people visiting or wanting to move into the community.

CAPITAL IMPROVEMENT PROJECTS – STREETS, SEWER & STORMWATER
FISCAL YEAR 2022-2023

<u>JOB NO.</u>	<u>PROJECT DESCRIPTION</u>		
930 (c)	Vermont Ave Traffic Signal Improvements - \$1,270,000 Improve traffic signals at Vermont Ave. and Rosecrans Ave., and Redondo Beach Blvd.	972 (c)	New Marked Crosswalk with Pedestrian Hybrid Beacon (PHB) on Vermont Ave & 133th St. - \$167,800 Install new crosswalk with PHB to improve pedestrian and vehicle safety.
935 (c)	Artesia Blvd Signal Improvements - \$3,910,000 Improve traffic signals between Western Ave. and Vermont Ave. to address existing and future traffic conditions. Scope and budget amended to include landscape and pavement improvements.	973 (c)	New Traffic Signal at Vermont & Magnolia - \$128,267 Traffic signal improvement to create a safer, more efficient way for vehicles to cross Vermont Ave. and enhance traffic flow.
944 (c)	170th St Improvements (Normandie to Vermont) - \$700,000 Rehabilitate asphalt pavement, striping and pedestrian safety as needed.	985 (c)	Budlong Ave (El Segundo to RBB) and Halldale Ave (135th to El Segundo) Street Improvements - \$1,490,000 Rehabilitate asphalt pavement, striping and pedestrian safety as needed.
945 (c)	Redondo Beach Blvd Street Improvements - \$2,736,000 Improve traffic flow along Redondo Beach Blvd. from Crenshaw Blvd. to Vermont Ave; new medians, improve signal, signing & striping, rehabilitate concrete and pavements.	987 (c)	Local Street Improvements FY 2020/2021 - \$1,000,000 Rehabilitate various local residential streets asphalt pavement, striping and pedestrian safety as needed.
959 (c)	Vermont Ave Improvements (Artesia to Gardena) - \$800,000 Rehabilitate asphalt pavement, striping, and improve pedestrian safety as needed.	988 (c)	Crenshaw Blvd Improvements (Rosecrans to El Segundo) - \$250,000 Rehabilitate various local residential streets asphalt pavement, striping and pedestrian safety as needed. Multi-year project and current budget for design phase only.
		990 (c)	Sewer Master Plan - \$350,000 Assessment of hydraulic capacity of the City's major sewers and prioritized set of Capital Improvement Projects to

(c) – Continuing project from previous years
(n) – New project proposed for fiscal year 2022-2023

Overall Impact on Operating Budget

There is no financial impact to the General Fund for these projects. These improvements in the City will benefit both citizens and visitors in the community. This will provide a safer place, as well as make the City more inviting to people visiting or wanting to move into the community.

CAPITAL IMPROVEMENT PROJECTS – STREETS, SEWER & STORMWATER

FISCAL YEAR 2022-2023

address existing and projected future capacity requirements including GIS implementation.

<u>JOB NO.</u>	<u>PROJECT DESCRIPTION</u>		
992 (c)	Van Ness Ave Street Improvements (RBB to Marine) - \$800,000 Rehabilitate asphalt pavement, striping and pedestrian safety as needed.	999 (c)	Storm Drain Debris Screen FY 2021/2022 - \$165,000 Continue implementing the Statewide Trash Provisions through multi-phase iterative approach. Install the Full Capture System Equivalency (FCSE) screens by year 2025 to all City jurisdictional catch basins.
993 (c)	Pedestrian Safety Improvements FY 2020/2021 - \$380,000 Remove and replace damaged curb, gutter, sidewalk, and access ramps at various locations.	507 (c)	Citywide Wayfinding/Entry Sign Program - \$135,000 Install new and replace existing Citywide wayfinding signs to help direct drivers on city streets to city facilities such as parks, fire stations, and City Hall.
994 (c)	Local Street Improvements FY 2021/2022 - \$1,893,047 Rehabilitate various local residential streets asphalt pavement, striping and pedestrian safety as needed.	506 (n)	Gardena Decorative Street Lighting - \$250,000 Convert existing street lights to SCE approved decorative lights on Gardena Blvd between Vermont and Western and 162 nd Street from Denker Ave to Western Ave.
996 (c)	Vermont Ave Street Improvements (Rosecrans to 135th) - \$540,000 Rehabilitate asphalt pavement, striping, and improve pedestrian safety as needed.	513 (n)	Pedestrian Safety Improvements FY 2022/2023 - \$356,000 Remove and replace damaged curb, gutter, sidewalk, and access ramps at various locations.
998 (c)	Storm Drain Debris Screen FY 2020/2021 - \$145,000 Continue implementing the Statewide Trash Provisions through multi-phase iterative approach. Install the Full Capture System Equivalency (FCSE) screens by year 2025 to all City jurisdictional catch basins.	514 (n)	Local Street Improvements FY 2022/2023 - \$1,775,000 Rehabilitate various local residential streets asphalt pavement, striping and pedestrian safety as needed.
		515 (n)	Street Sweeping Truck Replacement - \$500,000 Replace the existing street sweeping truck that has exceeded its life expectancy.

(c) – Continuing project from previous years

(n) – New project proposed for fiscal year 2022-2023

Overall Impact on Operating Budget

There is no financial impact to the General Fund for these projects.

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CAPITAL IMPROVEMENT PROJECTS – STREETS, SEWER & STORMWATER

FISCAL YEAR 2022-2023

JOB NO. **PROJECT DESCRIPTION**

516 (n) Storm Drain Debris Screen FY 2022/2023 - \$200,000
Continue implementing the Statewide Trash Provisions through multi-phase iterative approach. Install the Full Capture System Equivalency (FCSE) screens by year 2025 to all City jurisdictional catch basins.

517 (n) Intelligent Transportation System (ITS) Master Plan - \$100,000
Development of citywide traffic communication network and signal system improvements that will provide the foundation for future smart city solutions and prioritize CIP improvements.

518 (n) County Regional Traffic Signal Synchronization Program (TSSP) on East Rosecrans Ave - \$20,000
A multi-jurisdictional project through the County of Los Angeles Project TSSP. The East Rosecrans Ave corridor project from Ocean Gate Ave in the City of Hawthorne to Vermont Ave in the City of Gardena. Agencies are required to provide 20% matching funds and Gardena is anticipating four intersections.

519 (n) County Regional Traffic Signal Synchronization Program (TSSP) on Redondo Beach Blvd - \$2000,000
A multi-jurisdictional project through the County of Los Angeles Project TSSP. The Redondo Beach Blvd corridor project from Artesia Blvd in the City of Redondo Beach to Vermont Ave in the City of Gardena. Agencies are required to provide 20% matching funds and the Crenshaw Blvd is the only participated intersection by Gardena due to City's its own project on RBB, JN #945.

(c) – Continuing project from previous years
(n) – New project proposed for fiscal year 2022-2023

Overall Impact on Operating Budget

There is no financial impact to the General Fund for these projects.

These improvements in the City will benefit both citizens and visitors in the community. This will provide a safer place, as well as make the City more inviting to people visiting or wanting to move into the community.

CAPITAL IMPROVEMENT PROGRAM FISCAL YEAR 2022-2023 FUNDING SUMMARY

FUNDING SOURCE		STREETS, SEWER & STORMWATER IMPROVEMENTS	PROJECT COST
Measure R Highway	#930 (c)	Vermont Ave Traffic Signal Improvement	1,270,000
	#935 (c)	Artesia Blvd. Street Improvements (Western to Vermont)	2,260,000
	#973 (c)	New Traffic Signal at Vermont/Magnolia	128,267
		Measure R Highway - Total	3,658,267
Measure M Highway	#945 (c)	RBB Street Improvements (Crenshaw to Vermont)	2,736,000
STPL	#944 (c)	170th Street Improvements - Normandie to Vermont	680,000
	#959 (c)	Vermont Ave Improvements - Artesia to Gardena	700,000
	#972 (c)	New Marked Crosswalk with PHB on Vermont/133 St.	167,800
		STPL - Total	1,547,800
SB 821 (TDA)	#993 (c)	Pedestrian Safety Improvements FY 2021-2022	80,000
	#513 (n)	Pedestrian Safety Improvements FY 2022-2023	56,000
		SB 821 (TDA) - Total	136,000
Prop C	#935 (c)	Artesia Blvd. Street Improvements (Western to Vermont)	1,650,000
	#985 (c)	Budlong Ave (135th to RBB) & Halldale Ave (135th to El Segundo) Street Improvements	1,000,000
	#992 (c)	Van Ness Ave St Improvements - RBB to Marine	800,000
	#996 (c)	Vermont Ave St Improvements - Rosecrans to 135th St	100,000
		Prop C - Total	3,550,000
Gas Tax	#507 (c)	Citywide Wayfinding Program	135,000
	#514 (n)	Local Street Improvements 2022-2023	400,000
	#515 (n)	Street Sweeping Truck Purchase	100,000
		Gas Tax - Total	635,000
Measure M Local	#944 (c)	170th Street Improvements - Normandie to Vermont	20,000
	#959 (c)	Vermont Ave Street Improvements - Artesia to Gardena	100,000
	#985 (c)	Budlong Ave (135th to RBB) & Halldale Ave (135th to El Segundo) Street Improvements	490,000
	#988 (c)	Crenshaw Blvd St. Improvements - Rosecrans to El Segundo	250,000
	#996 (c)	Multi-Year Vermont Ave St Improvements - Rosecrans to 135th St	240,000
	#517 (n)	Intelligent Transportation System (ITS) Master Plan	100,000
	#518 (n)	County Regional TSSP on Rosecrans	200,000
	#519 (n)	County Regional TSSP on RBB	20,000
		Measure M - Total	1,420,000
SB 1	#987 (c)	Local Street Improvements 2020-2021 - Various	1,000,000

CAPITAL IMPROVEMENT PROGRAM FISCAL YEAR 2022-2023 FUNDING SUMMARY

	#994 (c)	Local Street Improvements 2021-2022 - Various	1,893,047		
	#514 (n)	Local Street Improvements 2022-2023	1,375,000		
			SB 1 - Total	4,268,047	\$4,268,047
Measure R Local	#993 (c)	Pedestrian Safety Improvements FY 2021-2022	300,000		
	#996 (c)	Vermont Ave St Improvements - Rosecrans to 135th St	200,000		
	#513 (n)	Pedestrian Safety Improvements FY 2022-2023	300,000		
			Measure M Local - Total	800,000	\$800,000
Sewer Fund	#990 (c)	Sewer Master Plan	350,000		
	#515 (n)	Street Sweeping Truck Purchase	400,000		
			Sewer Fund - Total	750,000	\$750,000
Measure W	#998 (c)	Storm Drain Debris Screen FY 2020-2021	145,000		
	#999 (c)	Storm Drain Debris Screen FY 2021-2022	165,000		
	#516 (n)	Storm Drain Debris Screen FY 2022-2023	200,000		
			Measure W - Total	510,000	\$510,000
Lighting District	#506 (n)	Gardena Decorative Street Lighting	250,000		\$250,000
STREETS, SEWER & STORMWATER IMPROVEMENTS			SUBTOTAL		\$20,261,114
FUNDING SOURCE		PARK/FACILITY IMPROVEMENTS			PROJECT COST
Park Land in Lieu	#820 (c)	Mas Fukai Park Improvements	1,000,000		
	#961 (c)	Bell Park Rehabilitation Program	149,730		
	#963 (c)	Recreation Facilities Landscape and Outdoor Improvements	75,000		
	#966 (c)	Thornburg Park Improvement	150,000		
	#967 (c)	Multi-Park Improvements/Facility Master Plan Study	70,000		
	#520 (n)	Rowley Park Gymnasium HVAC Upgrade	170,000		
	#522 (n)	NCC HVAC Upgrade	40,000		
			Park Land in Lieu - Total	1,654,730	\$1,654,730
Measure A	#967 (c)	Multi-Park Improvements/Facility Master Plan Study	1,100,000		
	#528 (n)	Civic Center Lighting Improvements	400,000		
	#529 (n)	Park Electronic Signage	250,000		
			Measure A - Total	1,750,000	\$1,750,000
Prop 68	#530 (n)	Rowley Park Basketball Court Rehabilitation	215,103		
	#978 (c)	Gardena Community Aquatic & Senior Center	8,500,000		

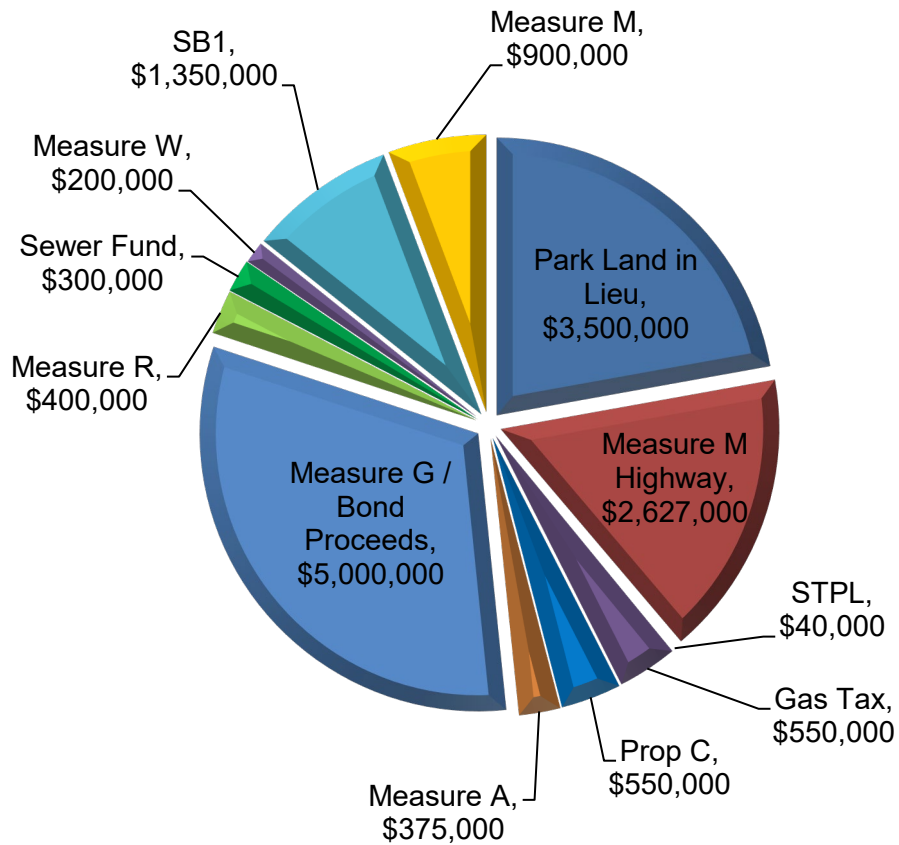
CAPITAL IMPROVEMENT PROGRAM FISCAL YEAR 2022-2023 FUNDING SUMMARY

			<i>Prop 68 - Total</i>	<u>8,715,103</u>	\$8,715,103
Bond Proceeds / Measure G	#978 (c)	Gardena Community Aquatic & Senior Center		5,020,000	
	#505 (c)	Rosecrans Community Center		<u>1,000,000</u>	
			<i>General Fund / Measure G - Total</i>	<u>6,020,000</u>	\$6,020,000
Federal Earmarks	#978 (c)	Gardena Community Aquatic & Senior Center		1,400,000	\$1,400,000
Deferred Maintenance Fund	#509 (c)	Fire Station No. 158 Roof Replacement		654,000	
	#521 (n)	PW Yard Workshop Hvac Upgrade		<u>50,000</u>	
			<i>Deferred Maintenance Fund - Total</i>	<u>704,000</u>	\$704,000
			PARK/FACILITY IMPROVEMENTS	SUBTOTAL	\$20,243,833
			CIP- FISCAL YEAR 2022-2023	TOTAL	\$40,504,947

Capital Improvement Projects Fiscal Year 2023-2024

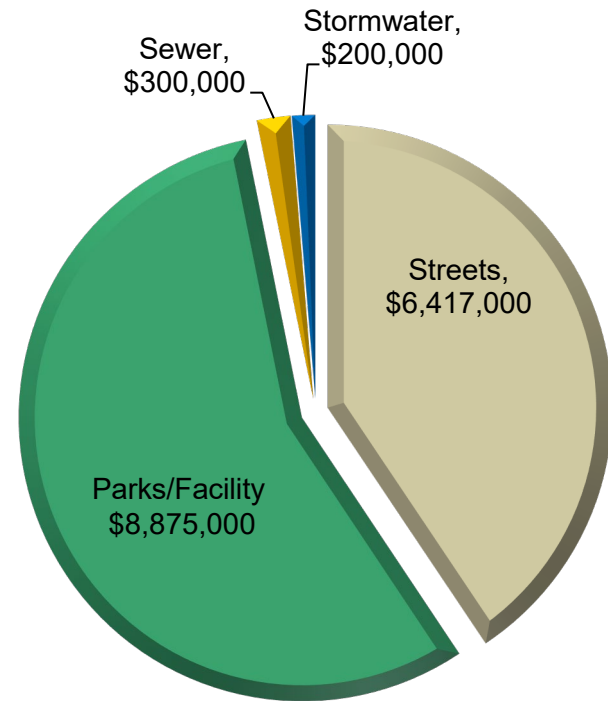
CAPITAL REVENUE

... Where the money comes from ...



CAPITAL EXPENDITURES

... Where the money goes...



CAPITAL IMPROVEMENT PROJECTS – PARKS / FACILITIES
FISCAL YEAR 2023-2024

<u>JOB NO.</u>	<u>PROJECT DESCRIPTION</u>		
820 (c)	Mas Fukai Park Rehabilitation - \$300,000 Replace playground equipment; Replace basketball standards and handball wall, bleachers, fencing, asphalt; renovate restrooms; replace picnic shelter. (Combined with JN 961)	501 (n)	City Hall Roof Rehabilitation - \$199,964 Lead and asbestos abatement, repair of existing and additional drainage systems, and new curb openings; installation of all new flashings and skirts; and repair and seal of all edges, joints, transitions, etc.
961 (c)	Bell Park Rehabilitation Program – \$268,730 Replace picnic shelters, bleachers, fencing, netting, asphalt; renovate building, courts and restroom	502 (n)	Nakaoka Community Center Roof Rehabilitation - \$235,222 Lead and asbestos abatement, removal and disposal of existing materials; repair of existing and additional drainage systems, and new curb openings; installation of all new flashings and skirts; and repair and seal of all edges, joints, transitions, etc.
963 (c)	Rec Facilities Landscaping & Outdoor Improvements - \$75,000 Irrigation, landscaping, parking lot improvements		
966 (c)	Thornburg Park Improvements - \$150,000 Renovate southern portion of the park to add recreation space and opportunities	505 (n)	Community Project - \$3,500,000 Acquire and renovate a building for community and senior programs
967 (c)	Multi-Park Improvements - \$75,000 Renovate/repair recreation facilities		
968 (c)	Rowley Park Baseball Diamond Restroom Rehabilitation - \$225,000 Replace or Rehabilitate Rowley Park Diamond #1 Restroom		

(c) – Continuing project from previous years,
(n) – New project proposed for fiscal year 2021-2022

Overall Impact on Operating Budget

There is no financial impact to the General Fund for these projects.
These improvements in the City will benefit both citizens and visitors in the community. This will provide a safer place, as well as make the City more inviting to people visiting or wanting to move into the community.

CAPITAL IMPROVEMENT PROJECTS – STREETS, SEWER & STORMWATER

FISCAL YEAR 2023-2024

<u>JOB NO.</u>	<u>PROJECT DESCRIPTION</u>		
945 (c)	Redondo Beach Blvd Street Improvements - \$2,627,000 Improve traffic flow along Redondo Beach Blvd. from Crenshaw Blvd. to Vermont Ave; new medians, improve signal, signing & striping, rehabilitate concrete and pavements.	527 (n)	Pedestrian Safety Improvements FY 2023/2024 - \$440,000 Remove and replace damaged curb, gutter, sidewalk, and access ramps at various locations.
523 (n)	Storm Drain Master Plan - \$300,000 Assessment of hydraulic capacity of the City's major storm drains and prioritized set of Capital Improvement Projects to address existing and projected future capacity requirements including GIS implementation.		
524 (n)	Storm Drain Debris Screen FY 2023/2024 - \$200,000 Continue implementing the Statewide Trash Provisions through multi-phase iterative approach. Install the Full Capture System Equivalency (FCSE) screens by year 2025 to all City jurisdictional catch basins.		
525 (n)	Local Street Improvements FY 2023/2024 - \$2,450,000 Rehabilitate various local residential streets asphalt pavement, striping and pedestrian safety as needed.		
526 (c)	Normandie Ave (Artesia to 177th), Cassidey St (Normandie to Vermont) and Vermont Ave (177th to 182nd) Improvements - \$900,000 Rehabilitate asphalt pavement, striping and pedestrian safety as needed.		

(c) – Continuing project from previous years

(n) – New project proposed for fiscal year 2023-2024

Overall Impact on Operating Budget

There is no financial impact to the General Fund for these projects.

These improvements in the City will benefit both citizens and visitors in the community. This will provide a safer place, as well as make the City more inviting to people visiting or wanting to move into the community.

CAPITAL IMPROVEMENT PROGRAM FISCAL YEAR 2023-2024 FUNDING SUMMARY

FUNDING SOURCE		STREETS, SEWER & STORMWATER IMPROVEMENTS	PROJECT COST
Measure M Highway	#945 (c)	RBB Street Improvements (Crenshaw to Vermont)	2,627,000
			\$2,627,000
Sewer Fund	#523 (n)	Storm Drain Master Plan	300,000
			\$300,000
Measure W	#524 (n)	Storm Drain Debris Screen FY 2023-2024	200,000
			\$200,000
Gas Tax	#525 (n)	Local Street Improvements 2023-2024	550,000
			\$550,000
SB 1	#525 (n)	Local Street Improvements 2023-2024	1,350,000
			\$1,350,000
Prop C	#525 (n)	Local Street Improvements 2023-2024	550,000
			\$550,000
Measure R Local	#526 (n)	Normandie (Artesia to 177th), Cassidy (Normandie to Vermont) and Vermont (177th to 182nd) Street Improvements	400,000
			\$400,000
Measure M Local	#526 (n)	Normandie (Artesia to 177th), Cassidy (Normandie to Vermont) and Vermont (177th to 182nd) Street Improvements	500,000
	#527 (n)	Pedestrian Safety FY 2023-2024	400,000
		Measure M Local - Total	900,000
SB 821 (TDA)	#527 (n)	Pedestrian Safety Improvements FY 2023-2024	40,000
			\$40,000
		STREETS, SEWER & STORMWATER IMPROVEMENTS	SUBTOTAL
			\$6,917,000
FUNDING SOURCE		PARK/FACILITY IMPROVEMENTS	PROJECT COST
Park Land in Lieu	#820 (c)	Mas Fukai Park Improvements	3,500,000
			\$3,500,000
Measure A	#967 (c)	Multi-Park Improvements/Facility Master Plan Study	375,000
			\$375,000
Bond Proceeds / Measure G	#505 (c)	Rosecrans Community Center	5,000,000
			\$5,000,000
		PARK/FACILITY IMPROVEMENTS	SUBTOTAL
			\$8,875,000
		CIP- FISCAL YEAR 2023-2024	TOTAL
			\$15,792,000

CAPITAL IMPROVEMENT PROJECT (CIP) STREET REHABILITATION TEN (10) YEAR PLAN - FISCAL YEARS ENDING 2022-2032

	FUNDING (\$1,000's)									
	Prop C	SB 821	Measure R*	Measure M*	Gas Tax	SB1	Federal	Sewer	Measure W	Lighting Dist.
FISCAL YEAR 2022-2023										
Vermont Traffic Signal Improvement at RBB			\$ 1,366 R							
Artesia Blvd. Street Improvements (Western to Vermont)	\$ 1,650		\$ 2,523 R							
170th Street Improvements (Normandie to Vermont)							\$ 430			
RBB Street Improvements (Crenshaw to Vermont)				\$ 5,567 R						
Vermont Ave Street Improvements (Artesia to Gardena)				\$ 100 L			\$ 700			
New Marked Crosswalk with PHB on				\$ 40 L			\$ 167			
New Traffic Signal at Vermont/Magnolia			\$ 130 R							
Budlong Ave (135th to RBB) and Halldale Ave (135th to El Segundo) Street Improvements	\$ 1,000			\$ 500 L						
Local Street Improvements FY 2020-2021 (Various)						\$ 1,000				
Crenshaw Blvd St. Improvements (Rosecrans to El Seg.)				\$ 980 L						
Sewer Master Plan								\$ 350		
Van Ness Ave Street Improvements (RBB to Marine)	\$ 775									
Pedestrian Safety FY 2021-2022		\$ 80	\$ 300 L							
Local Street Improvements FY 2020-2021 (Various)					\$ 1,893					
Vermont Ave Street Improvements (Rosecrans to 135th)	\$ 100		\$ 200 L	\$ 240 L						
Storm Drain Debris Screen FY 2020-2021									\$ 145	
Storm Drain Debris Screen FY 2021-2022									\$ 145	
Citywide Wayfinding/Entry Sign Program					\$ 135					
Gardena Decorative Street Lighting										\$ 250
Pedestrian Safety FY 2022-2023		\$ 40	\$ 300 L							
Local Street Improvements FY 2022-2023 (Various)					\$ 400	\$ 1,375				
Storm Drain Debris Screen FY 2022-2023									\$ 200	

CAPITAL IMPROVEMENT PROJECT (CIP) STREET REHABILITATION TEN (10) YEAR PLAN - FISCAL YEARS ENDING 2022-2032

[illegible]

CAPITAL IMPROVEMENT PROJECT (CIP) STREET REHABILITATION TEN (10) YEAR PLAN - FISCAL YEARS ENDING 2022-2032

132nd St (Wilton to Water Chanel), 135th (Crenshaw to Budlong), 139th (Ardath to Van Ness), 145th (Gramercy to Western), 146th (Western to Denker), 157th (Van Ness to Gramercy), 164th (Normandie to New Hampshire) and 166th St (Western to Normandie) and Marine Ave (Western to Vermont) Street Improvements	\$ 550			\$ 900 L						
Ped Safety Improvement FY 2024-2025 (Various)		\$ 40	\$ 400 L							
Local Street Improvement FY 2024-2025 (Various)				L	\$ 500	\$ 1,300				
Sewer Rehabilitation FY 2024-2025								1,600		
Storm Drain Debris Screen FY 2024-2025									\$ 200	
Pavement Mangement Program Update	\$ 40									
TOTAL Fiscal Year 2024 - 2025	\$ 590	\$ 40	\$ 400	\$ 900	\$ 500	\$ 1,300	\$ -	\$ 1,600	\$ 200	\$ -
FISCAL YEAR 2025 - 2026										
Normandie Ave (RBB to El Segundo), Rosecrans Ave (Normandie to Purche PCC Repair), Vermont Ave (132nd to 135th) & Vermont (Rosecrans, Marine and RBB, 161st PCC Repair) and Western Ave (RBB to 139th) Street Improvements	\$ 550			\$ 900 L						
Ped Safety Improvement FY 2025-2026 (Various)		\$ 40	\$ 400 L							
Local Street Improvement FY 2025-2026 (Various)				L	\$ 500	\$ 1,300				
Sewer Rehabilitation FY 2025-2026								1,600		
Storm Drain Debris Screen FY 2025-2026									\$ 200	
TOTAL Fiscal Year 2025 - 2026	\$ 550	\$ 40	\$ 400	\$ 900	\$ 500	\$ 1,300	\$ -	\$ 1,600	\$ 200	\$ -
	FUNDING (\$1,000's)									
	Prop C	SB 821	Measure R*	Measure M*	Gas Tax	SB1	Federal	Sewer	Measure W	Lighting Dist.
FISCAL YEAR 2026 - 2027										
Arterial and Collector Street Improvements	\$ 550			\$ 900 L						

CAPITAL IMPROVEMENT PROJECT (CIP) STREET REHABILITATION TEN (10) YEAR PLAN - FISCAL YEARS ENDING 2022-2032

Ped Safety Improvement FY 2026-2027 (Various)		\$ 40	\$ 400 L							
Local Street Improvement FY 2026-2027 (Various)				L	\$ 500	\$ 1,300				
Sewer Rehabilitation FY 2026-2027								\$ 1,000		
Storm Drain Rehabilitation FY 2026-2027								\$ 600	\$ 200	
TOTAL Fiscal Year 2026 - 2027	\$ 550	\$ 40	\$ 400	\$ 900	\$ 500	\$ 1,300	\$ -	\$ 1,600	\$ 200	\$ -
FISCAL YEAR 2027 - 2028										
Arterial and Collector Street Improvements	\$ 550			\$ 900 L						
Ped Safety Improvement FY 2027-2028 (Various)		\$ 40	\$ 400 L							
Local Street Improvement FY 2027-2028 (Various)				L	\$ 500	\$ 1,300				
Sewer Rehabilitation FY 2027-2028								\$ 1,000		
Storm Drain Rehabilitation FY 2027-2028								\$ 600	\$ 200	
Pavement Management Program Update	\$ 45									
TOTAL Fiscal Year 2027 - 2028	\$ 550	\$ 40	\$ 400	\$ 900	\$ 500	\$ 1,300	\$ -	\$ 1,600	\$ 200	\$ -
<i>* L - Local Share & R - Regional/Highway funds</i>										
	FUNDING (\$1,000's)									
	Prop C	SB 821	Measure R*	Measure M*	Gas Tax	SB1	Federal	Sewer	Measure W	Lighting Dist.
FISCAL YEAR 2028 - 2029										
Arterial and Collector Street Improvements	\$ 550			\$ 900 L						
Ped Safety Improvement FY 2028-2029 (Various)		\$ 40	\$ 400 L							

CAPITAL IMPROVEMENT PROJECT (CIP) STREET REHABILITATION TEN (10) YEAR PLAN - FISCAL YEARS ENDING 2022-2032

[illegible]

CAPITAL IMPROVEMENT PROJECT (CIP) STREET REHABILITATION TEN (10) YEAR PLAN - FISCAL YEARS ENDING 2022-2032

Sewer Rehabilitation FY 2030-2031								\$ 1,000		
Storm Drain Rehabilitation FY 2030-2031								\$ 600	\$ 200	
Pavement Mangement Program Update	\$ 45									
TOTAL Fiscal Year 2030 - 2031	\$ 550	\$ 40	\$ 400	\$ 900	\$ 500	\$ 1,300	\$ -	\$ 1,600	\$ 200	\$ -
	FUNDING (\$1,000's)									
	Prop C	SB 821	Measure R*	Measure M*	Gas Tax	SB1	Federal	Sewer	Measure W	Lighting Dist.
FISCAL YEAR 2031 - 2032										
Arterial and Collector Streeet Improvements	\$ 550			\$ 900 L						
Ped Safety Improvement FY 2031-2032 (Various)		\$ 40	\$ 400 L							
Local Street Improvement FY 2031-2032 (Various)				L	\$ 500	\$ 1,300				
Sewer Rehabilitation FY 2031-2032								\$ 1,000		
Storm Drain Rehabilitation FY 2031-2032								\$ 600	\$ 200	
TOTAL Fiscal Year 2031 - 2032	\$ 550	\$ 40	\$ 400	\$ 900	\$ 500	\$ 1,300	\$ -	\$ 1,000	\$ 200	\$ -
<i>* L - Local Share & R - Regional/Highway funds</i>										



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DEBT SERVICE PROPOSED BUDGET FY 2022/2023 & 2023/2024

CITY OF GARDENA

FISCAL YEAR 2022-2023

DEBT SERVICE REQUIREMENTS

Series	ORIGINAL ISSUE			BEGINNING BALANCE July 1, 2022			RETIRED FY 2022-23			ENDING BALANCE June 30, 2023		
	PRINCIPAL	INTEREST	TOTAL	PRINCIPAL	INTEREST	TOTAL	PRINCIPAL	INTEREST	TOTAL	PRINCIPAL	INTEREST	TOTAL
Certificates of Participation (COPs):												
2006 A ¹	21,010,000	27,690,971	48,700,971	6,565,000	1,891,193	8,456,193	625,000	398,910	1,023,910	5,940,000	1,492,283	7,432,283
2007 A	2,800,000	1,929,165	4,729,165	1,315,000	356,432	1,671,432	120,000	66,575	186,575	1,195,000	289,857	1,484,857
Direct Purchase Lease:												
2017 ²	1,635,000	121,078	1,756,078	565,000	11,748	576,748	280,000	8,798	288,798	285,000	2,950	287,950
Lease Revenue Bonds:												
2014 ¹	9,110,000	8,035,249	17,145,249	8,815,000	4,721,178	13,536,178	65,000	438,366	503,366	8,750,000	4,282,812	13,032,812
2021	13,155,000	5,319,216	18,474,216	12,880,000	4,988,000	17,868,000	440,000	498,000	938,000	12,440,000	4,490,000	16,930,000
Taxable Pension Obligation Bonds:												
2020 ³	101,490,000	36,502,806	137,992,806	98,285,000	32,480,434	130,765,434	3,665,000	2,938,951	6,603,951	94,620,000	29,541,483	124,161,483
	\$155,700,000	\$79,598,485	\$235,298,485	\$128,425,000	\$44,448,985	\$172,873,985	\$5,195,000	\$4,349,600	\$9,544,600	\$123,230,000	\$40,099,385	\$163,329,385

Professional services and Admin. Fees: \$ 9,545

TOTAL: \$ 9,554,145

REVENUE SOURCES:

Transfer-in from General Fund	\$ 7,896,043
Transfer-in from GTrans Fund	\$ 1,386,169
Transfer-in from Sewer Fund	\$ 64,719
Transfer-in from Grant Funds	<u>\$ 207,214</u>
	<u>\$ 9,554,145</u>

¹ In Fiscal Year 2014/2015, 2006 Series B was refunded by the 2014 Taxable Lease Revenue Refunding Bonds.

² In Fiscal Year 2016/2017, 2006 Series C was refunded by the 2017 Direct Purchase Lease Bonds.

³ Of the original principal issued, \$79,193,585 was allocated to governmental activities (General) and \$22,296,415 was allocated to business-type activities (Enterprise).

DEBT SERVICE REQUIREMENTS
2006 REFUNDING CERTIFICATES OF PARTICIPATION SERIES A
(Issued in 2006)

BOND ISSUES: **CITY OF GARDENA**
Refunding Certificates of Participation

DATE OF ISSUES: June 7, 2006

AMOUNT OF ISSUE: \$21,010,000.00

AMOUNT OUTSTANDING: **\$6,565,000.00 ***
(June 30, 2022)

DESCRIPTION: The 2006 Refunding Certificates of Participation Series AB&C are issued to (1) refinance certain financial obligations of the City in connection with a Memorandum of Understanding with certain financial institutions, (2) prepay and defease certain outstanding 1994 Refunding Certificates of Participation, (3) fund a reserve fund and (4) pay certain costs of issuance.

The total \$21,010,000 includes \$12,495,000 aggregate principal amount of Certificates of Participation (2006 Refinancing Project, Series A), and \$8,515,000 aggregate principal amount of Certificates of Participation Series B (the 2006C Certificates.)

***Note**-In Fiscal Year 2014-2015 the 2006 Certificate of Participation, Series B, was refunded by the 2014 Taxable Lease Revenue Refunding Bonds, Series 2014. The econmic gain on the current refunding was \$1,637,398 and the savings in debt service payments was \$2,360,051.

The bond interest rates vary from 3.625% to 4.500%.

PAYMENT DATES: January 1 and July 1

PAYMENT AGENT: US Bank

DEBT SERVICE REQUIREMENTS			
	FY 2021-22	FY 2022-23	FY 2023-24
<u>REVENUE SOURCES</u>			
Transfer-in from General Fund	1,024,939	1,026,340	1,025,189
TOTAL:	\$ 1,024,939	\$ 1,026,340	\$ 1,025,189
<u>EXPENDITURES</u>			
Interest Expense	437,509	398,910	357,759
Principal payment	585,000	625,000	665,000
Administration and trustee fees	2,430	2,430	2,430
TOTAL:	\$ 1,024,939	\$ 1,026,340	\$ 1,025,189

DEBT SERVICE REQUIREMENTS
2017 DIRECT PURCHASE LEASE
(Issued in 2017)

BOND ISSUES: **CITY OF GARDENA**
Direct Purchase Lease

DATE OF ISSUES: June 2017

AMOUNT OF ISSUE: \$1,635,000.00

AMOUNT OUTSTANDING: **\$565,000.00**
(June 30, 2022)

DESCRIPTION: The 2017 Direct Purchase Lease Bonds were issued to (1) refund 2016 Certificate of Participation, Series C, (2) interests due and (3) pay certain costs of issuance.

PAYMENT DATES: The bonds bear interest at 2.07%.
January 1 and July 1

PAYMENT AGENT: Zions Bank

DEBT SERVICE REQUIREMENTS

REVENUE SOURCES

Transfer-in from General Fund

TOTAL:

	FY 2021-22	FY 2022-23	FY 2023-24
	17,110	288,798	287,950
\$	17,110	\$ 288,798	\$ 287,950

EXPENDITURES

Interest Expense

Principal payment

Administration and trustee fees

TOTAL:

	14,594	8,798	2,950
	280,000	280,000	285,000
	-	-	-
\$	294,594	\$ 288,798	\$ 287,950

DEBT SERVICE REQUIREMENTS
2007 REVENUE BONDS SERIES A
(Issued in 2007)

BOND ISSUES: **CITY OF GARDENA**
South Bay Communication Center

DATE OF ISSUES: January 24, 2007

AMOUNT OF ISSUE: \$2,800,000.00

AMOUNT OUTSTANDING: **\$1,315,000.00**
(June 30, 2022)

DESCRIPTION: The 2007 A Refunding Revenue Bonds are issued pursuant to Indenture of Trust, dated as of February 1, 2007 by and between the South Bay Regional Public Communications Authority (SBRPCA), and the Bank of New York Trust Company, N.A. as trustee. The bonds are issued to refund SBRPCA Revenue Bonds 2001 Series A (City of Gardena Project) in an amount of \$2,800,000, to fund the Reserve Account, and to pay certain costs of issuance.

PAYMENT DATES: January 1 and July 1

PAYMENT AGENT: Bank of New York Trust Company

DEBT SERVICE REQUIREMENTS

	FY 2021-22	FY 2022-23	FY 2023-24
<u>REVENUE SOURCES</u>			
Transfer-in from General Fund	189,295	188,545	187,545
TOTAL:	\$ 189,295	\$ 188,545	\$ 187,545
<u>EXPENDITURES</u>			
Interest Expense	72,325	66,575	60,575
Principal payment	115,000	120,000	125,000
Trustee admin. services	1,970	1,970	1,970
TOTAL:	\$ 189,295	\$ 188,545	\$ 187,545

DEBT SERVICE REQUIREMENTS
2014 TAXABLE LEASE REVENUE REFUNDING BONDS
(Issued in 2015)

BOND ISSUES: **CITY OF GARDENA**
Taxable Lease Revenue Refunding Bonds

DATE OF ISSUES: May 1, 2015

AMOUNT OF ISSUE: \$9,110,000.00

AMOUNT OUTSTANDING: **\$8,815,000.00**
(June 30, 2022)

DESCRIPTION: The 2014 Taxable Lease Revenue Refunding Bonds, were issued to (1) refund the 2006B Certificates, (2) fund capitalized interest for a portion of the Bonds through May 1, 2017, and (3) pay a portion of the costs of issuance.

PAYMENT DATES: The bond interest rates vary from 3.950% to 5.000%.
May 1 and November 1

PAYMENT AGENT: US Bank

	DEBT SERVICE REQUIREMENTS		
	FY 2021-22	FY 2022-23	FY 2023-24
<u>REVENUE SOURCES</u>			
Transfer-in from General Fund	508,579	506,011	508,444
TOTAL:	\$ 508,579	\$ 506,011	\$ 508,444
<u>EXPENDITURES</u>			
Interest Expense	440,934	438,366	435,799
Principal payment	65,000	65,000	70,000
Administration and trustee fees	2,645	2,645	2,645
TOTAL:	\$ 508,579	\$ 506,011	\$ 508,444

DEBT SERVICE REQUIREMENTS
2020 TAXABLE PENSION OBLIGATION BONDS
(Issued in 2020)

BOND ISSUES: **CITY OF GARDENA**
Taxable Pension Obligation Bonds

DATE OF ISSUES: November 1, 2020

AMOUNT OF ISSUE: \$101,490,000.00 (\$79,193,585 General and \$22,296,415 Enterprise)

AMOUNT OUTSTANDING: **\$98,285,000.00** (\$76,692,723 General and \$21,592,277 Enterprise)
(June 30, 2022)

DESCRIPTION: The 2020 Taxable Pension Obligation Bonds were issued to (1) finance a portion of the City's unfunded accrued actuarial liability to the California Public Employees' Retirement System (CalPERS) and (2) pay the costs of issuance of the bonds. Of the original principal issued, \$79,193,585 was allocated to governmental activities (General) and \$22,296,415 was allocated to business-type activities (Enterprise).

The bond interest rates vary from 1.081% to 3.363%.

PAYMENT DATES: April 1 and October 1

PAYMENT AGENT: US Bank

	DEBT SERVICE REQUIREMENTS		
	FY 2021-22	FY 2022-23	FY 2023-24
<u>REVENUE SOURCES</u>			
Transfer-in from General Fund	4,503,020	4,948,349	5,319,938
Transfer-in from GTrans Fund	1,252,647	1,386,169	1,490,541
Transfer-in from Sewer Fund	58,485	64,719	69,592
Transfer-in from Grant Funds	156,174	207,214	223,625
TOTAL:	\$ 5,970,325	\$ 6,606,451	\$ 7,103,696
<u>EXPENDITURES</u>			
Interest Expense	2,972,825	2,938,951	2,891,196
Principal payment	2,995,000	3,665,000	4,210,000
Administration and trustee fees	2,500	2,500	2,500
TOTAL:	\$ 5,970,325	\$ 6,606,451	\$ 7,103,696

DEBT SERVICE REQUIREMENTS
2021 LEASE REVENUE BONDS
(Issued in 2021)

BOND ISSUES: **CITY OF GARDENA**
Lease Revenue Bonds

DATE OF ISSUES: September 1, 2021

AMOUNT OF ISSUE: \$13,155,000.00

AMOUNT OUTSTANDING: **\$12,880,000.00**
(June 30, 2022)

DESCRIPTION: The 2021 Lease Revenue Bonds were issued to (1) finance a portion of the costs of construction of the new Gardena Community Aquatic & Senior Center, (2) finance the costs of acquiring and renovating an existing building to be converted into a new Community Center, (3) finance various park improvements, and (4) pay the costs of issuance.

PAYMENT DATES: The bond interest rates vary from 3.000% to 5.000%.
May 1 and November 1

PAYMENT AGENT: US Bank

DEBT SERVICE REQUIREMENTS

REVENUE SOURCES

Transfer-in from General Fund

TOTAL:

	FY 2021-22	FY 2022-23	FY 2023-24
	606,216	938,000	941,000
	\$ 606,216	\$ 938,000	\$ 941,000

EXPENDITURES

Interest Expense

Principal payment

Administration and trustee fees

TOTAL:

	331,216	498,000	476,000
	275,000	440,000	465,000
	-	-	-
	\$ 606,216	\$ 938,000	\$ 941,000

CITY OF GARDENA

FISCAL YEAR 2023-2024

DEBT SERVICE REQUIREMENTS

Series	ORIGINAL ISSUE			BEGINNING BALANCE July 1, 2023			RETIRED FY 2023-24			ENDING BALANCE June 30, 2024		
	PRINCIPAL	INTEREST	TOTAL	PRINCIPAL	INTEREST	TOTAL	PRINCIPAL	INTEREST	TOTAL	PRINCIPAL	INTEREST	TOTAL
Certificates of Participation (COPs):												
2006 A ¹	21,010,000	27,690,971	48,700,971	5,940,000	1,492,283	7,432,283	665,000	357,759	1,022,759	5,275,000	1,134,524	6,409,524
2007 A	2,800,000	1,929,165	4,729,165	1,195,000	289,857	1,484,857	125,000	60,575	185,575	1,070,000	229,282	1,299,282
Direct Purchase Lease:												
2017 ²	1,635,000	121,078	1,756,078	285,000	2,950	287,950	285,000	2,950	287,950	-	-	-
Lease Revenue Bonds:												
2014 ¹	9,110,000	8,035,249	17,145,249	8,750,000	4,282,812	13,032,812	70,000	435,799	505,799	8,680,000	3,847,013	12,527,013
2021	13,155,000	5,319,216	18,474,216	12,440,000	4,490,000	16,930,000	465,000	476,000	941,000	11,975,000	4,014,000	15,989,000
Taxable Pension Obligation Bonds:												
2020 ³	101,490,000	36,502,806	137,992,806	94,620,000	29,541,483	124,161,483	4,210,000	2,891,196	7,101,196	90,410,000	26,650,287	117,060,287
	\$155,700,000	\$79,598,485	\$235,298,485	\$123,230,000	\$40,099,385	\$163,329,385	\$5,820,000	\$4,224,279	\$10,044,279	\$117,410,000	\$35,875,106	\$153,285,106

Professional services and Admin. Fees: \$ 9,545

TOTAL: \$ 10,053,824

REVENUE SOURCES:

Transfer-in from General Fund	\$ 8,270,066
Transfer-in from GTrans Fund	\$ 1,490,541
Transfer-in from Sewer Fund	\$ 69,592
Transfer-in from Grant Funds	<u>\$ 223,625</u>
	<u>\$ 10,053,824</u>

¹ In Fiscal Year 2014/2015, 2006 Series B was refunded by the 2014 Taxable Lease Revenue Refunding Bonds.

² In Fiscal Year 2016/2017, 2006 Series C was refunded by the 2017 Direct Purchase Lease Bonds.

³ Of the original principal issued, \$79,193,585 was allocated to governmental activities (General) and \$22,296,415 was allocated to business-type activities (Enterprise).

DEBT SERVICE REQUIREMENTS
2006 REFUNDING CERTIFICATES OF PARTICIPATION SERIES A
(Issued in 2006)

BOND ISSUES: **CITY OF GARDENA**
Refunding Certificates of Participation

DATE OF ISSUES: June 7, 2006

AMOUNT OF ISSUE: \$21,010,000.00

AMOUNT OUTSTANDING: **\$5,940,000.00 ***
(June 30, 2023)

DESCRIPTION: The 2006 Refunding Certificates of Participation Series AB&C are issued to (1) refinance certain financial obligations of the City in connection with a Memorandum of Understanding with certain financial institutions, (2) prepay and defease certain outstanding 1994 Refunding Certificates of Participation, (3) fund a reserve fund and (4) pay certain costs of issuance.

The total \$21,010,000 includes \$12,495,000 aggregate principal amount of Certificates of Participation (2006 Refinancing Project, Series A), and \$8,515,000 aggregate principal amount of Certificates of Participation Series B (the 2006C Certificates.)

***Note-**In Fiscal Year 2014-2015 the 2006 Certificate of Participation, Series B, was refunded by the 2014 Taxable Lease Revenue Refunding Bonds, Series 2014. The econmic gain on the current refunding was \$1,637,398 and the savings in debt service payments was \$2,360,051.

The bond interest rates vary from 3.625% to 4.500%.

PAYMENT DATES: January 1 and July 1

PAYMENT AGENT: US Bank

DEBT SERVICE REQUIREMENTS			
	FY 2022-23	FY 2023-24	FY 2024-25
<u>REVENUE SOURCES</u>			
Transfer-in from General Fund	1,026,340	1,025,189	1,021,486
TOTAL:	\$ 1,026,340	\$ 1,025,189	\$ 1,021,486
<u>EXPENDITURES</u>			
Interest Expense	398,910	357,759	314,056
Principal payment	625,000	665,000	705,000
Administration and trustee fees	2,430	2,430	2,430
TOTAL:	\$ 1,026,340	\$ 1,025,189	\$ 1,021,486

DEBT SERVICE REQUIREMENTS
2017 DIRECT PURCHASE LEASE
(Issued in 2017)

BOND ISSUES: **CITY OF GARDENA**
Direct Purchase Lease

DATE OF ISSUES: June 2017

AMOUNT OF ISSUE: \$1,635,000.00

AMOUNT OUTSTANDING: **\$285,000.00**
(June 30, 2023)

DESCRIPTION: The 2017 Direct Purchase Lease Bonds were issued to (1) refund 2016 Certificate of Participation, Series C, (2) interests due and (3) pay certain costs of issuance.

PAYMENT DATES: The bonds bear interest at 2.07%.
January 1 and July 1

PAYMENT AGENT: Zions Bank

DEBT SERVICE REQUIREMENTS

REVENUE SOURCES

Transfer-in from General Fund

TOTAL:

	FY 2022-23	FY 2023-24	FY 2024-25
	17,110	287,950	-
\$	17,110	\$ 287,950	\$ -

EXPENDITURES

Interest Expense

Principal payment

Administration and trustee fees

TOTAL:

	8,798	2,950	-
	280,000	285,000	-
	-	-	-
\$	288,798	\$ 287,950	\$ -

DEBT SERVICE REQUIREMENTS
2007 REVENUE BONDS SERIES A
(Issued in 2007)

BOND ISSUES: **CITY OF GARDENA**
South Bay Communication Center

DATE OF ISSUES: January 24, 2007

AMOUNT OF ISSUE: \$2,800,000.00

AMOUNT OUTSTANDING: **\$1,195,000.00**
(June 30, 2023)

DESCRIPTION: The 2007 A Refunding Revenue Bonds are issued pursuant to Indenture of Trust, dated as of February 1, 2007 by and between the South Bay Regional Public Communications Authority (SBRPCA), and the Bank of New York Trust Company, N.A. as trustee. The bonds are issued to refund SBRPCA Revenue Bonds 2001 Series A (City of Gardena Project) in an amount of \$2,800,000, to fund the Reserve Account, and to pay certain costs of issuance.

PAYMENT DATES: January 1 and July 1

PAYMENT AGENT: Bank of New York Trust Company

DEBT SERVICE REQUIREMENTS

	FY 2022-23	FY 2023-24	FY 2024-25
<u>REVENUE SOURCES</u>			
Transfer-in from General Fund	188,545	187,545	186,295
TOTAL:	\$ 188,545	\$ 187,545	\$ 186,295
<u>EXPENDITURES</u>			
Interest Expense	66,575	60,575	54,325
Principal payment	120,000	125,000	130,000
Trustee admin. services	1,970	1,970	1,970
TOTAL:	\$ 188,545	\$ 187,545	\$ 186,295

DEBT SERVICE REQUIREMENTS
2014 TAXABLE LEASE REVENUE REFUNDING BONDS
(Issued in 2015)

BOND ISSUES: **CITY OF GARDENA**
Taxable Lease Revenue Refunding Bonds

DATE OF ISSUES: May 1, 2015

AMOUNT OF ISSUE: \$9,110,000.00

AMOUNT OUTSTANDING: **\$8,745,000.00**
(June 30, 2023)

DESCRIPTION: The 2014 Taxable Lease Revenue Refunding Bonds, were issued to (1) refund the 2006B Certificates, (2) fund capitalized interest for a portion of the Bonds through May 1, 2017, and (3) pay a portion of the costs of issuance.

PAYMENT DATES: The bond interest rates vary from 3.950% to 5.000%.
May 1 and November 1

PAYMENT AGENT: US Bank

	DEBT SERVICE REQUIREMENTS		
	FY 2022-23	FY 2023-24	FY 2024-25
<u>REVENUE SOURCES</u>			
Transfer-in from General Fund	506,011	508,444	505,679
TOTAL:	\$ 506,011	\$ 508,444	\$ 505,679
<u>EXPENDITURES</u>			
Interest Expense	438,366	435,799	433,034
Principal payment	65,000	70,000	70,000
Administration and trustee fees	2,645	2,645	2,645
TOTAL:	\$ 506,011	\$ 508,444	\$ 505,679

DEBT SERVICE REQUIREMENTS
2020 TAXABLE PENSION OBLIGATION BONDS
(Issued in 2020)

BOND ISSUES: **CITY OF GARDENA**
Taxable Pension Obligation Bonds

DATE OF ISSUES: November 1, 2020

AMOUNT OF ISSUE: \$101,490,000.00 (\$79,193,585 General and \$22,296,415 Enterprise)

AMOUNT OUTSTANDING: **\$94,620,000.00** (\$73,832,923 General and \$20,787,077 Enterprise)
(June 30, 2023)

DESCRIPTION: The 2020 Taxable Pension Obligation Bonds were issued to (1) finance a portion of the City's unfunded accrued actuarial liability to the California Public Employees' Retirement System (CalPERS) and (2) pay the costs of issuance of the bonds. Of the original principal issued, \$79,193,585 was allocated to governmental activities (General) and \$22,296,415 was allocated to business-type activities (Enterprise).

The bond interest rates vary from 1.081% to 3.363%.

PAYMENT DATES: April 1 and October 1

PAYMENT AGENT: US Bank

	DEBT SERVICE REQUIREMENTS		
	FY 2022-23	FY 2023-24	FY 2024-25
<u>REVENUE SOURCES</u>			
Transfer-in from General Fund	4,948,349	5,319,938	5,712,295
Transfer-in from GTrans Fund	1,386,169	1,490,541	1,601,109
Transfer-in from Sewer Fund	64,719	69,592	74,754
Transfer-in from Grant Funds	207,214	223,625	242,304
TOTAL:	\$ 6,606,451	\$ 7,103,696	\$ 7,630,462
<u>EXPENDITURES</u>			
Interest Expense	2,938,951	2,891,196	2,827,962
Principal payment	3,665,000	4,210,000	4,800,000
Administration and trustee fees	2,500	2,500	2,500
TOTAL:	\$ 6,606,451	\$ 7,103,696	\$ 7,630,462

DEBT SERVICE REQUIREMENTS
2021 LEASE REVENUE BONDS
(Issued in 2021)

BOND ISSUES: **CITY OF GARDENA**
Lease Revenue Bonds

DATE OF ISSUES: September 1, 2021

AMOUNT OF ISSUE: \$13,155,000.00

AMOUNT OUTSTANDING: **\$12,440,000.00**
(June 30, 2023)

DESCRIPTION: The 2021 Lease Revenue Bonds were issued to (1) finance a portion of the costs of construction of the new Gardena Community Aquatic & Senior Center, (2) finance the costs of acquiring and renovating an existing building to be converted into a new Community Center, (3) finance various park improvements, and (4) pay the costs of issuance.

PAYMENT DATES: The bond interest rates vary from 3.000% to 5.000%.
May 1 and November 1

PAYMENT AGENT: US Bank

DEBT SERVICE REQUIREMENTS

REVENUE SOURCES

Transfer-in from General Fund

TOTAL:

	FY 2022-23	FY 2023-24	FY 2024-25
	938,000	941,000	942,750
	\$ 938,000	\$ 941,000	\$ 942,750

EXPENDITURES

Interest Expense

Principal payment

Administration and trustee fees

TOTAL:

	498,000	476,000	452,750
	440,000	465,000	490,000
	-	-	-
	\$ 938,000	\$ 941,000	\$ 942,750



INTERNAL SERVICE FUNDS PROPOSED BUDGET FY 2022/2023 & 2023/2024

INTERNAL SERVICE FUNDS

PUBLIC SERVICE GOAL: *To continually build and maintain adequate reserves through annual budget contributions to protect the City's investment in the cost of insurance and other ongoing administrative obligations.*

Internal Service Funds are established to cover the cost of insurance and other ongoing administrative obligations and to separate these funds from the General Fund account. The City is self-insured for general liability, worker's compensation and employee health benefits coverage. Funds in these accounts are used to pay all self-insured losses and related administrative costs with the balance in each account at the end of the fiscal year accumulated as reserves against future liabilities.

SELF - INSURANCE PROGRAMS

The City retains the services of Third-Party Administrators (TPA) to handle claims for general liability, worker's compensation and health care claims. Current services are provided by:

General Liability Claims – Carl Warren & Co.

Workers Compensation Claims – AdminSure

Health Benefits Plan – Health Now

- **General Liability**

The General Liability Fund provides for the City's general liability, self-insurance program, and other insurance needs in order to reduce cost and provide better control; to provide for the administration and legal service necessary for the operation of this program; to provide insurance protection against catastrophic loss or losses and to provide payment of liability insurance purchased in excess of the City's self-insurance limits.

Charges to departments are established by the Director of Administrative Services and included in the budget manual. Upon recommendation from the finance committee, additional reserves may be transferred at year-end from the General Fund reserves.

- **Workers Compensation**

The Workers Compensation Fund is established to pay administrative and legal services necessary for the operation of this program; to provide payment of compensation benefits and medical expenses associated with industrial injuries; to provide insurance protection against a catastrophic loss or losses; to review and analyze the City's industrial injury risks and determine the most suitable means of reducing employee exposure, and to develop procedures for the administration of the City's Self-Insurance Compensation and Safety Program.

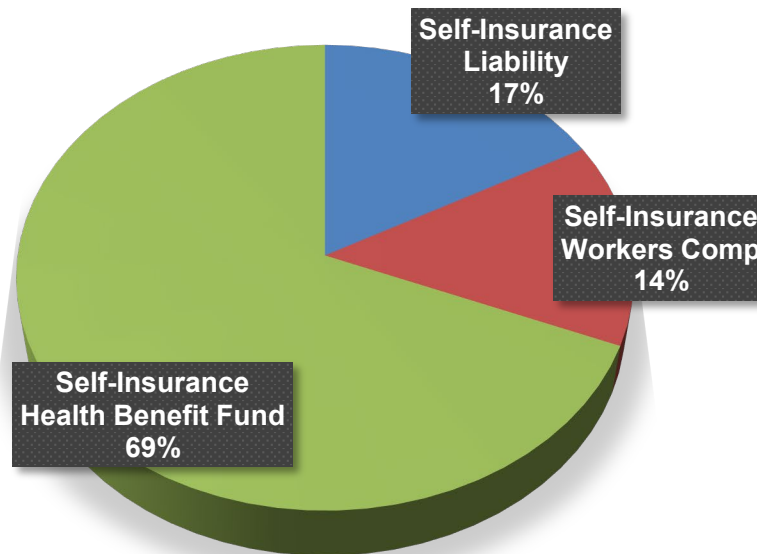
Charges to departments are established by the Director of Administrative Services and included in the budget manual.

- **Health Benefits**

The City is self-insured for health benefits for its employees and purchases reinsurance to transfer some of its risk. Rates are set by the Health Benefits Committee, which is comprised of management and one employee from each of the employee bargaining groups. The committee reviews the cost of health care, changes in benefits, and market trends in order to establish the rate for health insurance. Fund levels are set at a 70% confidence rate.

The fund is supported through contributions of both employees and the City as negotiated each year with the employee bargaining groups. The City's contribution is \$1,368 per month for the employee and one dependent. Employees contribute an additional \$494 per month if they have more than one dependent insured. Rates for life insurance varies depending on the bargaining group.

Internal Service Funds	Audited 2020-2021	Adopted 2021-2022	Proposed 2022-2023	Proposed 2023-2024
Self-Insurance Liability	1,895,716	2,364,423	2,650,414	2,736,135
Self-Insurance Workers Comp	3,161,078	1,940,032	2,217,890	2,279,683
Self-Insurance Health Benefit Fund	8,961,087	9,567,611	10,082,809	11,074,225
Total Internal Service Funds	14,017,881	13,872,066	14,951,113	16,090,043





APPENDIX

ACCOUNTING SYSTEM

The total set of records and procedures that are used to record, classify, and report information on the financial status and operations of an entity.

ACCOUNTS PAYABLE

Amounts owing to private persons, firms, or corporations for goods and services received.

ACCOUNTS RECEIVABLE

Amounts owing from private persons, firms, or corporations for goods and services furnished.

ACCRUAL

Transactions and events are recognized as revenues/gains or expenses/losses when they occur, regardless of the timing of the related cash flows.

ADOPTION

Formal action by the City Council that sets the spending path for the fiscal year.

ALLOCATION

The practice of spreading costs among various cost centers on some predetermined reasonable basis (e.g., percentages) as opposed to distribution of expenses on a unit charge or direct identification basis.

ACTIVITY

A specific unit of work or service performed.

APPROPRIATION

An authorization made by the City Council that permits officials to incur obligations against and to make expenditures of governmental resources. Appropriations are usually made for fixed amounts and are typically granted for a one-year period.

APPROPRIATION ORDINANCE

The official enactment by the City Council establishing the legal authority for the City officials to obligate and expend resources.

ASSESSED VALUATION

The estimated value placed upon real and personal property by the County Assessor as the basis for levying property taxes.

ASSETS

The entries on a balance sheet showing all properties and claims against others that may be used directly or indirectly to cover liabilities.

AUDIT

A systematic examination of resource utilization concluding in a written report. It is a test of management's internal accounting controls and is intended to:

- Ascertain whether financial statements fairly present financial positions and results of operations;
- Test whether transactions have been legally performed;
- Identify areas for possible improvements in accounting practices and procedures;
- Ascertain whether transactions have been recorded accurately and consistently; and
- Ascertain the managerial conduct of officials responsible for governmental resources.

BALANCE SHEET

A statement purporting to present the financial position of an entity by disclosing its assets, liabilities, and fund equities as of a specific date. Under varying circumstances, assets are carried at "lower of cost or market," "cost less allowance for depreciation," etc.

BOND (Debt Instrument)

A written promise to pay (debt) a specified sum of money (called principal or face value) at a specified future date (called the maturity date) along with periodic interest paid at a specified percentage of the principal (interest rate). Bonds are typically used for long-term debt to pay for specific capital expenditures.

BUDGET (Operating)

A plan of financial operation embodying an estimate of proposed expenditures for a given period (typically a fiscal year) and the proposed means of financing them (revenue estimates). The term is also sometimes used to denote the officially approved expenditure ceilings under which the City and its departments operate.

BUDGET CALENDAR

The schedule of key dates or milestones which the City follows in the preparation and adoption of the budget.

BUDGET MESSAGE (City Manager's)

A general discussion of the proposed budget presented in writing as a part of, or supplement to, the budget document. The budget message explains principal budget issues against the background of financial experience in recent years and presents recommendations made by the City Manager.

CAPITAL ASSETS

Assets of significant value and having a useful life of more than one year. Capital assets are also called fixed assets.

CAPITAL BUDGET

A plan of proposed capital expenditures and the means of financing them. The capital budget is enacted as part of the City's consolidated budget which includes both operating and capital outlays, and is based on a capital improvement program (CIP).

CAPITAL IMPROVEMENT PROGRAM (CIP)

A plan for capital expenditures to be incurred each year over a period of ten future years setting forth each capital project, the amount to be expended in each year, and the method of financing those expenditures.

CAPITAL OUTLAYS

Expenditures for the acquisitions of capital assets. Includes the cost of land, buildings, permanent improvements, machinery, large tools, rolling, and stationary equipment.

CAPITAL PROJECTS

Projects which purchase or construct capital assets. Typically a capital project encompasses a purchase of land and/or the construction of a building or facility.

CAPITAL PROJECTS FUND

Used to account for financial resources used for the acquisition or construction of major capital facilities (other than those financed by Proprietary Funds).

CERTIFICATE OF DEPOSIT

A negotiable or non-negotiable receipt for monies deposited in a bank or financial institution for a specified period and rate of interest.

COMMODITIES

Items of expenditure (in the operating budget) which after use, are consumed or show a material change in their physical condition, and

which are generally of limited value and are characterized by rapid depreciation, i.e. office supplies and motor fuel.

CONTINGENCY

A budgetary reserve set aside for emergencies or unforeseen expenditures not otherwise budgeted for.

CONTRACTUAL SERVICES

Items of expenditure for services the City receives from an internal service fund or an outside company. Utilities, rent and maintenance service agreements are examples of contractual services.

CONSUMER PRICE INDEX (CPI):

A statistical description of price levels provided by the U.S. Department of Labor. The change in this index from year to year is used to measure the cost of living and economic inflation.

DEBT SERVICE

Payment of interest and repayment of principal to holders of the City's debt instruments.

DEBT SERVICE FUND

Used to account for the accumulation of resources for, and payment of, general long-term debt.

DEFICIT

- The excess of entity's liabilities over its assets (See Fund Balance).
- The excess of expenditures or expenses over revenues during a single accounting period.

DEPARTMENT

An organizational unit comprised of one or more divisions.

DEPRECIATION

Expiration in the service life of capital assets attributable to wear and tear, deterioration, action of the physical elements, inadequacy or obsolescence.

- That portion of the cost of a capital asset, which is charged as an expense during a particular period.

DEBT RATIO

A ratio that indicates the proportion of debt compared to assets, calculated by dividing total debt by total assets.

DIVISION

A program or activity, within a department, that furthers the objectives of the City Council by providing services or products.

ENCUMBRANCES

Obligations in the form of purchase orders or contract commitments, which are chargeable to an appropriation and for which a part of the appropriation is reserved. They cease to be encumbrances when paid or when an actual liability is set up.

ENTERPRISE FUND

Separate financial accounting used for government operations that are financed and operated in a manner similar to business enterprises, and where the intent of the governing body is that the costs (expenses, including depreciation) of providing goods or services to the general public be financed or recovered primarily through user charges, or where the governing body had decided that periodic determination of net income is appropriate for capital maintenance, public policy, management control, or other purposes (i.e. utilities and transit systems).

EXPENDITURES

Where accounts are kept on the accrual or modified accrual basis of accounting, the cost of goods received or services rendered whether cash payments have been made or not. Where accounts are kept on a cash basis, expenditures are recognized only when the cash payments for the above purposes are made.

FISCAL YEAR

The City's fiscal year is based on the twelve-month period beginning July 1st and ending the following June 30th.

FIXED CHARGES

Items of expenditure for services rendered by internal operations of the City. Examples include: rental equipment, computer services, building rental, indirect operating expenses, and depreciation.

FRINGE BENEFITS

Included are employee retirement, social security, Medicare, health, dental, life insurance, workers' compensation, uniforms, and deferred compensation plans.

FULL FAITH AND CREDIT

A pledge of the City's taxing power to repay debt obligations (typically used in reference to General Obligation Bonds or tax-supported debt).

FUND

An independent fiscal and accounting entity with a self-balancing set of accounts recording cash and/or other resources together with all related liabilities, obligations, reserves and equities which are segregated for the purpose of carrying on specific activities or attaining certain objectives.

FUND BALANCE

The excess of an entity's assets over its liabilities. A negative fund balance is sometimes called a deficit.

GENERAL FUND

The fund supported by taxes, fees and other revenues that may be used for any lawful purpose. The general fund accounts for all financial resources except those required to be accounted for in another fund.

GENERAL OBLIGATION BONDS

When the City pledges its full faith and credit to the repayment of the bonds it issues, then those bonds are general obligation (G.O.) bonds. Sometimes the term is also used to refer to bonds, which are to be repaid from taxes and other general revenues. In California, G.O. bonds must be authorized by public referenda with two-thirds voter approval.

GOVERNMENTAL ACCOUNTING STANDARDS BOARD

To establish and improve standards in governmental accounting and financial reporting that will result in useful information.

INTERGOVERNMENTAL GRANT

A contribution of assets (usually cash) by one governmental unit or organization to another. Typically, these contributions are made to local governments from the State and Federal governments. Grants are usually made for specified purposes.

INTERNAL SERVICE FUND

Funds used to account for the financing of goods or services provided by one department or agency to another department or agency within the same organization.

INVESTMENT

Securities and real estate purchased and held for the production of income in the form of interest, dividends, rental or base payments.

LIABILITY

Debt or other legal obligations arising out of transactions in the past, which must be liquidated, renewed or refunded at some future date; financial obligations entered in the balance sheet. NOTE: The term does not include encumbrances.

MATURITIES

The dates on which the principal or stated values of investments or debt obligations mature and may be reclaimed.

MODIFIED ACCRUAL

Revenues are recognized when measurable and available to liquidate liabilities of the current period. Expenditures are recognized when an event or transaction is expected to draw on current or available resources.

MUNICIPAL CODE

A book containing City Council Approved Ordinances currently in effect. The Code defines City Policy in various categories (i.e., building regulations, planning and zoning regulations, sanitation and health standards, and traffic regulations).

OBJECT OF EXPENDITURE

Expenditure classifications based upon the types of categories of goods and services purchased. Examples include:

- personnel services (salaries and wages)
- contractual services (utilities, maintenance contracts, travel)
- commodities
- fixed charges (rental of City equipment, City building rental)
- capital outlays

OBJECTIVES

Departmental statements describing significant activities to be accomplished during the fiscal year.

OPERATING FUNDS

Resources derived from recurring sources used to finance ongoing operating expenditures and pay-as-you-go capital projects.

ORDINANCE

A formal legislative enactment by the governing board (City Council) of a municipality. If it is not in conflict with any higher form of law, it has the full force and effect of law within the boundaries of the municipality to which it applies.

PERFORMANCE MEASURES

Specific quantitative measures of work performed within an activity or program (e.g., total miles of streets cleaned). A specific quantitative measure of results obtained through a program or activity (e.g., reduced incidence of vandalism due to new street lighting program).

PERSONNEL SERVICES

Items of expenditures in the operating budget for salaries and wages paid for services performed by City employees, the incident fringe benefit cost associated with City employment, and amounts paid to outside firms, consultants, or individuals for contract personnel services.

PROGRAM

An activity, or division, within a department, which furthers the objectives of the City Council, by providing services or a product.

RATING

The credit worthiness of a City as evaluated by independent agencies.

REIMBURSEMENTS

Payments remitted by another agency, department, or fund to help defray the costs of a particular service or activity for which some benefit was obtained by the reimbursing party. These amounts are recorded as expenditures, or expenses in the reimbursing fund and as a reduction of expenditures, or expenses, in the fund that is reimbursed.

RESERVE

An account used to indicate that a portion of fund equity is legally restricted for a specific purpose, or set aside for emergencies or unforeseen expenditures not otherwise budgeted for. Reserve accounts can also be used to earmark a portion of fund balance to indicate that it is not appropriate for expenditures.

RESOLUTION

A special order of the City Council which requires less legal formality than an Ordinance in terms of public notice and the number of public readings prior to approval. A Resolution has lower legal standing than an Ordinance. The adopted operating budget is approved by Resolution and requires a majority vote of the Council members present at the time of adoption.

RESOURCES

Total dollars available for appropriations including estimated revenues, fund transfers, and beginning fund balances.

REVENUE

The term designates an increase to a fund's assets which:

- does not increase a liability (e.g., proceeds from a loan);
- does not represent a repayment of an expenditure already made;
- does not represent a cancellation of certain liabilities; and
- does not represent an increase in contributed capital.

REVENUE BONDS

When a government issues bonds, which do not pledge the full faith and credit of the jurisdiction, it issues limited liability revenue bonds. Typically, pledges are made to dedicate one specific revenue source to repay these bonds. In addition to a pledge of revenues, such bonds sometimes may be secured by a lien against property.

REVENUE ESTIMATES

A formal estimate of how much revenue will be earned from a specific revenue source for some future period; typically, a future fiscal year.

REVOLVING ACCOUNT

A reserve account that is funded by the amortization of a capital asset value charged annually to the user department with the accumulated funds used to replace the asset when it has reached the end of its normal life cycle.

SALARIES AND BENEFITS

An operating budget category which generally accounts for full-time and part-time salaries, overtime costs, and fringe benefits.

SOURCE OF REVENUE

Revenues are classified according to their source or point of origin.

SPECIAL REVENUE FUND

Used to account for the proceeds of special revenue sources that are restricted by law (or administrative action) to expenditures for specific purposes.

SUPPLIES AND SERVICES

This budget category accounts for all nonpersonnel, and noncapital outlay expenses (i.e., building/structure maintenance, contractual services, equipment maintenance, office supplies, small tool purchases, and utility costs).

TAXES

Compulsory charges levied by a government for the purpose of financing services performed for the common benefit. This term does not include specific charges made against particular persons or property for current or permanent benefits, such as special assessments. Neither does this term include charges for services rendered only to those paying such charges.

TRIPLE-FLIP

The revenue formula the State of California imposed on local government. The formula modifies (flips) the rate of distribution of three (triple) revenue sources that are passed through and distributed by the State: property tax, sales tax and motor vehicle-in-lieu fees.

TRANSFERS IN/OUT

Payments from one fund to another fund, primarily for work or services provided.

TRUST AND AGENCY FUND

A type of fund that temporarily holds monies for other agencies or legal entities.

UNIT COST

The cost required to produce a specific product or unit of service (e.g., the cost to purify one thousand gallons of water).

USER CHARGES (also known as USER FEES)

The payment of a fee for direct receipt of a public service by the party benefiting from the service.

YIELD

The rate earned on an investment based on the price paid.

AB	Assembly Bill
ABC	Alcoholic Beverage Control
ADA	American Disabilities Act
ADCRC	Alzheimers Day Care Resource Center
AMBAC	American Municipal Bond Assurance Corporation
AQMD	Air Quality Management District
ARRA	American Recovery and Reinvestment Act
ASST	Assistant
ATF	Alcohol Tobacco and Firearms, US Bureau of
ATM	Automated Teller Machine
AVE	Avenue
BHS	Behavioral Health Services
BIT	Biannual Inspection of Terminals
BJA	Bureau of Justice Assistance
BLDG	Building
BLVD	Boulevard
CA	California
CAL OSHA	California Occupational Safety and Health Act
CALWORKS	California Work Opportunity and Responsibility to Kids
CAPE	Community Action Project for the Elderly
CDBG	Community Development Block Grant
CDE	California Department of Education
CDPP	County Delinquency Prevention Program
CEO	Chief Executive Officer
CEQA	California Environmental Quality Act
CHGS	Charges
CINDEX	Clerk's Index
CIP	Capital Improvement Projects
CIS	Continuous Improvement System
CJSSP	County Justice System Subvention Program
CLEEP	California Law Enforcement Equipment Program

CLETEP	California Law Enforcement Technology Equipment Program
CO	Company
CO-ED	Co-educational
C of O	Certificate of Occupancy
COLA	Cost of Living Adjustment
COPS	Citizen Option for Public Safety
CORP	Corporation
CPI	Consumer Price Index
CSBG	Community Services Block Grant
CSMFO	California Society of Municipal Finance Officers
DEMO	Demolition
DEV	Development
DHS	Department of Homeland Security
DIST	District
DMH	Department of Mental Health
DOC	Document
DUI	Driving Under the Influence
EAP	Employee Assistance Program
EDWAA	Economically Dislocated Worker Adjustment Act
E.G.	For Example (Exempli Gratia)
ENF	Enforcement
EPA	Environmental Protection Agency
ERAF	Educational Relief Augmentation Fund
ESA	Environmental Site Assessment
E & T	Education and Training
ETC	Etcetera
EXP	Expense
FAU	Federal Aid to Urban Areas
FEMA	Federal Emergency Management Agency
FPPC	Fair Public Practices Commission

G-CAN	Gardena Community Action Network	LAIF	Local Agency Investment Fund
GAAFR	Governmental Accounting, Auditing and Financial Reporting	LTD.	Limited
GAAP	Generally Accepted Accounting Practices	MAINT	Maintenance
GAAS	Generally Accepted Auditing Standards	MDC	Mobile Data Computers
GASB	Governmental Accounting Standards Board	MDT	Mobile Data Terminals
GBAC	Gardena Business Advisory Council	MGMT	Management
GED	General Education Development	MGR.	Manager
GEPCO	Gardena Employee Personal Computer Opportunity	MIC	Management Information Center
GFCC	Gardena Family Child Care	MISC.	Miscellaneous
GFOA	Government Finance Officers Association	MMIC	Municipal Mutual Insurance Company
GIS	Geographic Information System	MTA	Metropolitan Transportation Authority
GMBL	Gardena Municipal Bus Line	N.A.	National Association
GMC	Gardena Municipal Code	NPDES	National Pollutant Discharge Elimination System
GRADE	Gardena Regional Anti-Drug Education	NRC	National Revenue Corp.
GRAGA	Gardena Royal and Ancient Golf Association	OAA	Older Americans Act
GREAT	Gang Resistance Education and Training	OCJP	Office of Criminal Justice Planning
HS	Human Services	OJP	Office of Justice Programs
HUD	The U.S. Department of Housing and Urban Development	OSHA	Occupational, Safety and Health Administration
ICMA	International City/County Management Association	OTS	Office of Traffic Safety
i.e.	(Latin: id est) that is	PARS	Public Agency Retirement System
IMPR	Improvement	PERS	Public Employee's Retirement System
INC.	Incorporated	PK.	Park
IND	Industrial	PL	Place
ISTEA	Intermodal Surface Transportation Efficiency Act	POP	Problem Oriented Policing
JAG	Justice Assistance Grant Program	POST	Police Officers Standards and Training
JR.	Junior	PRIM	Primary
JT POWERS	Joint Powers	PROG	Program
L.A.	Los Angeles	PROP 127	Proposition 127: 1/2 cents of sales for public safety services (Public Safety Augmentation Fund)
LACDACC	Los Angeles County Department of Animal Care and Control	PROP 40	Proposition 40: California Clean Water, Clean Air, Safe Neighborhood Parks, and Coastal Protection Act of 2002
LACoFD	Los Angeles County Fire District		
LLEBG	Bureau of Justice Assistance Local Law Enforcement Block Grant Program	PSI	Progressive Solutions, Inc.
LP	Limited Partnership	PT	Part-time

RCC	Regional Communication Center	STEP	Strategic Traffic Enforcement Program
REC.	Recreation	STEP	Subsidized Transitional Employment Program
RFP	Request for Proposal	STIP	State Transportation Improvement Program
SB	Senate Bill	STPLHG	Surface Transportation Program Local Hazard Grant
S.B.R.P.C.A.	South Bay Regional Public Communications Authority	SUBVN	Subvention
SBWIB	South Bay Workforce Investment Board	SYETP	Summer Youth Employment and Training Program
SCAG	Southern California Association of Governments	TDA	Transportation Development Act
SCAMP	Senior Community Action Meals Program	TEA 21	Transportation Equity Act for the 21st Century
SCAMP HD	Senior Community Action Meals Program-Home Delivered	TECH	Technical
SCIBA	Southern California International Business Academy	TRANS	Tax and Revenue Anticipation Notes
SDA	Service Delivery Area	TRAP	Taskforce For Regional Auto Theft Prevention
SDCC	Senior Day Care Center	TRG	Training
SLESF	Supplemental Law Enforcement Services Fund	TV	Television
SPORTS	Service Providing Opportunities through Recreational Training & Support	UHP	Universal Hiring Program
SR.	Senior	US	United States
ST	Street	USDOJ	U.S. Department of Justice
		WIA	Workforce Investment Act
		WRG	Waste Resources of Gardena
		WOTC	Work Opportunity Tax Credits
		YMCA	Young Men's Christian Association



City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 11.C
Section: DEPARTMENTAL
ITEMS - ADMINISTRATIVE
SERVICES
Meeting Date: May 24, 2022

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: Single Audit Report Required for Federally Funded Programs for Fiscal Year Ended June 30, 2021

COUNCIL ACTION REQUIRED:

Staff Recommendation: Receive and File

RECOMMENDATION AND STAFF SUMMARY:

Presented for City Council to receive and file is the City of Gardena Single Audit Report for the Fiscal Year ended June 30, 2021, as prepared by the City's contracted auditing firm, The Pun Group, LLP, Certified Public Accountants. The City is required to have a Single Audit performed annually on its major federal funds pursuant to the Office of Management and Budget (OMB) Compliance Supplement.

The major program determination for the federal grants for Fiscal Year 2020-2021 resulted in three (3) major programs being tested:

1. **Federal Transit** - Gtrans Formula Grants - Federal Expenditures audited for Fiscal Year 2020-2021 of \$17,291,685.
2. **Coronavirus State and Local Fiscal Recovery Funds** - Coronavirus State and Local Fiscal Recovery Grants- Federal Expenditures audited for Fiscal Year 2020-2021 of \$10,414,759.
3. **Community Development Block Grants/Entitlement Grants** - Community Development Block Grants/Entitlement Grants- Federal Expenditures audited for Fiscal Year 2020-2021 of \$959,261.

The audit was conducted in accordance with generally accepted auditing standards in the United States and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States.

The Single Audit is conducted to review the internal controls and adequacy of procedures carried out in the City's financial reporting. The auditors found no instances of non-compliance material to the basic financial statements of the City. The auditors identified no instances of procedural deficiency or material weaknesses in any of the federal grant programs. The auditors did not identify any current year findings or questioned costs in the financial statement. There was also no prior year findings or questioned costs in the financial statements.

FINANCIAL IMPACT/COST:

None

ATTACHMENTS:

[2021_Gardena_Single Audit Report_FINAL_.pdf](#)

[Single_Audit_PPT.pdf](#)

APPROVED:

A handwritten signature in blue ink, appearing to read "Clint Osorio", is positioned above a horizontal line.

Clint Osorio, City Manager

City of Gardena

Gardena, California

Single Audit and Independent Auditors' Reports

For the Year Ended June 30, 2021

City of Gardena
Single Audit and Independent Auditors' Reports
For the Year Ended June 30, 2021

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**REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND
OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN
ACCORDANCE WITH *GOVERNMENT AUDITING STANDARDS***

Independent Auditors' Report

To the Honorable Mayor and the Members of City Council
of the City of Gardena
Gardena, California

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City of Gardena, California (the "City"), as of and for the year ended June 30, 2021, and the related notes to the financial statements, which collectively comprise the City's basic financial statements, and have issued our report thereon dated December 9, 2021.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the City's internal control over financial reporting ("internal control") as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the City's internal control. Accordingly, we do not express an opinion on the effectiveness of the City's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the City's financial statements will not be prevented, or detected and corrected, on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the City's financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under Government Auditing Standards.

To the Honorable Mayor and the Members of City Council
of the City of Gardena
Gardena, California
Page 2

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the City's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the City's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

A handwritten signature in black ink that reads "The PwC Group, LLP". The signature is written in a cursive, flowing style.

Santa Ana, California
December 9, 2021



**REPORT ON COMPLIANCE FOR EACH MAJOR FEDERAL PROGRAM;
REPORT ON INTERNAL CONTROL OVER COMPLIANCE; AND REPORT ON THE
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS REQUIRED BY THE UNIFORM GUIDANCE**

Independent Auditors' Report

To the Honorable Mayor and the Members of City Council
of the City of Gardena
Gardena, California

Report on Compliance for Each Major Federal Program

We have audited the City of Gardena, California's (the "City") compliance with the types of compliance requirements described in the *OMB Compliance Supplement* that could have a direct and material effect on each of the City's major federal programs for the year ended June 30, 2021. The City's major federal programs are identified in the summary of the auditors' results section of the accompanying Schedule of Findings and Questioned Costs.

Management's Responsibility

Management is responsible for compliance with federal statutes, regulations, and the terms and conditions of its federal awards applicable to its federal programs.

Auditors' Responsibility

Our responsibility is to express an opinion on compliance for each of the City's major federal programs based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; the audit requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (the "Uniform Guidance"). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the City's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our opinion on compliance for each major federal program. However, our audit does not provide a legal determination of the City's compliance.

Opinion on Each Major Federal Program

In our opinion, the City complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2021.

Report on Internal Control Over Compliance

Management of the City is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the City's internal control over compliance with the types of requirements that could have a direct and material effect on each major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for each major federal program and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the City's internal control over compliance.

A deficiency in internal control over compliance exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. A *material weakness in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. A *significant deficiency in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, material weaknesses may exist that were not identified.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

Report on the Schedule of Expenditures of Federal Awards Required by the Uniform Guidance

We have audited the financial statements of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City as of and for the year ended June 30, 2021, and the related notes to the financial statements, which collectively comprise the City's basic financial statements. We issued our report thereon dated December 9, 2021, which contained unmodified opinions on those financial statements. Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the basic financial statements. The accompanying Schedule of Expenditures of Federal Awards is presented for purposes of additional analysis as required by Uniform Guidance and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the financial statements and certain other procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the Schedule of Expenditure of Federal Awards is fairly stated in all material respects in relation to the basic financial statements as a whole.



Santa Ana, California

May 2, 2022, except for the Schedule of Expenditures of Federal Awards, which is as of December 9, 2021.

City of Gardena
Schedule of Expenditures of Federal Awards
For the Year Ended June 30, 2021

Federal Grantor/Pass-Through Grantor Program Title	Assistance Listing Number	Agency or Pass-Through Number	Federal Expenditures	Expenditures to Subrecipients
U.S. Department of Housing and Urban Development				
<i>CDBG - Entitlement Grants Cluster</i>				
<i>Direct Programs:</i>				
Community Development Block Grants / Entitlement Grants	14.218	B-20-MC-06-0577	\$ 443,389	\$ 20,000
Community Development Block Grants / Entitlement Grants	14.218	B-20-MW-06-0577	515,872	-
Total CDBG - Entitlement Grants Cluster			959,261	20,000
Total U.S. Department of Housing and Urban Development			959,261	20,000
U.S. Department of Justice				
<i>Direct Program:</i>				
Equitable Sharing Program	16.922	CA0192400	32,025	-
Total U.S. Department of Justice			32,025	-
U.S. Department of Transportation				
<i>Highway Planning and Construction Cluster</i>				
<i>Pass-through the State of California Department of Transportation:</i>				
Highway Planning and Construction (Federal-Aid Highway Program)	20.205	STPL-5276	12,773	-
Total Highway Planning and Construction Cluster			12,773	-
<i>Federal Transit Cluster</i>				
<i>Direct Programs:</i>				
Federal Transit - Formula Grants (Urbanized Area Formula Program)	20.507	CA-90-Z260-00	4,052,223	-
Federal Transit - Formula Grants (Urbanized Area Formula Program)	20.507	CA-95-X334-00	4,718,408	-
Federal Transit - Formula Grants (Urbanized Area Formula Program)	20.507	CA-2018-128-00	1,623,779	-
Federal Transit - Formula Grants (Urbanized Area Formula Program)	20.507	CA-2019-092-00	237,549	-
Federal Transit - Formula Grants (Urbanized Area Formula Program)	20.507	CA-2020-189-01	6,650,248	-
Federal Transit - Formula Grants (Urbanized Area Formula Program)	20.507	CA-2020-241-00	9,478	-
Total Federal Transit - Formula Grants (Urbanized Area Formula Program)			17,291,685	-
Total Federal Transit Cluster			17,291,685	-
<i>Highway Safety Cluster</i>				
<i>Pass-through the State of California Office of Traffic Safety:</i>				
State and Community Highway Safety	20.600	PT20052	12,905	-
State and Community Highway Safety	20.600	PT21126	15,129	-
National Priority Safety Programs	20.616	TR21064	24,800	-
Total Highway Safety Cluster			52,834	-
<i>Pass-through the State of California Office of Traffic Safety:</i>				
Minimum Penalties for Repeat Offenders for Driving While Intoxicated	20.608	PT20052	15,758	-
Minimum Penalties for Repeat Offenders for Driving While Intoxicated	20.608	PT21126	25,969	-
Total Minimum Penalties for Repeat Offenders for Driving While Intoxicated			41,727	-
Total U.S. Department of Transportation			17,399,019	-

(Continued)

City of Gardena
Schedule of Expenditures of Federal Awards (Continued)
For the Year Ended June 30, 2021

Federal Grantor/Pass-Through Grantor Program Title	Assistance Listing Number	Agency or Pass-Through Number	Federal Expenditures	Expenditures to Subrecipients
U.S. Department of Health and Human Services				
<i>Aging Cluster</i>				
<i>Pass-through the County of Los Angeles:</i>				
Special Programs for the Aging - Title III, Part B - Grants for Supportive Services and Senior Centers	93.044	ENP202105	1,000	-
Special Programs for the Aging - Title III, Part B - Grants for Supportive Services and Senior Centers	93.044	SSP192003	17,493	-
Special Programs for the Aging - Title III, Part C - Nutrition Services	93.045	ENP202105	327,463	-
Special Programs for the Aging - Title III, Part C - Nutrition Services	93.045	ENP202105	326,404	-
Special Programs for the Aging - Title III, Part C - Nutrition Services	93.045	ENP202105	12,128	-
Nutrition Services Incentive Program	93.053	ENP202105	41,949	-
Nutrition Services Incentive Program	93.053	ENP202105	163,130	-
Total Aging Cluster			889,567	-
<i>CCDF Cluster</i>				
<i>Pass-through the State of California Department of Education:</i>				
Childcare and Development Block Grant	93.575	CCTR-0080	216,322	-
Childcare Mandatory and Matching Funds of the Childcare and Development Fund	93.596	CCTR-0080	482,729	-
Coronavirus Response and Relief Supplemental Appropriations Act	93.575		93,713	-
Total CCDF Cluster			792,764	-
Total U.S. Department of Health and Human Services			1,682,331	-
U.S. Department of Homeland Security				
<i>Pass-through the State of California Governor's Office of Emergency Services</i>				
Disaster Grants - Public Assistance (Presidentially Declared Disasters)	97.036	FEMA-4482DR	338,422	-
Total U.S. Department of Homeland Security			338,422	-
U.S. Treasury				
<i>Direct Programs:</i>				
Coronavirus Relief Fund	21.019		752,396	-
<i>Pass-through the State of California Department of Finance</i>				
Coronavirus State and Local Fiscal Recovery Funds	21.027		10,414,759	-
Total U.S. Treasury			11,167,155	-
Total Expenditures of Federal Awards			\$ 31,578,213	\$ 20,000

(Concluded)

City of Gardena
Notes to the Schedule of Expenditures of Federal Awards
For the Year Ended June 30, 2021

Note 1 – Reporting Entity

The financial reporting entity, as defined by the Governmental Accounting Standards Board (“GASB”) Codification, consists of the primary government, which is the City of Gardena, California (the “City”), organizations for which the primary government is financially accountable, and other organizations for which the nature and significance of their relationship with the primary government are such that exclusion would cause the City’s financial statements to be misleading or incomplete.

The City Council acts as the governing body and is able to impose its will on the following organization, establishing financial accountability:

- City of Gardena Public Improvement Corporation

Note 2 – Summary of Significant Accounting Policies

Basis of Accounting

Funds received under the various grant programs have been recorded within the special revenue funds and enterprise fund of the City. The City utilizes the modified accrual basis of accounting for the special revenue funds and the accrual basis of accounting for the enterprise funds. The accompanying Schedule of Expenditures of Federal Awards (the “Schedule”) is presented in accordance with the requirements of Title 2 U.S. *Code of Federal Regulations* (“CFR”) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (the “Uniform Guidance”). Therefore, some amounts presented in the Schedule may differ from amounts presented in, or used in, the preparation of City’s basic financial statements.

Schedule of Expenditures of Federal Awards

The accompanying Schedule presents the activity of all federal financial assistance programs of the City. Federal financial assistance received directly from federal agencies, as well as federal financial assistance passed through the State of California Department of Transportation, the State of California Office of Traffic Safety, the State of California Department of Education, the County of Los Angeles, the State of California Governor’s Office of Emergency Services, and the State of California Department of Finance are included in the Schedule. The Schedule was prepared from only the accounts of various grant programs and, therefore, does not present the financial position or results of operations of the City.

Indirect Cost Rate

The City did not elect to use the 10% de minimis cost rate.

Note 3 – Subrecipients

During the year ended June 30, 2021, the City provided federal funds to the following subrecipient:

Assistance Listing		Amount Provided
Numbers	Program Name / Subrecipient Name	to Subrecipients
14.218	Community Development Block Grants/Entitlement Grants:	
	The Fair Housing Foundation	\$ 20,000

City of Gardena
Schedule of Findings and Questioned Costs
For the Year Ended June 30, 2021

Section I – Summary of Auditors’ Results

Financial Statements

Types of report the auditors issued on whether the financial statements audited were prepared in accordance with GAAP:

Unmodified

Internal control over financial reporting:

- Material weakness(es) identified?

No

- Significant deficiency(ies) identified?

None Reported

Noncompliance material to financial statements noted?

No

Federal Awards

Internal control over major federal programs:

- Material weakness(es) identified?

No

- Significant deficiency(ies) identified?

None Reported

Type of auditors’ report issued on compliance for major federal programs:

Unmodified

Any audit findings disclosed that are required to be reported in accordance with 2 CFR 200.516(a)?

No

Identification of major federal programs:

Assistance Listing Numbers	Name of Major Program or Cluster	Federal Expenditures
14.218	Community Development Block Grants/Entitlement Grants	\$ 959,261
20.507	Federal Transit - Formula Grants	17,291,685
21.027	Coronavirus State and Local Fiscal Recovery Funds	10,414,759
Total Expenditures of All Major Federal Programs		\$ 28,665,705
Total Expenditures of Federal Awards		\$ 31,578,213
Percent of Total Expenditures of Federal Awards		90.78%

Dollar threshold used to distinguish between type A and type B programs:

\$947,346

Auditee qualified as a low-risk auditee in accordance with 2 CFR 200.520?

Yes

City of Gardena
Schedule of Findings and Questioned Costs (Continued)
For the Year Ended June 30, 2021

Section II – Financial Statement Findings

A. Current Year Findings – Financial Statement

No current year findings were noted.

B. Prior Year Findings – Financial Statement

No prior year findings were noted.

Section III – Federal Award Findings and Questioned Costs

A. Current Year Findings and Questioned Costs – Major Federal Award Program Audit

No current year findings were noted.

B. Prior Year Findings and Questioned Costs – Major Federal Award Program Audit

No prior year findings were noted.

City of Gardena

SINGLE AUDIT REPORT FISCAL YEAR 2020-2021

City Council Meeting
May 24, 2022





SINGLE AUDIT REPORT FISCAL YEAR 2020-2021

- Independent Auditor: The Pun Group
- Total Expenditures of Federal Funds: **\$31.6M**
- Major Program Selection Criteria
 - Program expenditure of \$947,346 or 3% of the Total Federal Fund Expenditures
- Three (3) programs with expenditures greater than \$947,346

Program	Total Federal Expenditures	% of Total Federal Exp
Federal Transit Grants - FTA	\$17,291,685	54.7%
Coronavirus State & Local Fiscal Recovery Funds - ARP	\$10,414,759	33%
Community Development Block Grant (CDBG)	\$959,261	3%
Total Major Federal Programs	\$28,665,705	90.78%



SINGLE AUDIT REPORT FISCAL YEAR 2020-2021

- Audit to test for
 - Internal Control & Compliance
- Expenditures samples: 120 invoices, 56 payroll, 5 procurements
- Revenue samples: 101
- Time frame: 2 weeks period (March 1st to March 11th)
- City qualified as a low-risk auditee
- Audit Results: **Unmodified – No findings**

City of Gardena

SINGLE AUDIT REPORT FISCAL YEAR 2020-2021

City Council Meeting
May 24, 2022





City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 12.A
Section: DEPARTMENTAL
ITEMS - COMMUNITY
DEVELOPMENT
Meeting Date: May 24, 2022

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: RESOLUTION NO. 6578, Authorizing the Community Development Department to Enforce the Requirements of AB 1276- Single-Use Foodware Accessories and Standard Condiments

COUNCIL ACTION REQUIRED:

Staff Recommendation: Adopt Resolution No. 6578

RECOMMENDATION AND STAFF SUMMARY:

In October 2021, Governor Newsom signed into law California State Assembly Bill (AB) 1276 (attached).

AB 1276, effective January 1, 2022, prohibits a food facility from providing any single-use foodware accessory (knives, spoons, sporks, chopsticks, condiment cups and packets, straws, stirrers, splash sticks and cocktail sticks) or standard condiment (relishes, spices, sauces, confections, or seasonings that require no additional preparation and that are usually used on a food item after preparation, including ketchup, mustard, mayonnaise, soy sauce, hot sauce, salsa, salt, pepper, sugar, and sugar substitutes) unless requested by the consumer. This new law also prohibits those items from being bundled or packaged in a way that prohibits the consumer from taking only the item desired. The new law does not apply to correctional institutions, health care facilities, residential care facilities, and public and private school cafeterias.

The first and second violations of these provisions result in a notice of violation, and any subsequent violation is an infraction punishable by a fine of \$25 for each day in violation, but not to exceed an annual total of \$300. The law further requires each City, by June 30, 2022, to authorize an enforcement agency to enforce these requirements.

The Community Development Department currently employs code compliance officers appointed in accordance with Gardena Municipal Code §1.16.070 to issue administrative citations. Thus, the proposed Resolution No 6578 designates the Community Development Department as the enforcement agency to enforce the new state requirements of AB 1276.

Therefore, Staff respectfully recommends that Council Adopt Resolution number 6578.

FINANCIAL IMPACT/COST:

Current staff is expected to provide this service, and the City will be the recipient of any fines.

ATTACHMENTS:

[Bill Text - AB-1276 Single-use foodware accessories and standard condiments.pdf](#)
[RESOLUTION NO 6578.pdf](#)

APPROVED:

A handwritten signature in blue ink, appearing to read "Clint Osorio".

Clint Osorio, City Manager



AB-1276 Single-use foodware accessories and standard condiments. (2021-2022)

SHARE THIS:



Date Published: 10/06/2021 09:00 PM

Assembly Bill No. 1276

CHAPTER 505

An act to amend Sections 42270 and 42271 of, to amend the heading of Chapter 5.2 (commencing with Section 42270) of Part 3 of Division 30 of, and to add Sections 42272 and 42273 to, the Public Resources Code, relating to solid waste.

[Approved by Governor October 05, 2021. Filed with Secretary of State
October 05, 2021.]

LEGISLATIVE COUNSEL'S DIGEST

AB 1276, Carrillo. Single-use foodware accessories and standard condiments.

Existing law prohibits a full-service restaurant, as specified, from providing single-use plastic straws, as defined, to consumers unless requested by the consumer, and places the duty to enforce this prohibition on specified state and local health and environmental health officers and their agents. Existing law specifies that the first and 2nd violations of these provisions result in a notice of violation, and any subsequent violation is an infraction punishable by a fine of \$25 for each day the full-service restaurant is in violation, but not to exceed an annual total of \$300.

This bill would instead prohibit a food facility from providing any single-use foodware accessory or standard condiment, as defined, to a consumer unless requested by the consumer, as provided. The bill would prohibit those items from being bundled or packaged in a way that prohibits the consumer from taking only the item desired. The bill would authorize a food facility to ask a drive-through consumer, or a food facility located within a public airport to ask a walk-through consumer, if the consumer wants a single-use foodware accessory in specified circumstances. The bill would require a food facility using a third-party food delivery platform to list on its menu the availability of single-use foodware accessories and standard condiments and only provide those items when requested, as provided. The bill would exclude from these requirements correctional institutions, health care facilities, residential care facilities, and public and private school cafeterias.

This bill would require a city, county, or city and county, on or before June 1, 2022, to authorize an enforcement agency to enforce these requirements. The bill would specify that the first and 2nd violations of these provisions result in a notice of violation, and any subsequent violation is an infraction punishable by a fine of \$25 for each day in violation, but not to exceed an annual total of \$300. By creating a new crime and imposing additional duties on local governing bodies, this bill would impose a state-mandated local program.

The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.

This bill would provide that with regard to certain mandates no reimbursement is required by this act for a specified reason.

With regard to any other mandates, this bill would provide that, if the Commission on State Mandates determines that the bill contains costs so mandated by the state, reimbursement for those costs shall be made pursuant to the statutory provisions noted above.

Vote: majority Appropriation: no Fiscal Committee: yes Local Program: yes

THE PEOPLE OF THE STATE OF CALIFORNIA DO ENACT AS FOLLOWS:

SECTION 1. The heading of Chapter 5.2 (commencing with Section 42270) of Part 3 of Division 30 of the Public Resources Code is amended to read:

CHAPTER 5.2. Single-Use Foodware Accessories and Condiments

SEC. 2. Section 42270 of the Public Resources Code is amended to read:

42270. For purposes of this chapter, the following definitions apply:

- (a) "Consumer" has the same meaning as in Section 113757 of the Health and Safety Code.
- (b) "Food facility" has the same meaning as in Section 113789 of the Health and Safety Code.
- (c) "Ready-to-eat food" has the same meaning as in Section 113881 of the Health and Safety Code.
- (d) "Single-use" means designed to be used once and then discarded, and not designed for repeated use and sanitizing.
- (e) "Single-use foodware accessory" means all of the following single-use items provided alongside ready-to-eat food:
 - (1) Utensils, which is defined as forks, knives, spoons, and sporks.
 - (2) Chopsticks.
 - (3) Condiment cups and packets.
 - (4) Straws.
 - (5) Stirrers.
 - (6) Splash sticks.
 - (7) Cocktail sticks.
- (f) "Standard condiment" means relishes, spices, sauces, confections, or seasonings that require no additional preparation and that are usually used on a food item after preparation, including ketchup, mustard, mayonnaise, soy sauce, hot sauce, salsa, salt, pepper, sugar, and sugar substitutes.
- (g) "Third-party food delivery platform" has the same meaning as in Section 113930.5 of the Health and Safety Code.

SEC. 3. Section 42271 of the Public Resources Code is amended to read:

42271. (a) Except as provided in subdivisions (c) and (d), a food facility, for on-premises dining or when using a third-party food delivery platform, shall not provide any single-use foodware accessory or standard condiment packaged for single use to a consumer unless the single-use foodware accessory or standard condiment is requested by the consumer.

(b) Single-use foodware accessories and standard condiments packaged for single use provided by food facilities for use by consumers shall not be bundled or packaged in a manner that prohibits a consumer from taking only the type of single-use foodware accessory or standard condiment desired without also having to take a different type of single-use foodware accessory or standard condiment.

(c) A food facility may ask a drive-through consumer if the consumer wants a single-use foodware accessory if the single-use foodware accessory is necessary for the consumer to consume ready-to-eat food, or to prevent

spills of or safely transport ready-to-eat food.

(d) A food facility that is located entirely within a public use airport, as defined in Section 77.3 of Title 14 of the Code of Federal Regulations, may ask a walk-through consumer if the consumer wants a single-use foodware accessory if the single-use foodware accessory is necessary for the consumer to consume ready-to-eat food, or to prevent spills of or safely transport ready-to-eat food.

(e) (1) A third-party food delivery platform shall provide consumers with the option to request single-use foodware accessories or standard condiments from a food facility serving ready-to-eat food.

(2) If a food facility uses any third-party delivery platform for ready-to-eat food, the food facility shall customize its menu with a list of available single-use foodware accessories and standard condiments, and only those single-use foodware accessories or standard condiments selected by the consumer shall be provided by the food facility. If a consumer does not select any single-use foodware accessories or standard condiments, no single-use foodware accessory or standard condiment shall be provided by the food facility for delivery of ready-to-eat food.

(f) Nothing in this section shall prohibit a food facility from making unwrapped single-use foodware accessories available to a consumer using refillable self-service dispensers that dispense one item at a time to allow for single-use foodware accessories to be obtained.

(g) Nothing in this section shall prohibit a food facility from making standard condiments available to a consumer using refillable self-service dispensers to allow for standard condiments to be obtained. A food facility that offers standard condiments is encouraged to use bulk dispensers for the condiments rather than condiments packaged for single use.

(h) Nothing in this section shall prevent a city, county, city and county, or other local public agency from adopting and implementing an ordinance or rule that would further restrict a food facility or a third-party food delivery platform from providing single-use foodware accessories or standard condiments to a consumer.

(i) A food facility is encouraged, but not required, to take actions in addition to the requirements of this section that support a goal of reducing the use of and waste generated by all single-use food service products.

SEC. 4. Section 42272 is added to the Public Resources Code, to read:

42272. (a) On or before June 1, 2022, a city, county, or city and county shall authorize an enforcement agency to enforce this chapter.

(b) The first and second violations of this chapter shall result in a notice of violation, and any subsequent violation shall constitute an infraction punishable by a fine of twenty-five dollars (\$25) for each day in violation, but not to exceed three hundred dollars (\$300) annually.

SEC. 5. Section 42273 is added to the Public Resources Code, to read:

42273. This chapter does not apply to any of the following:

(a) Correctional institutions, which has the same meaning as in Section 7502 of the Penal Code.

(b) Health care facilities licensed pursuant to Article 1 (commencing with Section 1250) of Chapter 2 of Division 2 of the Health and Safety Code or facilities that are owned or operated by a health care service plan licensed pursuant to Chapter 2.2 (commencing with Section 1340) of Division 2 of the Health and Safety Code.

(c) Residential care facilities licensed pursuant to Division 2 (commencing with Section 1200) of the Health and Safety Code.

(d) Public and private school cafeterias, as referenced in paragraph (1) of subdivision (b) of Section 113789 of the Health and Safety Code.

SEC. 6. No reimbursement is required by this act pursuant to Section 6 of Article XIII B of the California Constitution for certain costs that may be incurred by a local agency or school district because, in that regard, this act creates a new crime or infraction, eliminates a crime or infraction, or changes the penalty for a crime or infraction, within the meaning of Section 17556 of the Government Code, or changes the definition of a crime within the meaning of Section 6 of Article XIII B of the California Constitution.

However, if the Commission on State Mandates determines that this act contains other costs mandated by the state, reimbursement to local agencies and school districts for those costs shall be made pursuant to Part 7 (commencing with Section 17500) of Division 4 of Title 2 of the Government Code.

RESOLUTION NO. 6578

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, AUTHORIZING THE COMMUNITY DEVELOPMENT DEPARTMENT TO ENFORCE THE REQUIREMENTS OF AB 1276- SINGLE-USE FOODWARE ACCESSORIES AND STANDARD CONDIMENTS

THE CITY COUNCIL OF THE CITY OF GARDENA DOES HEREBY RESOLVE AS FOLLOWS:

WHEREAS, AB 1276, effective January 1, 2022, prohibits a food facility from providing any single-use foodware accessory (knives, spoons, sporks, chopsticks, condiment cups and packets, straws, stirrers, splash sticks and cocktail sticks.) or standard condiment (relishes, spices, sauces, confections, or seasonings that require no additional preparation and that are usually used on a food item after preparation, including ketchup, mustard, mayonnaise, soy sauce, hot sauce, salsa, salt, pepper, sugar, and sugar substitutes), unless requested by the consumer and also prohibits those items from being bundled or packaged in a way that prohibits the consumer from taking only the item desired; and

WHEREAS, AB 1276 specifies that the first and second violations of this bill's provisions result in a notice of violation, and any subsequent violation is an infraction punishable by a fine of \$25 for each day in violation, but not to exceed an annual total of \$300; and

WHEREAS, AB 1276 further requires each City, by June 30, 2022, to authorize an enforcement agency to enforce these requirements; and

WHEREAS, The Community Development Department currently employs code compliance officers appointed in accordance with Gardena Municipal Code §1.16.070 to issue administrative citations for infractions.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, DOES HEREBY FIND, DETERMINE, AND RESOLVE, AS FOLLOWS:

SECTION 1. The Community Development Department is hereby authorized to

enforce the infractions designated in AB 1276.

BE IT FURTHER RESOLVED that the City Clerk shall certify to the passage and adoption of this Resolution; shall cause the same to be entered among the original Resolutions of said City; and shall make a minute of the passage and adoption thereof in the records of the proceedings of the City Council of said City in the minutes of the meeting at which the same is passed and adopted.

Passed, approved, and adopted this _____ day of May, 2022

TASHA CERDA, Mayor

ATTEST:

MINA SEMENZA, City Clerk

APPROVED AS TO FORM:



CARMEN VASQUEZ, City Attorney



City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 12.B
Section: DEPARTMENTAL
ITEMS - COMMUNITY
DEVELOPMENT
Meeting Date: May 24, 2022

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: Approve additional \$350,000 in funding to pay BPR Consulting Group, Inc to Continue Providing Contracted Plan Check, Permitting, and Inspection Services.

COUNCIL ACTION REQUIRED:

Staff Recommendation: Approve Additional Amount Requested

RECOMMENDATION AND STAFF SUMMARY:

On October 12, 2021, the City Council approved an agreement with BPR Consulting Group, Inc. to provide contracted building and safety services such as plan check, plan routing, permit processing, building and safety oversight, and inspection services. The budgeted amount requested for this vendor and approved at the time was \$300,000.

However, the \$300,000 approved is expected to be depleted by the services rendered in March, and additional funding authorization is required to pay for the remaining fiscal year's contracted building services. In the past 10 months the Community Development Department has seen a significant increase in plan check submittals, permit issuance, and inspection services in comparison to the previous fiscal years' same 10 month period.

Staff respectfully recommends that an additional \$350,000 for FY 2021-2022 be available to pay for contracted Building and Safety services to BPR Consulting Group, Inc., an increase of \$350,000 from the original approved \$300,000 for a total amount approved for FY 2021-2022 of \$650,000.

FINANCIAL IMPACT/COST:

Requesting an additional \$350,000 to be made available to pay for contracted building and safety services to BPR Consulting Group, Inc. for a total approved amount of \$650,000 for Fiscal Year 2021-2022. The \$350,000 being requested would be offset by the plan check and permit fees to be collected which is anticipated to be approximately \$466,000.

ATTACHMENTS:

[Staff Report - Building Services FY21-22 Funding Request.pdf](#)

APPROVED:

A handwritten signature in blue ink, appearing to read "Clint Osorio", is centered within a light gray rectangular box.

Clint Osorio, City Manager



City of Gardena

City Council Meeting

Agenda Item No.: 12.B
Department: Community Development
Meeting Date: May 24, 2022
Building & Safety Budget Amendment

AGENDA STAFF REPORT

AGENDA TITLE: APPROVE ADDITIONAL \$350,000 IN FUNDING TO PAY BPR CONSULTING GROUP, INC TO CONTINUE PROVIDING CONTRACTED PLAN CHECK, PERMITTING, AND INSPECTION SERVICES

RECOMMENDATION:

Staff respectfully recommends that Council approve adding additional funding to increase the amount available to pay for contracted Building and Safety services provided by BPR Consulting Group, Inc. from \$300,000 to \$650,000, for a total increase of \$350,000.

BACKGROUND:

On October 12, 2021, the City Council approved an agreement with BPR Consulting Group, Inc. to provide contracted building and safety services such as plan check, plan routing, permit processing, building and safety oversight, and inspection services. The budgeted amount requested and approved at the time was \$300,000.

DISCUSSION:

Initially, in October 2021, approximately \$300,000 was made available for the remaining Fiscal Year (FY) 2021-2022 contracted building and safety services budget. This was based on an average of expending approximately \$45,300 per month for the previous 2 months on contracted building services. However, the \$300,000 made available is expected to be depleted by the services rendered in March, and additional funding authorization is required to pay for the remaining fiscal year's contracted building services. In comparing the past 10 months of activity for FY 2021-2022 to the previous FY 2020-2021 activities, a much larger amount of permit issuances, plan checks, and inspection services were conducted than anticipated. Although the department is still in the process of becoming current for all building related services, there has been a positive result in reducing the backlog of plan checks and inspection services. It is important to note that as the amount of building service activities increase, the amount of fees collected also increases, which is used to pay for the services. The \$350,000 being requested would be offset by the plan check and permit fees which is anticipated to be approximately \$466,000. The following is a comparison from FY-to-FY for the past 10 months of services and fees collected:

Total Issued Permits –

July 2021 – April 2022: 1,899 (488 Increase)

July 2020 – April 2021: 1,411

Total Inspections –

July 2021 – April 2022: 6,505 (1,664 Increase)

July 2020 – April 2021: 4,841

Total Truth in Sales Reports Completed –

July 2021 – April 2022: 199 (116 Increase)

July 2020 – April 2021: 83

Total Plan Check Fees Collected –

July 2021 – April 2022: \$488,976.84 (\$282,061.56 Increase)

July 2020 – April 2021: \$206,915.28

Total Permit and Other Fees Collected –

July 2021 – April 2022: \$2,780,788.87 (\$934,781.50 Increase)

July 2020 – April 2021: \$1,846,007.31

California state law allows cities to collect fees in order to pay for the service that is being provided. Building and Safety fees collected, and expenditures for providing those related services fluctuates based on activity that is occurring at the time, and is unpredictable throughout the fiscal year. Large quantity or single large complicated projects require more costs for services, however, the fees collected by the plan check and permit issuance services increases and pays for those costs.

LEGAL REVIEW:

Not Applicable

CONCLUSION:

Building and Safety services is an integral part of development in our City. The additional \$350,000 requested to be made available to pay for contracted building and safety services is funded by plan check review fees, permit issuance fees, and other related fees which would be collected during the same remaining FY 2021-2022. Staff respectfully recommends that an additional \$350,000 for FY 2021-2022 be made available to pay for contracted Building and Safety services to BPR Consulting Group, Inc., resulting in a total increase from \$300,000 to \$650,000.

FISCAL IMPACT:

Requesting an additional \$350,000 to be made available to pay for contracted building and safety services to BPR Consulting Group, Inc. for a total approved amount of \$650,000 for Fiscal Year 2021-2022. The \$350,000 being requested would be offset by the plan check and permit fees which is anticipated to be approximately \$466,000.

Submitted by: Greg S. Tsujiuchi

Date: 05/24/2022



City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 15.A
Section: DEPARTMENTAL
ITEMS - PUBLIC WORKS
Meeting Date: May 24, 2022

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: Award Professional Services Contract for the National Pollutant Discharge Elimination System (NPDES) Program Management Services for Fiscal Year 2022-2023, 2023-2024 and 2024-2025 in the amount of \$689,193 to CWE Corporation.

COUNCIL ACTION REQUIRED:

Staff Recommendation: Approve Professional Services Contract

RECOMMENDATION AND STAFF SUMMARY:

The City of Gardena solicited proposals from qualified and experienced firms to provide NPDES Program Management services and assist the City with compliance and implementation efforts related to the Los Angeles County Municipal Separate Storm Sewer System (MS4) Permit as amended by the State Water Resources Control Board (SWRCB).

The anticipated scope of services includes reviewing current Stormwater Program activities, recommending improvements, assisting with the development of policies, procedures, presentations, and forms, implementing tasks and recommending adjustments to procedures to facilitate implementation, conducting staff and contractor training, performing industrial/commercial facilities inspection services, monitoring the stormwater, complying with regulations for trash waste, preparing semiannual and annual reports with appropriate documentation, and providing related strategic assistance.

In January 2022, the Department of Public Works released a Request for Proposal (RFP) for the upcoming three-year service with two optional years and distributed to engineering firms throughout California utilizing the Information Management System (IMS) platform that specializes in government project notifications. On February 24, 2022, the proposals were received from CWE Corporation and John L. Hunter & Associates. Two sealed envelopes were received from each firm; one with the firm's proposal/qualifications and the other with the firm's fee.

The Director of Public Works and Principal Civil Engineer evaluated the written proposals based on the service approach and understanding, approach to potential challenges, anticipated staffing levels, qualifications and experience of proposed team members including Program Manager and sub consultants on similar services, length of time members have been with the firm and other similar service experience.

In addition to the rating, there was a forty minute interviews that were conducted with both firms. There was an opening introduction statement and presentation followed by a Q&A session. CWE Corporation and John L. Hunter & Associates firms are equally capable and have years of experience providing NPDES and MS4 compliance services to many local municipalities and are well-respected by their industry peers. As such, to go through a transition to a new firm would not yield any net gains.

After the qualification rating was completed, the fee proposals were opened for both firms.

	<i>Three (3) Year Base Service Annual Amount</i>	
	CWE Corporation	J.L. Hunter & Associates
FY 2022-2023	\$269,400	\$278,263
FY 2023-2024	\$202,739	\$269,768
FY 2024-2025	\$217,054	\$269,788
Total	\$689,193	\$817,819
	<i>Two (2) Year Optional Service Annual Amount</i>	
FY 2025-2026	\$252,308	\$282,488
FY 2026-2027	\$240,601	\$280,447
Total	\$492,909	\$562,935

CWE Corporation has the lower cost for services and provides the superior value. With 35+ years of experience in municipal environmental programs, they have developed and implemented comprehensive stormwater management programs for 50 Southern California municipalities, many of whom are within Los Angeles County limits. Over the last four years, CWE Corporation has successfully helped the City improve with MS4 NPDES Permit compliances. For the reporting period from July 1, 2020 to June 30, 2021, the City completed its third full round of water and sediment quality monitoring, conducted over one-hundred seventy Industrial/Commercial (I/C) Facility Inspections, updated a GIS based I/C Facility tracking database to over 1,500 records, and made sixty-five Industrial General Permit (IGP) non-filer referrals to the L.A. Regional Water Quality Control Board (LARWQCB). On January 25, 2021, the City submitted its inaugural Safe Clean Water Program (SCWP), Municipal Program Transfer Agreement (MPTA), Fiscal Year 2020-2021 Annual Budget Plan and received its disbursement share of \$811,389.80 for Measure W. Please note, all costs for these services are from restricted funding, Measure W.

Staff respectfully recommends that the City Council approve a Professional Services Contract, in a form approved by the City Attorney, to CWE Corporation for the City of Gardena NPDES Program Management Services for fiscal years 2022-2023, 2023-2024 and 2024-2025 in the amount of \$689,193 and an additional two-year optional service at the City's discretion.

FINANCIAL IMPACT/COST:

Budget Amount for Fiscal Years 2022-2023 thru Fiscal Years 2024-2025 : \$689,193

Funding Source: Measure W

ATTACHMENTS:

[22-05-18 NPDES MS4 Consultant Agreement_CWE_Rev01.pdf](#)

[Exhibit A_Gardena NPDES-MS4 RFP.pdf](#)

[Exhibit B_CWE Proposal.pdf](#)

APPROVED:

A handwritten signature in blue ink, appearing to read "Clint Osorio", is positioned above a horizontal line.

Clint Osorio, City Manager

CITY OF GARDENA CONSULTANT AGREEMENT WITH CWE

This Agreement is entered into this _____ day of _____, 2022, by and between the **City of Gardena**, a municipal corporation ("City") and **CWE**, a California Corporation ("Consultant"). Based on the mutual promises and covenants contained herein, the Parties hereto agree, as follows.

1. **RECITALS.** This Agreement is made and entered into with respect to the following facts:
 - A. Whereas, City is desirous of obtaining professional consultant to provide National Pollutant Discharge Elimination System (NPDES) program management services and assist City with compliance and implementation efforts related to the Los Angeles County Municipal Separate Storm Sewer System (MS4) Permit;
 - B. Whereas, Consultant has represented that it is qualified by virtue of experience, training, education and expertise to accomplish these services; and
 - C. Whereas, City has determined that the public interest, convenience and necessity require the execution of this Agreement; and
 - D. Whereas, no official or employee of City has a financial interest, within the provisions of sections 1090-1092 of the California Government Code, in the subject matter of this Agreement.

NOW, THEREFORE, for and in consideration of the mutual covenants and conditions contained herein, the parties hereby agree as follows:

2. **TERM OF AGREEMENT.** This Agreement shall commence upon execution and shall continue until completion, unless earlier terminated as provided below.
 - A. Consultant agrees to a three (3) year agreement per Council approval. The Agreement includes an option to continue the Agreement for an additional two (2) years at City's discretion in one-year increments.
 - B. Either party may terminate this Agreement, without cause, by giving thirty (30) days written notice to the other party.
 - C. City may terminate this Agreement for cause by giving thirty (30) days written notice to Consultant. Lack of funding shall be considered cause for terminating this Agreement.
 - D. Upon termination, Consultant shall: (1) promptly discontinue all services affected, unless the notice directs otherwise; and (2) promptly deliver to City

all data, reports, estimates, summaries, and such other information and materials as may have been accumulated or prepared to date by Consultant in performing the services under this Agreement, whether completed or in progress. Consultant shall be entitled to reasonable compensation for the services it performs up to the date of termination; however, if the Agreement is terminated by City for cause, other than lack of funding, or by Consultant without cause, City shall be entitled to deduct any costs it incurs payment to another consultant for Services, which duplicate Consultant's Services to date. In the event of termination for other than cause attributable to Consultant, Consultant shall be deemed released for liability for any work assigned but not completed as of the effective date of termination.

3. **SERVICES.** Consultant agrees to provide the services as specified in the Consultant's Request for Proposal (RFP), Exhibit A, attached hereto and incorporated herein by this reference ("services"). Unless otherwise specified herein, Consultant shall, at its sole cost and expense, furnish all facilities, equipment and personnel which may be required for providing the Services pursuant to this Agreement.
4. **ADDITIONAL SERVICES.** If City determines that additional services are required to be provided by Consultant in addition to the Services set forth above, City shall authorize Consultant to perform such additional services in writing ("Additional Services"). Such Additional Services shall be specifically described and approved by City in writing prior to the performance thereof. Consultant shall be compensated for such Additional Services in accordance with the agreed upon charges therefore as set forth in the written authorization. No compensation shall be paid to Consultant for Additional Services which are not specifically approved by City in writing.
5. **CONSULTANT'S PROPOSAL.** This Agreement shall include Consultant's Proposal to City's RFP, which is incorporated herein as Exhibit B. In the event of any inconsistency between the terms of the proposal and this Agreement, it shall be resolved by giving precedence in the following order: (a) The Agreement (b) Exhibit A (c) Exhibit B.
6. **PERSONNEL.** City has relied upon the professional training and ability of Consultant to perform the services hereunder as a material inducement to enter into this Agreement. Consultant shall provide properly skilled professional and technical personnel to perform all services under this Agreement. In the event that City, in its sole discretion, at any time during the term of this Agreement, desires the removal of any person or persons assigned by Consultant to perform Services pursuant to this Agreement, Consultant shall remove any such person immediately upon receiving notice from City. During the term of this Agreement, Consultant shall provide the services specified in the proposal. Such individual(s) shall not be replaced without the prior written consent of City.
7. **PERFORMANCE BY CONSULTANT.** Consultant shall maintain or exceed the level of competency presently maintained by other similar practitioners in the State of

California, for professional and technical soundness, accuracy and adequacy of all work, advice and material furnished under this Agreement.

8. **TIMING OF PERFORMANCE.** Time is of the essence with respect to Consultant's performance of the Services required by this Agreement. Consultant shall diligently and timely pursue and complete the performance of the Services required of it by this Agreement. City, in its sole discretion, may extend the time for performance of any Service.

9. **MONITORING OF CONSULTANT.** Consultant's performance of this Agreement shall be continuously monitored by the General Services Director/City Engineer. Consultant shall be notified in writing of any deficiency in the performance of this Agreement in a timely manner by the General Services Director/City Engineer. Consultant shall have five (5) business days from receipt of the notification to cure any deficiency to the reasonable satisfaction of the General Services Director/City Engineer. All costs for such corrections shall be borne by Consultant and shall not increase Consultant's fees due hereunder. Should the General Services Director/City Engineer determine that Consultant has not performed its obligation as stated in this Agreement in a satisfactory manner, City may terminate this Agreement for cause as specified in Section 2 above.

10. **COMPENSATION.** Consultant shall be compensated as follows:

A. Amount. City shall compensate Consultant for services rendered pursuant to this Agreement at the rate specified in the attached fee proposal hereto and incorporated herein by reference (Exhibit B).

B. Invoices and Payment. Payment by City to Consultant shall be made upon receipt and approval of invoices for Services rendered. For payment to be made, Consultant's invoice must include an itemization as to the services rendered, date(s) of service, direct and/or subcontract costs and be submitted on an official letterhead or invoice with Consultant's name, address, and telephone number referenced. City shall review the invoices to determine whether services performed, and documents submitted are consistent with this Agreement. Payment shall be made within forty-five (45) days following receipt of the invoice or City shall provide Consultant with a written statement objecting to the charges and stating the reasons therefor. Payment by City under this Agreement shall not be deemed a waiver of defects, even if such defects were known to City at the time of payment.

C. Expenses. Consultant shall not be entitled to any additional compensation for expenses.

11. **INSURANCE REQUIREMENTS.**

A. Commencement of Work. Consultant shall not commence work under this Agreement until it has obtained City approved insurance. Before beginning work hereunder, during the entire period of this Agreement, for any

extensions hereto, and for periods after the end of this Agreement as may be indicated below, Consultant must have and maintain in place all of the insurance coverages required in this Section. Consultant's insurance shall comply with all items specified by this Agreement. Any subcontractors shall be subject to all the requirements of this Section and Consultant shall be responsible to obtain evidence of insurance from each subcontractor and provide it to City before the subcontractor commences work. Alternatively, Consultant's insurance may cover all subcontractors.

- B. Insurance Company Requirements. All insurance policies used to satisfy the requirements imposed hereunder shall be issued by insurers admitted to do business in the State of California. Insurers shall have a current Best's rating of not less than A-:VII, unless otherwise approved by City.
- C. Coverages, Limits and Policy Requirements. Consultant shall maintain the types of coverages and limits indicated below:
1. Commercial General Liability Insurance – a policy for occurrence coverage for bodily injury, personal injury and property damage, including all coverages provided by and to the extent afforded by Insurance Services Office Form CG 2010 ed. 10/93 or 11/85, with no special limitations affecting City. The limit for all coverages under this policy shall be no less than one million dollars (\$1,000,000.00) per occurrence.
 2. Commercial Auto Liability Insurance – a policy including all coverages provided by and to the extent afforded by Insurance Services Office form CA 0001, ed. 12/93, including Symbol 1 (any auto) with no special limitations affecting City. The limit for bodily injury and property damage liability shall be no less than one million dollars (\$1,000,000.00) per accident.
 3. Worker's Compensation and Employers Liability Insurance – a policy which meets all statutory benefit requirements of the Labor Code, or other applicable law, of the State of California. The minimum coverage limits for said insurance shall be no less than one million dollars per claim. The policy shall be issued by an insurance company which is admitted to do business in the State of California and shall contain a clause that the policy may not be canceled without thirty (30) days prior written notice, return receipt requested, is mailed to City.
 4. Professional Errors & Omissions ("E&O") – a policy with minimum limits of not less than One Million Dollars (\$1,000,000.00), combined single limits, per occurrence and aggregate. Architects' and engineers' coverage shall be endorsed to include contractual liability. If the policy is written as a "claims made" policy, the retro date shall be prior to the start of the contract work. Consultant shall obtain and maintain, said E&O liability insurance during the life of this Agreement

and for three years after completion of the work hereunder. This policy shall be issued by an insurance company which is admitted to do business in the State of California.

5. Policy Requirements. The policies set forth above shall comply with the following, as evidenced by the policies or endorsements to the policies:

- a. Additional insureds: "The City Gardena and its elected and appointed boards, officers, officials, agents, employees, and volunteers are additional insureds with respect to: liability arising out of activities performed by or on behalf of the Consultant pursuant to its contract with the City; products and completed operations of the Consultant; premises owned, occupied or used by the Consultant; automobiles owned, leased, hired, or borrowed by the Consultant."
- b. Notice: "Said policy shall not terminate, be suspended, or voided, nor shall it be cancelled, nor the coverage or limits reduced, until thirty (30) days after written notice is given to City."
- c. Other insurance: "The Consultant's insurance coverage shall be primary insurance as respects the City of Gardena, its officers, officials, agents, employees, and volunteers. Any other insurance maintained by the City of Gardena shall be excess and not contributing with the insurance provided by this policy."
- d. Any failure to comply with the reporting provisions of the policies shall not affect coverage provided to the City of Gardena, its officers, officials, agents, employees, and volunteers.
- e. The Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

D. Additional Requirements. The procuring of such required policies of insurance shall not be construed to limit Consultant's liability hereunder nor to fulfill the indemnification provisions and requirements of this Agreement. There shall be no recourse against City for payment of premiums or other amounts with respect thereto. City shall notify Consultant in writing of changes in the insurance requirements. If Consultant does not deposit copies of acceptable insurance policies or endorsements with City incorporating such changes within sixty (60) days of receipt of such notice, Consultant shall be deemed in default hereunder.

E. Deductibles. Any deductible or self-insured retentions over \$25,000 per occurrence must be declared to and approved by City. Any deductible exceeding an amount acceptable to City shall be subject to the following

changes: either the insurer shall eliminate or reduce such deductibles or self-insured retentions with respect to City, its officers, employees, agents and volunteers (with additional premium, if any, to be paid by Consultant); or Consultant shall provide satisfactory financial guarantee for payment of losses and related investigations, claim administration and defense expenses.

- F. Verification of Compliance. Consultant shall furnish City with original policies or certificates and endorsements effecting coverage required by this Agreement. The endorsements are to be signed by a person authorized by the insurer to bind coverage on its behalf. All endorsements are to be received and approved by City before work commences. Not less than fifteen (15) days prior to the expiration date of any policy of insurance required by this Agreement, Consultant shall deliver to City a binder or certificate of insurance with respect to each renewal policy, bearing a notation evidencing payment of the premium therefor, or accompanied by other proof of payment satisfactory to City. Consultant shall provide full copies of any requested policies to City within three (3) days of any such request by City.
- G. Termination for Lack of Required Coverage. If Consultant, for any reason, fails to have in place, at all times during the term of this Agreement, including any extension hereto, all required insurance and coverage, City may immediately obtain such coverage at Consultant's expense and/or terminate this Agreement.
- H. Non-Limiting. Nothing in this Section shall be construed as limiting in any way, the indemnification provision contained in this Agreement, or the extent to which Consultant may be held responsible for payments of damages to persons or property.

12. INDEMNIFICATION. Consultant agrees to defend, indemnify, hold free and harmless the City, its elected officials, officers, agents, employees and volunteers, at Consultant's sole expense, from and against any and all claims, actions, suits or other legal proceedings brought against the City, its elected officials, officers, agents, employees and volunteers arising out of the performance of the Consultant, its employees, and/or authorized subcontractors, of the work undertaken pursuant to this Agreement. The defense obligation provided for hereunder shall apply without any advance showing of negligence or wrongdoing by the Consultant, its employees, and/or authorized subconsultants, but shall be required whenever any claim, action, complaint, or suit asserts as its basis the negligence, errors, omissions or misconduct of the Consultant, its employees, and/or authorized subconsultants, and/or whenever any claim, action, complaint or suit asserts liability against the City, its elected officials, officers, agents, employees and volunteers based upon the work performed by the Consultant, its employees, and/or authorized subconsultants under this Agreement, whether or not the Consultant, its employees, and/or authorized subconsultants are specifically named or otherwise asserted to be liable. Notwithstanding the foregoing, the Consultant shall not be liable for the defense or indemnification of the City for claims, actions, complaints or suits arising out of the

sole negligence or willful misconduct of the City. Notwithstanding the foregoing, to the extent Consultant's services are subject to Civil Code Section 2782.8, the above indemnity and defense shall be limited to the extent required by Civil Code Section 2782.8, to claims that arise out of, pertain to, or relate to the negligence, recklessness, or misconduct of Consultant. This provision shall supersede and replace all other indemnity provisions contained either in the City's specifications or Consultant's Proposal, which shall be of no force and effect.

13. **COOPERATION.** In the event any claim or action is brought against City relating to Consultant's performance or services rendered under this Agreement, Consultant shall render any reasonable assistance and cooperation which City might require.
14. **INDEPENDENT CONTRACTOR.** Consultant is and shall be acting at all times as an independent contractor and not as an employee of City. Consultant shall have no power to incur any debt, obligation, or liability on behalf of City or otherwise act on behalf of City as an agent. Neither City nor any of its agents shall have control over the conduct of Consultant or any of Consultant's employees, except as set forth in this Agreement. Consultant shall not, at any time, or in any manner, represent that it or any of its agents or employees are in any manner agents or employees of City. Consultant shall secure, at its sole expense, and be responsible for any and all payment of Income Tax, Social Security, State Disability Insurance Compensation, Unemployment Compensation, and other payroll deductions for Consultant and its officers, agents, and employees, and all business licenses, if any are required, in connection with the services to be performed hereunder. Consultant shall indemnify and hold City harmless from any and all taxes, assessments, penalties, and interest asserted against City by reason of the independent contractor relationship created by this Agreement. Consultant further agrees to indemnify and hold City harmless from any failure of Consultant to comply with the applicable worker's compensation laws. City shall have the right to offset against the amount of any fees due to Consultant under this Agreement any amount due to City from Consultant as a result of Consultant's failure to promptly pay to City any reimbursement or indemnification arising under this paragraph.
15. **PERS ELIGIBILITY INDEMNIFICATION.** In the event that Consultant or any employee, agent, or subcontractor of Consultant providing services under this Agreement claims or is determined by a court of competent jurisdiction or the California Public Employees Retirement System (PERS) to be eligible for enrollment in PERS as an employee of the City, Consultant shall indemnify, defend, and hold harmless City for the payment of any employee and/or employer contributions for PERS benefits on behalf of Consultant or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of City.

Notwithstanding any other agency, state or federal policy, rule, regulation, law or ordinance to the contrary, Consultant and any of its employees, agents, and subcontractors providing service under this Agreement shall not qualify for or become entitled to, and hereby agree to waive any claims to, any compensation, benefit, or any incident of employment by City, including but not limited to eligibility

to enroll in PERS as an employee of City and entitlement to any contribution to be paid by City for employer contribution and/or employee contributions for PERS benefits.

16. **NON-LIABILITY OF CITY.** No official, employee, agent or volunteer of City shall be personally liable for any default or liability under this Agreement.
17. **OWNERSHIP OF WORK PRODUCT.** All documents or other information created, developed, or received by Consultant shall, for purposes of copyright law, be deemed works made for hire for City by Consultant as City employee(s) for hire and shall be the sole property of City. Consultant shall provide City with copies of these items upon demand, and in any event, upon termination or expiration of this Agreement.
18. **CONFIDENTIALITY CLAUSE.** Consultant acknowledges that some of the material and information that may come into its possession or knowledge in connection with this Agreement or its performance may consist of information that is exempt from disclosure to the public or other unauthorized persons under either state or federal ("Confidential Information"). Confidential Information includes, but is not limited to, names, addresses, Social Security numbers, e-mail addresses, telephone numbers, financial profiles, credit card information, driver's license numbers, medical data, law enforcement records, agency source code or object code, agency security data, or information identifiable to an individual that relates to any of these types of information. Consultant agrees to hold Confidential Information in strictest confidence and not to make use of Confidential Information for any purpose other than the performance of this Agreement, to release it only to authorized employees or Sub-consultants requiring such information for the purposes of carrying out this Agreement, and not to release, divulge, publish, transfer, sell, disclose, or otherwise make the information known to any other party without City's express written consent or as provided by law. Consultant agrees to release such information or material only to employees or Sub-consultants who have signed a nondisclosure agreement, the terms of which have been previously approved by City. Consultant agrees to implement physical, electronic, and managerial safeguards to prevent unauthorized access to Confidential Information.

"Personal information" including, but not limited to, "Protected Health Information" (PHI) under Health Insurance Portability And Accountability Act (HIPAA), individuals' names, addresses, phone numbers, birth dates, and social security numbers collected, used, or acquired in connection with this Agreement shall be protected against unauthorized use, disclosure, modification or loss.

HIPAA establishes national minimum standards for the use and disclosure of certain health information. The Consultant must comply with all HIPAA requirements and rules when determined applicable by the City. If City determines that (1) City is a "covered entity" under HIPAA, and that (2) Consultant will perform "business associate" services and activities covered under HIPAA, then at City's request, Consultant agrees to execute City's Agreement in compliance with HIPAA.

Consultant shall ensure its directors, officers, employees, Sub-consultants or agents use personal information solely for the purposes of accomplishing the services set forth herein. Consultant and its Sub-consultants agree not to release, divulge, publish, transfer, sell or otherwise make known to unauthorized persons personal information without the express written consent of the City or as otherwise required by law.

Any breach of this provision may result in termination of the Agreement and demand for return of all personal information. Moreover, Consultant will indemnify and hold the City harmless from and against all losses and damages resulting from any unauthorized or improper disclosure, dissemination or use of the information as a result, in whole or in part, of Consultant's action or inaction.

19. **NONUSE OF INTELLECTUAL PROPERTY OF THIRD PARTIES.** Contractor shall not use, disclose or copy any intellectual property of any third parties in connection with work carried out under this Agreement, except for intellectual property for which Contractor has a license. Contractor shall indemnify and hold City harmless against all claims raised against City based upon allegations that Contractor has wrongfully used intellectual property of others in performing work for City, or that City has wrongfully used intellectual property developed by Contractor pursuant to this Agreement.
20. **WAIVER OR BREACH.** No waiver of any provision of this Agreement shall be deemed, or shall constitute, a waiver of any other provision, whether or not similar, nor shall any such waiver constitute a continuing or subsequent waiver of the same provision. No waiver shall be binding, unless executed in writing by the party making the waiver.
21. **COMPLIANCE WITH LAWS.** Consultant warrants that it shall perform the services required by this Agreement in compliance with all applicable Federal and California employment laws, including, but not limited to, those laws related to minimum hours and wages; occupational health and safety; fair employment and employment practices; workers' compensation insurance and safety in employment; and all other Federal, State and local laws and ordinances applicable to the services required under this Agreement. Consultant shall indemnify and hold harmless City from and against all claims, demands, payments, suits, actions, proceedings, and judgments of every nature and description including attorneys' fees and costs, presented, brought, or recovered against City for, or on account of any liability under any of the above-mentioned laws, which may be incurred by reason of Consultant's performance under this Agreement.
22. **CONFLICT OF INTEREST AND REPORTING.** Consultant shall at all times avoid conflicts of interest or the appearance of a conflict of interest in the performance of this Agreement. If required, Consultant shall comply with the City's Conflict of Interest reporting requirements. Consultant understands that pursuant to Gardena Municipal Code sections 2.24.020H and 2.24.025G, it is forbidden to make any contribution to a candidate or committee of a candidate for a municipal office of the

City, or to an officeholder, until the completion of services to be performed under this Agreement.

23. **NON-DISCRIMINATION.** Consultant covenants there shall be no discrimination based upon race, color, creed, religion, sex, marital status, age, handicap, national origin, or ancestry, in activity pursuant to this Agreement.
24. **FORCE MAJEURE.** Consultant shall not be in default for failing to perform in accordance with the terms of this Agreement if such failure arises out of causes beyond the control and without the fault or negligence of Consultant.
25. **ASSIGNMENT.** Consultant shall not assign or subcontract any of its obligations pursuant to this Agreement, nor any part thereof, except for any monies due the Consultant, without the prior written consent of City. Such consent by City shall not be unreasonably withheld. Consultant shall be fully responsible to City for all work performed by assignees or subcontractors.
26. **NOTICES.** Whenever it shall be necessary for either party to serve notice on the other respecting this Agreement, such notice shall be in writing and shall be given by personal service upon the party to be notified, or by deposit of the same in the custody of the United States Postal Service, postage prepaid, addressed to the party to be notified as follows:

To City: City of Gardena
 1700 West 162nd Street
 Gardena, California 90247
 Attn: Allan Rigg
 Director of Public Works

To Consultant: CWE
 1561 E. Orangethorpe Ave, Suite 240
 Fullerton, CA 92831-5202
 Attn: Gerald Greene
 Director, Stormwater

Notices shall be deemed to have been served upon the date of personal service or three (3) working days after the same has been deposited in the United States Postal Service.

27. **LICENSED STATUS.** Consultant shall, at all times during the term of this Agreement, have in full force and effect, all licenses required of it by law, including, but not limited to, a City Business License.
28. **FAMILIARITY WITH WORK.** By executing this Agreement, Consultant warrants that: (1) it has investigated the work to be performed; (2) it has investigated the site of the work and is aware of all conditions there; and (3) it understands the difficulties and restrictions of the work under this Agreement. Should Consultant discover any conditions materially differing from those inherent in the work or as represented by

City, it shall immediately inform City and shall not proceed, except at Consultant's own risk, until written instructions are received from City.

29. **PUBLIC RECORD ACT DISCLOSURE.** Consultant has been advised and is aware that this Agreement and all reports, documents, information and data, including, but not limited to, computer tapes, discs or files furnished or prepared by Consultant, or any of its subcontractors, pursuant to this Agreement and provided to City may be subject to public disclosure as required by the California Public Records Act (California Government Code section 6250 *et seq.*). Exceptions to public disclosure may be those documents or information that qualify as trade secrets, as that term is defined in the California Government Code section 6254.7, and of which Consultant informs City of such trade secret. The City will endeavor to maintain as confidential all information obtained by it that is designated as a trade secret. The City shall not, in any way, be liable or responsible for the disclosure of any trade secret including, without limitation, those records so marked if disclosure is deemed to be required by law or by order of the Court.

30. **MAINTENANCE OF RECORDS.** Consultant shall maintain for a minimum of three (3) years from the completion date of the Services under this Agreement, the following records:

- A. All accounts and records, including personnel, property and financial, adequate to identify and account for all costs pertaining to this Agreement and assume proper accounting for all funds;
- B. Records which establish that Consultant and all subcontractors who render Services under this Agreement are in full compliance with the requirements of this Agreement and all federal, state and local laws and regulations;
- C. Any additional records deemed necessary by City to assume verification of full compliance with this Agreement.
- D. The aforementioned records shall be made available to City or any authorized representative thereof upon request for audit.

31. **BINDING EFFECT.** This Agreement shall be binding upon the heirs, executors, administrators, successors and assigns of the parties hereto.

32. **GOVERNING LAW.** This Agreement shall be interpreted and construed according to the laws of the State of California. Any action commenced about this Agreement shall be filed in the appropriate branch of the Los Angeles County Municipal or Superior Court.

33. **SECTION HEADINGS.** The Section headings used in this Agreement are for reference purposes only and shall have no binding effect.

34. **AUTHORITY TO EXECUTE.** The persons executing this Agreement on behalf of the parties warrant that they are duly authorized to execute this Agreement.

35. **ATTORNEY'S FEES.** In the event that legal action is necessary to enforce the provisions of this Agreement, or to declare the rights of the parties hereunder, the parties agree that the prevailing party in the legal action shall be entitled to recover attorney's fees and court costs from the opposing party.
36. **PREPARATION OF AGREEMENT.** Each party acknowledges that it has had an adequate opportunity to review each and every provision in this Agreement and to submit the same to counsel and other consultants for review and comment and that the parties jointly drafted this Agreement. No provision of this Agreement or any Assignment shall be construed more strictly against one party than the other party by reason that one or the other party proposed, drafted or modified such provision or any other existing or proposed provision.
37. **SEVERABILITY.** If any term or portion of this Agreement is held to be invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions of this Agreement shall continue in full force and effect.
38. **ENTIRE AGREEMENT.** This Agreement contains the entire understanding between City and Consultant. Any prior agreement, promises, negotiations or representations not expressly set forth herein are of no force or effect. Subsequent modifications to this Agreement shall be effective only if in writing and signed by both parties. This Agreement may be signed by the parties hereto in separate counterparts, including both counterparts that are executed on paper and counterparts that are in the form of electronic signatures. Electronic signatures include facsimile or email electronic signatures. Each executed counterpart shall be deemed an original. All counterparts, taken together, constitute the executed Agreement. If any term, condition or covenant of this Agreement is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions of this Agreement shall be valid and binding.

The parties hereby acknowledge and agree that electronic records and electronic signatures, as well as facsimile signatures, used in connection with the execution of this Agreement and electronic signatures, facsimile signatures or signatures transmitted by electronic mail in so-called pdf format shall be legal and binding and shall have the same full force and effect as if a paper original of this Agreement had been delivered and had been signed using a handwritten signature. City and Consultant (i) agree that an electronic signature, whether digital or encrypted, of a party to this Agreement is intended to authenticate this writing and to have the same force and effect as a manual signature, (ii) intend to be bound by the signatures (whether original, faxed or electronic) on any document sent or delivered by facsimile or, electronic mail, or other electronic means, (iii) are aware that the other party will rely on such signatures, and (iv) hereby waive any defenses to the enforcement of the terms of this Agreement based on the foregoing forms of signature. If this Agreement has been executed by electronic signature, all parties executing this document are expressly consenting under the United States Federal Electronic Signatures in Global and National Commerce Act of 2000 ("E-

SIGN") and California Uniform Electronic Transactions Act ("UETA")(Cal. Civ. Code § 1633.1, et seq.), that a signature by fax, email or other electronic means shall constitute an Electronic Signature to an Electronic Record under both E-SIGN and UETA with respect to this specific transaction.

IN WITNESS WHEREOF, City and Consultant have executed this Agreement as of the date first hereinabove set forth.

CITY OF GARDENA

CONSULTANT – CWE

Tasha Cerda, Mayor

Vik Bapna

Name

ATTEST:

Sign:

Title: CEO



Mina Semenza, City Clerk

Jason Pereira

Name

APPROVED AS TO FORM:

Sign:

Title: Secretary





Carmen Vasquez, City Attorney



CITY OF GARDENA

PUBLIC WORKS

REQUEST FOR PROPOSAL (RFP)

TO PROVIDE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
(NPDES) PROGRAM MANAGEMENT SERVICES

JANUARY 2022

Memoranda:

Proposal Due: Thursday, February 24, 2021, 4:00 P.M.

Public Works Department – Public Works: (310) 217-9568

REQUEST FOR PROPOSALS TO PROVIDE
NPDES PROGRAM MANAGEMENT SERVICES

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1.0 OVERVIEW

The City of Gardena (City) is soliciting proposals from qualified and experienced firms to provide National Pollutant Discharge Elimination System (NPDES) program management services and assist the City with compliance and implementation efforts related to the Los Angeles County Municipal Separate Storm Sewer System (MS4) Permit. The City seeks qualified firms to assist with the compliance efforts under the current permit and in accordance with the terms and conditions prescribed in this Request for Proposals (RFP).

The City makes no representation or guarantee as to, and shall not be responsible for, the accuracy, completeness, or pertinence of the Reference Documents, and, in addition shall not be responsible for any conclusions drawn therefrom. They are made available to the Proposer for the purpose of providing such information as is in the possession of the City, whether or not such information may be accurate, complete or pertinent, or of any value.

The agreement is expected to begin in July 2022 and extend for three years, with an option authorizing the Public Works Director or his/her representative to renew the agreement for two additional years.

Questions regarding this RFP shall be directed to Kevin Kwak, Principal Civil Engineer, at (310) 217-9643 or kkwak@cityofgardena.org.

Deadline to submit a proposal is February 24, 2022, at 4:00 p.m. Three (3) hard copies and one complete PDF copy (on USB memory stick) shall be addressed to:

City of Gardena
Department of Public Works
1717 West 162nd Street
Gardena, CA 90247
Attn: Kevin Kwak, P.E.

Proposal packages received after the deadline will not be accepted and will be returned unopened.

The City currently anticipates conducting the selection process in accordance with the following schedule. This schedule is subject to revision and the City reserves the right to modify the schedule as needed or necessary.

RFP released	January 27, 2022
Deadline for questions, clarifications	February 14, 2022
Proposal due	February 24, 2022
Consultant interviews (if necessary)	March 10, 2022
Consultant selection and Council award	April 12, 2022

2.0 BACKGROUND

The City of Gardena is located in the South Bay region of Los Angeles County and Dominguez Channel Region. The population of the City is approximately 59,000 and occupies approximately six (6) square miles and is primarily built-out, with a few remaining undeveloped parcels and a 9.4-acre wetland preserve, the Gardena Willows Wetland Preserve, is located at the southeast corner of Gardena. Gardena

is bordered by the City of Torrance, Hawthorne, Carson, Los Angeles (L.A.), and County of Los Angeles, including their unincorporate area.

The City of Gardena (WDID 4 19M1000113) is soliciting proposals from qualified and experienced firms to provide the National Pollutant Discharge Elimination Systems (NPDES) program management services and assist the City with compliance efforts related to the Individual and Watershed Los Angeles County Municipal Separate Storm Water System (MS4) NPDES Permit No. CAS004001; Regional Water Quality Control Board, Los Angeles Region (LARWQCB) Order No. R4-2012-0175, as amended by the State Water Resources Control Board (SWRCB) Order WQ 2015-0075, and LARWQCB Order No. R4-202-0175-A01 and the 2021 new Permit Order CAS004004.

The current permit may be viewed on the State of California Regional Water Control Board Los Angeles website:

https://www.waterboards.ca.gov/losangeles/water_issues/programs/stormwater/municipal/losangeles.html

During the MS4 NPDES Permit reporting period from July 1, 2020 to June 30, 2021, the City completed its third full round of water and sediment quality monitoring, conducted over one-hundred seventy Industrial/Commercial (I/C) Facility Inspections, updated its GIS based I/C Facility tracking database to over 1500 records, and made sixty-five Industrial General Permit (IGP) non-filer referrals to the LARWQCB. On January 25, 2021, the City submitted its inaugural Safe Clean Water Program (SCWP), Municipal Program Transfer Agreement (MPTA), Fiscal Year 2020-2021 Annual (Budget) Plan and received its disbursement share of \$811,389.80. Refer to the attached City's Annual Plan for details.

The City is not formally affiliated with a WMP/EWMP and has been performing a baseline individual monitoring two dry and three wet weather monitoring events per year. The LARWQCB EO approved the City of Gardena's Request to Modify the Board Directive to Commence Baseline Monitoring Pursuant to the Monitoring and Reporting Program as Set Forth in the Los Angeles MS4 Permit. Respondents shall assume that the City is to continue the same baseline approach for the purpose of submitting the proposal. However, the City plans to revisit the decision following the July 23, 2021, adoption of the fifth term permit.

3.0 SCOPE OF SERVICES

The anticipated scope of services includes a review of current Stormwater Program activities, recommendations for improvement, assisting with the development of policies, procedures, presentations, and forms. Implementing tasks and recommending adjustments in procedures to facilitate implementation, conducting staff and contractor training, performing inspection services, preparing annual reports with appropriate documentation, and providing related strategic assistance. Respondents are advised to read this information carefully prior to submitting a proposal.

Respondents should have significant experience and familiarity with working with the Los Angeles Regional Water Quality Control Board (LARWQCB), complying with the MS4 NPDES Permit Program, Total Maximum Daily Loads (TMDLs) requirements for the Dominguez Channel and be familiar with the baseline individual monitoring in addition to the Watershed Management Program (WMP), Enhanced Watershed

Management Plan (EWMP) and Coordinate Integrated Monitoring Program (CIMP) to inform and make recommendations to the City to join the group(s).

In addition to specific tasks identified in this RFP, it is the intent of the City that the selected firm will provide additional compliance related support, as needed, based on an approved schedule of hourly rates or prior negotiated lump sum.

The Water Quality Act of 1978 added Section 402(p) to the federal Clean Water Act. This section required the United States Environmental Protection Agency (USEPA) to regulate the discharge of storm water and urban runoff to the waters of the United States, thus setting forth the National Pollutant Discharge Elimination System (NPDES) Program.

The Consultant shall provide services to assist the City in complying with the NPDES permit. The Consultant's services shall include, but not limited to:

A. Administration – The consultant shall assign a Program Manager that will be the main point of contact with City staff. The Program Manager must be available to:

1. Keep City staff informed of the various State and Regional Permit mandates, regulations, and initiatives. Provide written report to City staff on the discussion topics, critical dates, action items and recommendations on quarterly basis.
2. Conduct a program review and develop recommendations that can be used to help determine annual and long-term effectiveness of the stormwater program.
3. Meet quarterly or as required with City staff to review progress in performing required tasks involving Permit compliance and Baseline implementation.
4. Develop and deliver Permit training, including the newly adopted 2021 permit, to three (3) groups/audiences of staff annually.
5. Consultant shall update the City's NPDES Program folders with MS4 permit related documents as necessary.
6. Provide Public Education and Outreach materials for distribution and updates for city website.
7. Review, edit, update, and/or assist with the development of relevant ordinances or other regulatory mechanisms to maintain adequate legal authority to meet the requirements of the Permit.
8. Assist the City in reviewing the effectiveness of the enforcement program and recommend changes to improve the enforcement program.
9. Prepare, with input from the City, the Los Angeles County MS4 Permit Annual Report for submittal to the Regional Water Board by December 15th of each year. Informed that the City's current consultant is to complete the FY 2021-2022 annual reporting, therefore an six months overlap services are anticipated during July 1st to December 15, 2022.
10. Prepare, with input from the City, the Safe Clean Water Program (SCWP) annual plan and reporting per Municipal Program Transfer Agreement (MPTA).
11. Assist with the preparation of the Report of Waste Discharge (new Permit reapplication documents) as required by the Permit. Reapplication documents are due 180 days prior to Permit expiration.

12. City has installed Automatic Retractable Screens (ARS) and Connector Pipe Screen (CPS) on City-owned and plan to also install Los Angeles County-owned catch basins. Provide updates and recommendations to verify compliance with Statewide Trash Amendments.
13. Develop recommendations, policies and procedures to achieve compliance with TMDLs.
14. Verify and/or assist City with Compliance plans to minimize stormwater pollution impacts from City-owned or operated facilities and activities. Prepare/update an inventory and map of all Permittee-owned or operated facilities are up to compliance. Verify that implemented activity specific BMPs such as catch basin cleaning, open channel maintenance, street sweeping, and appropriate pesticide applications are up to current compliance standards.
15. Identify funding opportunity and assist City with applying for stormwater related grants.

B. Industrial/Commercial Facilities Inspection Program

1. Perform stormwater related inspections of all designated (critical Commercial Source approximately 510 & critical Industrial Sources approximately 230) industrial and commercial facilities as required by the Permit.
2. Update the Watershed-based database of all industrial and commercial facilities.
3. Distribute appropriate BMPs to facilities (e.g., CASQA manual) during inspections. Verify proper implementation of BMPs at industrial/commercial facilities to reduce the contribution of pollutants to the MS4 from industrial/commercial activities.
4. Conduct follow-up inspections that are required by the Permit.

C. Development Construction Program

1. Provide guidance and assist staff with record keeping as part of the NPDES-compliance inspection effort(s) for ongoing construction projects (as requested).
2. Assist in development of the City's Capital Improvement Project NPDES supplemental specifications as needed.

D. Illicit Connections and Illicit Discharges (IC/ID) Elimination Program

1. Evaluate existing policies and enhance existing procedures for eliminating the source of IC/IDs. Provide support with implanting requirements such as identifying and assessing priority areas, GIS mapping, identifying and inspecting specific types of businesses and stormwater pollution sources, conducting illicit discharge detection and elimination source investigations and corrective actions, and preparing, reviewing and updating the spill response plan.
2. Verify that the developed and implemented Outfall Screening and Inventory Program is updated.
3. Verify that the developed procedures for conducting source investigation for IC/IDs are current and in compliance with regulations and standards.

E. Implement Integrated Monitoring Program

1. Baseline Monitoring services pursuant to the Monitoring and Reporting Program per the Los Angeles MS4 Permit. Coordination with EWMP/WMP groups performing receiving water

monitoring, and obtain copies of monitoring data for City staff for use in reporting to the LARWQCB are required in-lieu of baseline monitoring if City decides to join the groups. Part of this process may require development and implementation of MOUs and other agreements.

2. Prepare/update a GIS-based outfall inventory including all fields required by the MS4 permit.
3. Perform stormwater outfall-based monitoring at sites identified in the City's IMP three times per year and/or as required by the NPDES permit. Cost includes lab testing for listed or revised list of constituents in permit.
4. Coordinate inspection of City outfalls and record observations of any significant non-storm water flow.
5. Investigate any dissolved significant non-storm water flows to determine the source of the flow.

F. Statewide Trash Amendments Submittal

1. Prepare and submit electronically the jurisdictional maps with information as requested in the 13383 Order from the Regional Water Board.

G. Adaptive Management Process Submittal

1. Prepare and submit electronically an Adaptive Management Process every two years as required by the Permit.

H. Load Reduction Strategy Implementation Assistance

1. Assist the City with implementation of a Load Reduction Strategy as part of the Los Angeles River bacteria TMDL (dry weather portion).

I. Reasonable Assurance Analysis Update

1. Prepare and submit electronically an updated Reasonable Assurance Analysis as required by the Permit and Regional Water Board direction.

J. Report of Waste Discharge Preparation and Submittal

1. Assist with the preparation and electronic submittal of the Report of Waste Discharge (new Permit reapplication documents) as required by the Permit. The reapplication documents are due to the Regional Water Board 180 days prior to the current permit expiration date.

K. Perform Additional As-Needed NPDES Services - In addition to specific tasks identified above and upon prior approval from the Public Works Director or designated staff, the selected proposer may from time to time be asked to provide additional NPDES compliance related professional support services, as needed, based on approved schedule of hourly rates or negotiated lump sum price. Prior to commencing additional services, an executed Work Order must be issued by the City. Additional services may include, but are not limited to:

1. Develop/Update a GIS database to track inspections of construction projects within the City. Database shall include all fields required by the Los Angeles MS4 Permit.
2. Update database on a monthly basis with information provided by the City.

3. Develop/update a GIS database of all City-owned or operated facilities.
4. Coordinate with staff to verify proper Best Management Practice (BMPs) at facilities that currently do not have BMPs on or at City Facilities.
5. Assist the City with preparing a list of candidates for retrofitting opportunities for the implementation of infiltration BMPs on or at City facilities.
6. Develop/update a GIS-based database for all reported and investigated IC/IDs. Database shall include all fields required by the Los Angeles MS4 Permit.

4.0 RFP SUBMITTAL REQUIREMENTS

The City requires the proposer to submit a concise proposal clearly addressing all of the requirements outlined in this RFP. The proposal shall be signed by someone authorized by the proposer to execute a contract between the City and proposer. Proposal must include, at a minimum, the following sections; however, the proposer is encouraged to expand on the scope to fully address the project issues and deliver the completed improvements:

1. **Scope of Services Methodology and Understanding** – Description which enable the City of Gardena to assess the proposer’s experience and capability to perform the services as outlined in the Scope of Services in a structured and efficient fashion. Details with specific task descriptions to demonstrate that the proposer has considered all aspects of the project and that the proposer will cover them thoroughly. A list of the City’s responsibilities, if any, shall be included. Five pages maximum is allowed.
2. **Potential Challenges** – A description of the anticipated potential challenges that will be faced by the consultant and how the team is skilled and capable to address those challenges. Two pages maximum is allowed.
3. **Personnel/Staffing Levels** – Names of all team members, including specialized legal counsel and sub-consultants, their roles for the services, and length of time with firm and in the industry shall be identified. An organization chart identifying the proposed team members shall also be included. Resumes of the individual(s), specialized legal counsel, and sub-consultants assigned to project shall be provided as an attachment to the proposal. Two pages maximum per individual is allowed.
4. **Representative Project Descriptions and Client Reference** – Provide up to five examples of similar services, including a respective brief description of the proposer’s role(s) and responsibilities for each within the last five years. Additionally, each example shall include the client’s contact name and telephone number. Five pages maximum is allowed collectively. Phone number shall be current, or the proposer will not receive credit for the reference.
5. **Comments Regarding Contract (if any)** – Submit comments, if any, to any clause(s) in the agreement that proposer objects to. Ensure that insurance and contract agreements can be met.

6. **Hourly Breakdown by Task** – The proposal shall provide a table that identifies each subtask and the number of hours assigned to each team member for the task. This provides the City with information on the consultant’s understanding of the level of effort needed for the services. The consultant will not be held to the allocation of hours by subtask as the project moves forward, but will be held to the not to exceed amount identified in the cost estimate for the consulting fee.
7. **Schedule** – The proposal shall provide a schedule for the entire project and identify each deliverable in the schedule. The Consultant shall assume two weeks for City review of all draft documents. All other reviews will be completed within three to five business days.
8. **Cost Estimates of Consulting Fee** – Each proposal shall include service specific fees. The costs are to be broken down by services listed in the Scope of Services and shall indicate the proposed level of effort by staff, sub-consultants, and other overhead costs. A fee schedule outlining hourly rates of the staff levels shall also be included. Additionally, provide the annual total, three (3) years total, optional two (2) year total and its grant total as such:

	Three (3) years base service amount per year
FY 2022-2023	\$
FY 2023-2024	\$
FY 2024-2025	\$
Total	\$
	Two (2) years optional service amount per year
FY 2025-2026	\$
FY 2026-2027	\$
Total	\$
Grant Total	\$

Consultant estimates shall be placed in a separate sealed envelope.

5.0 QUALIFICATIONS

The City intends to select the most qualified consultant available for this assignment that demonstrates a thorough understanding of the City’s needs and the ability to deliver the project in a reasonable timeframe and for a reasonable fee. It is imperative the Consultant’s proposal fully addresses all aspects of the RFP. The proposal must clearly articulate the Consultant’s understanding of the services and the City’s specific requirements.

The City intends to rank the consultants based on the following factors (not necessarily listed in the order of importance):

- Service approach and understanding
- Approach to potential challenges
- Anticipated staffing levels
- Qualifications and experience of proposed team members, including Program Manager and sub-consultants, on similar services

- Length of time team members have been with the firm
- Other similar service experience

Follow-up discussion or contract negotiations with selected consultant may be utilized to finalize the scope of work. If a contract cannot be negotiated with the highest ranked consultant for this project, the negotiations shall be terminated in writing and negotiations shall start with the next highest ranked consultant.

6.0 GENERAL TERMS & CONDITIONS

By submitting a Proposal, the Consultant represents that they have thoroughly examined and became familiar with the requirements of this RFP and can perform quality work to achieve the objectives of the City.

The City reserves the right to withdraw the RFP at any time without prior notice. The City makes no representations that any Agreement will be awarded to any Consultant responding to this RFP. The City reserves the right to extend the deadline for Proposals, postpone reviewing the Proposals for its own convenience, to reject any and all Proposals without indicating any reasons for such rejection(s), and to negotiate with any qualified consultant.

The successful consultant(s) and sub-consultants are required to obtain and maintain a City of Gardena business license and insurance. The license and insurance shall be maintained for the duration of the Agreement. A current business license is not a prerequisite for submittal of the proposal.

The selected firm shall comply with the California Labor Code if applicable. Which requires payment of prevailing wages determined by the Director of the Department of Industrial Relations (<http://www.dir.ca.gov/>), and otherwise comply with the provisions of Section 1770 et seq., of the California Labor Code, California Code of Regulations, Title 8, Section 1600 et seq., and any other applicable laws, rules and regulations adopted with respect thereto ("California Prevailing Wage Laws").

The City is not liable for any costs incurred by the Proposers before entering into a formal agreement. Costs for developing the Proposal or any other such expenses incurred by the Proposer in responding to this RFP and entirely the responsibility of the Proposer and shall not be reimbursed by the City.

The City is not responsible for Proposals which are delinquent, lost, incorrectly marked, sent to the wrong address, or sent by mail or courier service and not signed for by the City.

7.0 AGREEMENT & INSURANCE

The City's Standard Consultant Services Agreement is included in Attachment 1. The Consultant will be expected to enter into the Agreement without substantive changes. Any changes will require approval by the City Attorney.

The City's standard insurance requirements is included as part of the Standard Consultant Services Agreement included in Attachment 1.

8.0 ATTACHMENTS

Attachment A – Standard Consultant Services Agreement (Sample)

Attachment B – City of Gardena MS4 FY 2020-2021 Annual Permit Report

Attachment C – City of Gardena SCWP MPTA FY 2020-2021 Annual Report

Attachment D – City of Gardena SCWP MPTA FY 2021-2022 Annual Plan

**ATTACHMENT A –
Standard Consultant Services Agreement (Sample)**

CITY OF GARDENA CONSULTANT AGREEMENT WITH XYZ

This Agreement is entered into this _____ day of _____, 2022, by and between the **City of Gardena**, a municipal corporation ("City") and **XYZ**, a [state] [type of entity] ("Consultant"). Based on the mutual promises and covenants contained herein, the Parties hereto agree, as follows.

1. **RECITALS.** This Agreement is made and entered into with respect to the following facts:

- A. Whereas, City is desirous of obtaining professional consultant to provide National Pollutant Discharge Elimination System (NPDES) program management services and assist City with compliance and implementation efforts related to the Los Angeles County Municipal Separate Storm Sewer System (MS4) Permit;
- B. Whereas, Consultant has represented that it is qualified by virtue of experience, training, education and expertise to accomplish these services; and
- C. Whereas, City has determined that the public interest, convenience and necessity require the execution of this Agreement; and
- D. Whereas, no official or employee of City has a financial interest, within the provisions of sections 1090-1092 of the California Government Code, in the subject matter of this Agreement.

NOW, THEREFORE, for and in consideration of the mutual covenants and conditions contained herein, the parties hereby agree as follows:

2. **TERM OF AGREEMENT.** This Agreement shall commence upon execution and shall continue until completion, unless earlier terminated as provided below.
 - A. Either party may terminate this Agreement, without cause, by giving thirty (30) days written notice to the other party.
 - B. City may terminate this Agreement for cause by giving thirty (30) days written notice to Consultant. Lack of funding shall be considered cause for terminating this Agreement.
 - C. Upon termination, Consultant shall: (1) promptly discontinue all services affected, unless the notice directs otherwise; and (2) promptly deliver to City all data, reports, estimates, summaries, and such other information and materials as may have been accumulated or prepared to date by Consultant in performing the services under this Agreement, whether completed or in

progress. Consultant shall be entitled to reasonable compensation for the services it performs up to the date of termination; however, if the Agreement is terminated by City for cause, other than lack of funding, or by Consultant without cause, City shall be entitled to deduct any costs it incurs payment to another consultant for Services, which duplicate Consultant's Services to date. In the event of termination for other than cause attributable to Consultant, Consultant shall be deemed released for liability for any work assigned but not completed as of the effective date of termination.

3. **SERVICES.** Consultant agrees to provide the services as specified in the Consultant's Request for Proposal (RFP), Exhibit **A**, attached hereto and incorporated herein by this reference ("services"). Unless otherwise specified herein, Consultant shall, at its sole cost and expense, furnish all facilities, equipment and personnel which may be required for providing the Services pursuant to this Agreement.
4. **ADDITIONAL SERVICES.** If City determines that additional services are required to be provided by Consultant in addition to the Services set forth above, City shall authorize Consultant to perform such additional services in writing ("Additional Services"). Such Additional Services shall be specifically described and approved by City in writing prior to the performance thereof. Consultant shall be compensated for such Additional Services in accordance with the agreed upon charges therefore as set forth in the written authorization. No compensation shall be paid to Consultant for Additional Services which are not specifically approved by City in writing.
5. **CONSULTANT'S PROPOSAL.** This Agreement shall include Consultant's Proposal to City's RFP, which is incorporated herein as Exhibit **B**. In the event of any inconsistency between the terms of the proposal and this Agreement, it shall be resolved by giving precedence in the following order: (a) The Agreement (b) Exhibit A (c) Exhibit B.
6. **PERSONNEL.** City has relied upon the professional training and ability of Consultant to perform the services hereunder as a material inducement to enter into this Agreement. Consultant shall provide properly skilled professional and technical personnel to perform all services under this Agreement. In the event that City, in its sole discretion, at any time during the term of this Agreement, desires the removal of any person or persons assigned by Consultant to perform Services pursuant to this Agreement, Consultant shall remove any such person immediately upon receiving notice from City. During the term of this Agreement, Consultant shall provide the services specified in the proposal. Such individual(s) shall not be replaced without the prior written consent of City.
7. **PERFORMANCE BY CONSULTANT.** Consultant shall maintain or exceed the level of competency presently maintained by other similar practitioners in the State of California, for professional and technical soundness, accuracy and adequacy of all work, advice and material furnished under this Agreement.

8. **TIMING OF PERFORMANCE.** Time is of the essence with respect to Consultant's performance of the Services required by this Agreement. Consultant shall diligently and timely pursue and complete the performance of the Services required of it by this Agreement. City, in its sole discretion, may extend the time for performance of any Service.

9. **MONITORING OF CONSULTANT.** Consultant's performance of this Agreement shall be continuously monitored by the General Services Director/City Engineer. Consultant shall be notified in writing of any deficiency in the performance of this Agreement in a timely manner by the General Services Director/City Engineer. Consultant shall have five (5) business days from receipt of the notification to cure any deficiency to the reasonable satisfaction of the General Services Director/City Engineer. All costs for such corrections shall be borne by Consultant and shall not increase Consultant's fees due hereunder. Should the General Services Director/City Engineer determine that Consultant has not performed its obligation as stated in this Agreement in a satisfactory manner, City may terminate this Agreement for cause as specified in Section 2 above.

10. **COMPENSATION.** Consultant shall be compensated as follows:

- A. Amount. City shall compensate Consultant for services rendered pursuant to this Agreement at the rate specified in the attached fee proposal hereto and incorporated herein by reference. In no event shall compensation under this Agreement exceed and 00/00 (\$###.##) without the prior written authorization of the City Council.
- B. Invoices and Payment. Payment by City to Consultant shall be made upon receipt and approval of invoices for Services rendered. For payment to be made, Consultant's invoice must include an itemization as to the services rendered, date(s) of service, direct and/or subcontract costs and be submitted on an official letterhead or invoice with Consultant's name, address, and telephone number referenced. City shall review the invoices to determine whether services performed, and documents submitted are consistent with this Agreement. Payment shall be made within forty-five (45) days following receipt of the invoice or City shall provide Consultant with a written statement objecting to the charges and stating the reasons therefor. Payment by City under this Agreement shall not be deemed a waiver of defects, even if such defects were known to City at the time of payment.
- C. Expenses. Consultant shall not be entitled to any additional compensation for expenses.

11. **INSURANCE REQUIREMENTS.**

- A. Commencement of Work. Consultant shall not commence work under this Agreement until it has obtained City approved insurance. Before beginning work hereunder, during the entire period of this Agreement, for any extensions hereto, and for periods after the end of this Agreement as may be

indicated below, Consultant must have and maintain in place all of the insurance coverages required in this Section. Consultant's insurance shall comply with all items specified by this Agreement. Any subcontractors shall be subject to all the requirements of this Section and Consultant shall be responsible to obtain evidence of insurance from each subcontractor and provide it to City before the subcontractor commences work. Alternatively, Consultant's insurance may cover all subcontractors.

- B. Insurance Company Requirements. All insurance policies used to satisfy the requirements imposed hereunder shall be issued by insurers admitted to do business in the State of California. Insurers shall have a current Best's rating of not less than A-:VII, unless otherwise approved by City.
- C. Coverages, Limits and Policy Requirements. Consultant shall maintain the types of coverages and limits indicated below:
1. Commercial General Liability Insurance – a policy for occurrence coverage for bodily injury, personal injury and property damage, including all coverages provided by and to the extent afforded by Insurance Services Office Form CG 2010 ed. 10/93 or 11/85, with no special limitations affecting City. The limit for all coverages under this policy shall be no less than one million dollars (\$1,000,000.00) per occurrence.
 2. Commercial Auto Liability Insurance – a policy including all coverages provided by and to the extent afforded by Insurance Services Office form CA 0001, ed. 12/93, including Symbol 1 (any auto) with no special limitations affecting City. The limit for bodily injury and property damage liability shall be no less than one million dollars (\$1,000,000.00) per accident.
 3. Worker's Compensation and Employers Liability Insurance – a policy which meets all statutory benefit requirements of the Labor Code, or other applicable law, of the State of California. The minimum coverage limits for said insurance shall be no less than one million dollars per claim. The policy shall be issued by an insurance company which is admitted to do business in the State of California and shall contain a clause that the policy may not be canceled without thirty (30) days prior written notice, return receipt requested, is mailed to City.
 4. Professional Errors & Omissions ("E&O") – a policy with minimum limits of not less than One Million Dollars (\$1,000,000.00), combined single limits, per occurrence and aggregate. Architects' and engineers' coverage shall be endorsed to include contractual liability. If the policy is written as a "claims made" policy, the retro date shall be prior to the start of the contract work. Consultant shall obtain and maintain, said E&O liability insurance during the life of this Agreement and for three years after completion of the work hereunder. This policy

shall be issued by an insurance company which is admitted to do business in the State of California.

5. Policy Requirements. The policies set forth above shall comply with the following, as evidenced by the policies or endorsements to the policies:

- a. Additional insureds: "The City of Gardena and its elected and appointed boards, officers, officials, agents, employees, and volunteers are additional insureds with respect to: liability arising out of activities performed by or on behalf of the Consultant pursuant to its contract with the City; products and completed operations of the Consultant; premises owned, occupied or used by the Consultant; automobiles owned, leased, hired, or borrowed by the Consultant."
- b. Notice: "Said policy shall not terminate, be suspended, or voided, nor shall it be cancelled, nor the coverage or limits reduced, until thirty (30) days after written notice is given to City."
- c. Other insurance: "The Consultant's insurance coverage shall be primary insurance as respects the City of Gardena, its officers, officials, agents, employees, and volunteers. Any other insurance maintained by the City of Gardena shall be excess and not contributing with the insurance provided by this policy."
- d. Any failure to comply with the reporting provisions of the policies shall not affect coverage provided to the City of Gardena, its officers, officials, agents, employees, and volunteers.
- e. The Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

D. Additional Requirements. The procuring of such required policies of insurance shall not be construed to limit Consultant's liability hereunder nor to fulfill the indemnification provisions and requirements of this Agreement. There shall be no recourse against City for payment of premiums or other amounts with respect thereto. City shall notify Consultant in writing of changes in the insurance requirements. If Consultant does not deposit copies of acceptable insurance policies or endorsements with City incorporating such changes within sixty (60) days of receipt of such notice, Consultant shall be deemed in default hereunder.

E. Deductibles. Any deductible or self-insured retentions over \$25,000 per occurrence must be declared to and approved by City. Any deductible exceeding an amount acceptable to City shall be subject to the following changes: either the insurer shall eliminate or reduce such deductibles or self-

insured retentions with respect to City, its officers, employees, agents and volunteers (with additional premium, if any, to be paid by Consultant); or Consultant shall provide satisfactory financial guarantee for payment of losses and related investigations, claim administration and defense expenses.

- F. Verification of Compliance. Consultant shall furnish City with original policies or certificates and endorsements effecting coverage required by this Agreement. The endorsements are to be signed by a person authorized by the insurer to bind coverage on its behalf. All endorsements are to be received and approved by City before work commences. Not less than fifteen (15) days prior to the expiration date of any policy of insurance required by this Agreement, Consultant shall deliver to City a binder or certificate of insurance with respect to each renewal policy, bearing a notation evidencing payment of the premium therefor, or accompanied by other proof of payment satisfactory to City. Consultant shall provide full copies of any requested policies to City within three (3) days of any such request by City.
- G. Termination for Lack of Required Coverage. If Consultant, for any reason, fails to have in place, at all times during the term of this Agreement, including any extension hereto, all required insurance and coverage, City may immediately obtain such coverage at Consultant's expense and/or terminate this Agreement.
- H. Non-Limiting. Nothing in this Section shall be construed as limiting in any way, the indemnification provision contained in this Agreement, or the extent to which Consultant may be held responsible for payments of damages to persons or property.

12. INDEMNIFICATION. Consultant agrees to defend, indemnify, hold free and harmless the City, its elected officials, officers, agents, employees and volunteers, at Consultant's sole expense, from and against any and all claims, actions, suits or other legal proceedings brought against the City, its elected officials, officers, agents, employees and volunteers arising out of the performance of the Consultant, its employees, and/or authorized subcontractors, of the work undertaken pursuant to this Agreement. The defense obligation provided for hereunder shall apply without any advance showing of negligence or wrongdoing by the Consultant, its employees, and/or authorized subconsultants, but shall be required whenever any claim, action, complaint, or suit asserts as its basis the negligence, errors, omissions or misconduct of the Consultant, its employees, and/or authorized subconsultants, and/or whenever any claim, action, complaint or suit asserts liability against the City, its elected officials, officers, agents, employees and volunteers based upon the work performed by the Consultant, its employees, and/or authorized subconsultants under this Agreement, whether or not the Consultant, its employees, and/or authorized subconsultants are specifically named or otherwise asserted to be liable. Notwithstanding the foregoing, the Consultant shall not be liable for the defense or indemnification of the City for claims, actions, complaints or suits arising out of the sole negligence or willful misconduct of the City. Notwithstanding the foregoing, to

the extent Consultant's services are subject to Civil Code Section 2782.8, the above indemnity and defense shall be limited to the extent required by Civil Code Section 2782.8, to claims that arise out of, pertain to, or relate to the negligence, recklessness, or misconduct of Consultant. This provision shall supersede and replace all other indemnity provisions contained either in the City's specifications or Consultant's Proposal, which shall be of no force and effect.

13. **COOPERATION.** In the event any claim or action is brought against City relating to Consultant's performance or services rendered under this Agreement, Consultant shall render any reasonable assistance and cooperation which City might require.
14. **INDEPENDENT CONTRACTOR.** Consultant is and shall be acting at all times as an independent contractor and not as an employee of City. Consultant shall have no power to incur any debt, obligation, or liability on behalf of City or otherwise act on behalf of City as an agent. Neither City nor any of its agents shall have control over the conduct of Consultant or any of Consultant's employees, except as set forth in this Agreement. Consultant shall not, at any time, or in any manner, represent that it or any of its agents or employees are in any manner agents or employees of City. Consultant shall secure, at its sole expense, and be responsible for any and all payment of Income Tax, Social Security, State Disability Insurance Compensation, Unemployment Compensation, and other payroll deductions for Consultant and its officers, agents, and employees, and all business licenses, if any are required, in connection with the services to be performed hereunder. Consultant shall indemnify and hold City harmless from any and all taxes, assessments, penalties, and interest asserted against City by reason of the independent contractor relationship created by this Agreement. Consultant further agrees to indemnify and hold City harmless from any failure of Consultant to comply with the applicable worker's compensation laws. City shall have the right to offset against the amount of any fees due to Consultant under this Agreement any amount due to City from Consultant as a result of Consultant's failure to promptly pay to City any reimbursement or indemnification arising under this paragraph.
15. **PERS ELIGIBILITY INDEMNIFICATION.** In the event that Consultant or any employee, agent, or subcontractor of Consultant providing services under this Agreement claims or is determined by a court of competent jurisdiction or the California Public Employees Retirement System (PERS) to be eligible for enrollment in PERS as an employee of the City, Consultant shall indemnify, defend, and hold harmless City for the payment of any employee and/or employer contributions for PERS benefits on behalf of Consultant or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of City.

Notwithstanding any other agency, state or federal policy, rule, regulation, law or ordinance to the contrary, Consultant and any of its employees, agents, and subcontractors providing service under this Agreement shall not qualify for or become entitled to, and hereby agree to waive any claims to, any compensation, benefit, or any incident of employment by City, including but not limited to eligibility to enroll in PERS as an employee of City and entitlement to any contribution to be

paid by City for employer contribution and/or employee contributions for PERS benefits.

16. **NON-LIABILITY OF CITY.** No official, employee, agent or volunteer of City shall be personally liable for any default or liability under this Agreement.
17. **OWNERSHIP OF WORK PRODUCT.** All documents or other information created, developed, or received by Consultant shall, for purposes of copyright law, be deemed works made for hire for City by Consultant as City employee(s) for hire and shall be the sole property of City. Consultant shall provide City with copies of these items upon demand, and in any event, upon termination or expiration of this Agreement.
18. **CONFIDENTIALITY CLAUSE.** Consultant acknowledges that some of the material and information that may come into its possession or knowledge in connection with this Agreement or its performance may consist of information that is exempt from disclosure to the public or other unauthorized persons under either state or federal ("Confidential Information"). Confidential Information includes, but is not limited to, names, addresses, Social Security numbers, e-mail addresses, telephone numbers, financial profiles, credit card information, driver's license numbers, medical data, law enforcement records, agency source code or object code, agency security data, or information identifiable to an individual that relates to any of these types of information. Consultant agrees to hold Confidential Information in strictest confidence and not to make use of Confidential Information for any purpose other than the performance of this Agreement, to release it only to authorized employees or Sub-consultants requiring such information for the purposes of carrying out this Agreement, and not to release, divulge, publish, transfer, sell, disclose, or otherwise make the information known to any other party without City's express written consent or as provided by law. Consultant agrees to release such information or material only to employees or Sub-consultants who have signed a nondisclosure agreement, the terms of which have been previously approved by City. Consultant agrees to implement physical, electronic, and managerial safeguards to prevent unauthorized access to Confidential Information.

"Personal information" including, but not limited to, "Protected Health Information" (PHI) under Health Insurance Portability And Accountability Act (HIPAA), individuals' names, addresses, phone numbers, birth dates, and social security numbers collected, used, or acquired in connection with this Agreement shall be protected against unauthorized use, disclosure, modification or loss.

HIPAA establishes national minimum standards for the use and disclosure of certain health information. The Consultant must comply with all HIPAA requirements and rules when determined applicable by the City. If City determines that (1) City is a "covered entity" under HIPAA, and that (2) Consultant will perform "business associate" services and activities covered under HIPAA, then at City's request, Consultant agrees to execute City's Agreement in compliance with HIPAA.

Consultant shall ensure its directors, officers, employees, Sub-consultants or agents use personal information solely for the purposes of accomplishing the services set forth herein. Consultant and its Sub-consultants agree not to release, divulge, publish, transfer, sell or otherwise make known to unauthorized persons personal information without the express written consent of the City or as otherwise required by law.

Any breach of this provision may result in termination of the Agreement and demand for return of all personal information. Moreover, Consultant will indemnify and hold the City harmless from and against all losses and damages resulting from any unauthorized or improper disclosure, dissemination or use of the information as a result, in whole or in part, of Consultant's action or inaction.

19. **NONUSE OF INTELLECTUAL PROPERTY OF THIRD PARTIES.** Contractor shall not use, disclose or copy any intellectual property of any third parties in connection with work carried out under this Agreement, except for intellectual property for which Contractor has a license. Contractor shall indemnify and hold City harmless against all claims raised against City based upon allegations that Contractor has wrongfully used intellectual property of others in performing work for City, or that City has wrongfully used intellectual property developed by Contractor pursuant to this Agreement.
20. **WAIVER OR BREACH.** No waiver of any provision of this Agreement shall be deemed, or shall constitute, a waiver of any other provision, whether or not similar, nor shall any such waiver constitute a continuing or subsequent waiver of the same provision. No waiver shall be binding, unless executed in writing by the party making the waiver.
21. **COMPLIANCE WITH LAWS.** Consultant warrants that it shall perform the services required by this Agreement in compliance with all applicable Federal and California employment laws, including, but not limited to, those laws related to minimum hours and wages; occupational health and safety; fair employment and employment practices; workers' compensation insurance and safety in employment; and all other Federal, State and local laws and ordinances applicable to the services required under this Agreement. Consultant shall indemnify and hold harmless City from and against all claims, demands, payments, suits, actions, proceedings, and judgments of every nature and description including attorneys' fees and costs, presented, brought, or recovered against City for, or on account of any liability under any of the above-mentioned laws, which may be incurred by reason of Consultant's performance under this Agreement.
22. **CONFLICT OF INTEREST AND REPORTING.** Consultant shall at all times avoid conflicts of interest or the appearance of a conflict of interest in the performance of this Agreement. If required, Consultant shall comply with the City's Conflict of Interest reporting requirements. Consultant understands that pursuant to Gardena Municipal Code sections 2.24.020H and 2.24.025G, it is forbidden to make any contribution to a candidate or committee of a candidate for a municipal office of the City, or to an officeholder, until the completion of services to be performed under this

Agreement.

23. **EMPLOYMENT OF ALIENS.** Consultant warrants it fully complies with all laws regarding employment of aliens and others, and that all its employees performing services hereunder meet the citizenship or alien status requirements contained in federal and state statutes and regulations.
24. **NON-DISCRIMINATION.** Consultant covenants there shall be no discrimination based upon race, color, creed, religion, sex, marital status, age, handicap, national origin, or ancestry, in activity pursuant to this Agreement.
25. **FORCE MAJEURE.** Consultant shall not be in default for failing to perform in accordance with the terms of this Agreement if such failure arises out of causes beyond the control and without the fault or negligence of Consultant.
26. **ASSIGNMENT.** Consultant shall not assign or subcontract any of its obligations pursuant to this Agreement, nor any part thereof, except for any monies due the Consultant, without the prior written consent of City. Such consent by City shall not be unreasonably withheld. Consultant shall be fully responsible to City for all work performed by assignees or subcontractors.
27. **NOTICES.** Whenever it shall be necessary for either party to serve notice on the other respecting this Agreement, such notice shall be in writing and shall be given by personal service upon the party to be notified, or by deposit of the same in the custody of the United States Postal Service, postage prepaid, addressed to the party to be notified as follows:

To City: City of Gardena
 1700 West 162nd Street
 Gardena, California 90247
 Attn: Allan Rigg
 Director of Public Works

To Consultant: XYZ
 Address
 XXXX, CA #####
 Attn: Name
 Tittle

Notices shall be deemed to have been served upon the date of personal service or three (3) working days after the same has been deposited in the United States Postal Service.

28. **LICENSED STATUS.** Consultant shall, at all times during the term of this Agreement, have in full force and effect, all licenses required of it by law, including, but not limited to, a City Business License.

29. **FAMILIARITY WITH WORK.** By executing this Agreement, Consultant warrants

that: (1) it has investigated the work to be performed; (2) it has investigated the site of the work and is aware of all conditions there; and (3) it understands the difficulties and restrictions of the work under this Agreement. Should Consultant discover any conditions materially differing from those inherent in the work or as represented by City, it shall immediately inform City and shall not proceed, except at Consultant's own risk, until written instructions are received from City.

30. PUBLIC RECORD ACT DISCLOSURE. Consultant has been advised and is aware that this Agreement and all reports, documents, information and data, including, but not limited to, computer tapes, discs or files furnished or prepared by Consultant, or any of its subcontractors, pursuant to this Agreement and provided to City may be subject to public disclosure as required by the California Public Records Act (California Government Code section 6250 *et seq.*). Exceptions to public disclosure may be those documents or information that qualify as trade secrets, as that term is defined in the California Government Code section 6254.7, and of which Consultant informs City of such trade secret. The City will endeavor to maintain as confidential all information obtained by it that is designated as a trade secret. The City shall not, in any way, be liable or responsible for the disclosure of any trade secret including, without limitation, those records so marked if disclosure is deemed to be required by law or by order of the Court.

31. MAINTENANCE OF RECORDS. Consultant shall maintain for a minimum of three (3) years from the completion date of the Services under this Agreement, the following records:

- A. All accounts and records, including personnel, property and financial, adequate to identify and account for all costs pertaining to this Agreement and assume proper accounting for all funds;
- B. Records which establish that Consultant and all subcontractors who render Services under this Agreement are in full compliance with the requirements of this Agreement and all federal, state and local laws and regulations;
- C. Any additional records deemed necessary by City to assume verification of full compliance with this Agreement.
- D. The aforementioned records shall be made available to City or any authorized representative thereof upon request for audit.

32. BINDING EFFECT. This Agreement shall be binding upon the heirs, executors, administrators, successors and assigns of the parties hereto.

33. GOVERNING LAW. This Agreement shall be interpreted and construed according to the laws of the State of California. Any action commenced about this Agreement shall be filed in the appropriate branch of the Los Angeles County Municipal or Superior Court.

34. SECTION HEADINGS. The Section headings used in this Agreement are for

reference purposes only and shall have no binding effect.

35. **AUTHORITY TO EXECUTE.** The persons executing this Agreement on behalf of the parties warrant that they are duly authorized to execute this Agreement.
36. **ATTORNEY'S FEES.** In the event that legal action is necessary to enforce the provisions of this Agreement, or to declare the rights of the parties hereunder, the parties agree that the prevailing party in the legal action shall be entitled to recover attorney's fees and court costs from the opposing party.
37. **PREPARATION OF AGREEMENT.** Each party acknowledges that it has had an adequate opportunity to review each and every provision in this Agreement and to submit the same to counsel and other consultants for review and comment and that the parties jointly drafted this Agreement. No provision of this Agreement or any Assignment shall be construed more strictly against one party than the other party by reason that one or the other party proposed, drafted or modified such provision or any other existing or proposed provision.
38. **SEVERABILITY.** If any term or portion of this Agreement is held to be invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions of this Agreement shall continue in full force and effect.
39. **ENTIRE AGREEMENT.** This Agreement contains the entire understanding between City and Consultant. Any prior agreement, promises, negotiations or representations not expressly set forth herein are of no force or effect. Subsequent modifications to this Agreement shall be effective only if in writing and signed by both parties. This Agreement may be signed by the parties hereto in separate counterparts, including both counterparts that are executed on paper and counterparts that are in the form of electronic signatures. Electronic signatures include facsimile or email electronic signatures. Each executed counterpart shall be deemed an original. All counterparts, taken together, constitute the executed Agreement. If any term, condition or covenant of this Agreement is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions of this Agreement shall be valid and binding.

The parties hereby acknowledge and agree that electronic records and electronic signatures, as well as facsimile signatures, used in connection with the execution of this Agreement and electronic signatures, facsimile signatures or signatures transmitted by electronic mail in so-called pdf format shall be legal and binding and shall have the same full force and effect as if a paper original of this Agreement had been delivered and had been signed using a handwritten signature. City and Consultant (i) agree that an electronic signature, whether digital or encrypted, of a party to this Agreement is intended to authenticate this writing and to have the same force and effect as a manual signature, (ii) intend to be bound by the signatures (whether original, faxed or electronic) on any document sent or delivered by facsimile or, electronic mail, or other electronic means, (iii) are aware that the other party will rely on such signatures, and (iv) hereby waive any

defenses to the enforcement of the terms of this Agreement based on the foregoing forms of signature. If this Agreement has been executed by electronic signature, all parties executing this document are expressly consenting under the United States Federal Electronic Signatures in Global and National Commerce Act of 2000 ("E-SIGN") and California Uniform Electronic Transactions Act ("UETA")(Cal. Civ. Code § 1633.1, et seq.), that a signature by fax, email or other electronic means shall constitute an Electronic Signature to an Electronic Record under both E-SIGN and UETA with respect to this specific transaction.

IN WITNESS WHEREOF, City and Consultant have executed this Agreement as of the date first hereinabove set forth.

CITY OF GARDENA

CONSULTANT – XYZ

Tasha Cerda, Mayor

Name

ATTEST:

Sign:

Title:

Mina Semenza, City Clerk

Name

APPROVED AS TO FORM:

Sign:

Title:

Carmen Vasquez, City Attorney

ATTACHMENT B –

City of Gardena MS4 FY 2020-2021 Annual Permit Report



City of Gardena

(WDID#4 19M1000113)

Individual and Watershed MS4 Permit Annual Report July 1, 2020 to June 30, 2021 Reporting Period

Coastal Los Angeles County Municipal Separate Storm
Sewer System (MS4) NPDES Permit No. CAS004001;
Regional Water Quality Control Board, Los Angeles Region
(LARWQCB) Order No. R4-2012-0175, as amended by
State Water Resources Control Board (SWRCB) Order WQ
2015-0075, and LARWQCB Order No. R4-2012-0175-A01

December 15, 2021



1561 E. Orangethorpe Avenue, Suite 240
Fullerton, California 92831
TEL (714) 526-7500 | FAX (714) 526-7004
www.cwecorp.com





City of Gardena

(WDID 4 19M1000113)

Individual and Watershed MS4 Permit Annual Reports July 1, 2020 to June 30, 2021 Reporting Period

**Coastal Los Angeles County Municipal Separate Storm Sewer System
(MS4) NPDES Permit No. CAS004001; Regional Water Quality Control
Board, Los Angeles Region (LARWQCB) Order No. R4-2012-0175,
as amended by State Water Resources Control Board (SWRCB)
Order WQ 2015-0075 and LARWQCB Order No. R4-2012-0175-A01**

Prepared for:

City of Gardena
1700 West 162nd Street
Gardena, California 90247-3732
TEL (310) 217-9500

Prepared by:



1561 E. Orangethorpe Avenue, Suite 240
Fullerton, California, 92831
TEL (714) 526-7500 | FAX (714) 526-7004 | www.cwecorp.com

December 15, 2021

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Introduction and Transmittal Information

On November 8, 2012, the California Regional Water Quality Control Board, Los Angeles Region (LARWQCB) adopted Order No. R4-2012-0175, *Waste Discharge Requirements for Municipal Separate Storm Sewer System (MS4) Discharges within the Coastal Watersheds of Los Angeles County, Except Those Discharges Originating from the City of Long Beach MS4*. This fourth term MS4 National Pollutant Discharge Elimination System (NPDES) Permit became effective on December 28, 2012. Subsequently, on June 16, 2015, the State Water Resources Control Board (SWRCB) adopted Order WQ 2015-0075 directing the LARWQCB to revise some MS4 Permit requirements, which became immediately effective when the LARWQCB released the 2015 amended MS4 Permit on July 1, 2015. On September 8, 2016, the LARWQCB further amended the MS4 Permit with Ballona Creek and Los Angeles River Trash Total Maximum Daily Loads (TMDL) Basin Plan Amendment implementation and compliance criteria revisions.

As herein reported, during the July 1, 2020, to June 30, 2021, MS4 NPDES Permit reporting period, the City of Gardena completed its third full round of water and sediment quality monitoring, conducted over one hundred seventy Industrial/Commercial (I/C) Facility inspections, updated its Geographical Information System (GIS) based I/C Facility tracking database to over 1500 records, and made sixty-five Industrial General Permit (IGP) non-filer referrals to the LARWQCB. On January 25, 2021, the City submitted its inaugural Safe Clean Water Program (SCWP), Municipal Program Transfer Agreement (MPTA), Fiscal Year 2020-2021 Annual (Budget) Plan and received its disbursement share of \$811,389.80 the following week. The City of Gardena submits the following 2020-21 Annual Report as a demonstration of its efforts to effectively implement the amended MS4 Permit.

**Los Angeles County Municipal Storm Water Permit
(Order No. R4-2012-0175 as amended by Order WQ 2015-0075)
NPDES No. CAS004001**

**Annual Report
Individual Form
Reporting Year 2020-2021**

This form includes items to be reported individually by each Permittee.

Permittee Name	City of Gardena
Permittee Program Contact	Allan Rigg, P.E.
Title	Director of Public Works
Address	1717 West 162 nd Street
City	Gardena
Zip Code	90247
Phone	(310) 217-9571
Email	Arigg@cityofgardena.org

1 Legal Authority and Certification

Complete the items on this page.

1.1 Answer the following questions on Legal Authority [VI.A.2.b]:

	Yes	No
Is there a current statement certified by the Permittee's chief legal counsel that the Permittee has the legal authority within its jurisdiction to implement and enforce each of the requirements contained in 40 CFR § 122.26(d)(2)(i)(A-F) and the Permit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has the above statement been developed or updated within the reporting year? If yes, attach the updated legal authority statement to this report.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

1.2 Complete the required certification below [Attachment D – V.B.5]:

**FY 2020/21 ANNUAL REPORT FOR
ORDER NO. R4-2012-0175
NPDES PERMIT NO. CAS004001
GARDENA**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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."

Signature of either a principal executive officer, ranking elected official, or by a duly authorized representative of a principal executive officer or ranking elected official. A person is a duly authorized representative only if:

- a. The authorization is made in writing by a principal executive officer or ranking elected official.
- b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
- c. The written authorization is submitted to the Regional Board.

If an authorization of a duly authorized representative is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization will be submitted to the Regional Board prior to or together with any reports, information, or applications, to be signed by an authorized representative.

Signature

Title

Date

[Handwritten Signature]
Director of Public Works
10/17/21

2 Program Expenditures

Complete the following items in this section.

- 2.1 Source(s) of funds used in the past year, and proposed for the coming year, to meet necessary expenditures on the Permittee's stormwater management program [VI.A.3.b]:

On February 18, 2021, the City of Gardena received its first, Fiscal 2020-2021, Safe Clean Water Program Municipal Program Transfer Agreement (SCWP MPTA) support, for \$811,389.80; some of which may be applied against earlier City General Fund expenditures since November 2018. Some elements of the stormwater management program is still being supported by the City of Gardena General Fund. Additionally, Plan Checks, Building Inspections, and Industrial/Commercial (I/C) Facility Inspections may be subsequently invoiced as inspection fees imposed on the project developer/owner or I/C facility.

- 2.2 Complete the table on program expenditures below [Attachment D – VII.A.5]:

Table 2a: Program Expenditures			
Category		Expenditures for Reporting Year	Program Budget for Next Reporting Year
(1) Program Management	General Program Management	\$40,000	\$40,000
(2) Minimum Control Measures (MCMs)	Public Information and Participation Program (PIPP)	\$15,000	\$15,000
	Industrial / Commercial (I/C) Facilities Inspection Program	\$25,000	\$73,000
	Planning and Land Development Implementation	\$15,000	\$15,000
	Development Construction Program	\$20,000	\$20,000
	Public Agency Activities	\$25,000	\$25,000
	Street Sweeping/Vacuuming	\$250,000	\$250,000
	Illicit Connections and Illicit Discharges Program	\$5,000	\$5,000
(3) Projects	Distributed Projects and Green Streets	\$5,000	\$250,000
	Regional Projects	\$0	\$5,000
	Restoration Projects	\$5,000	\$50,000
(4) Monitoring		\$159,000	\$96,000
(5) SWRCB/LARWQCB MS4 NPDES Permit Fees		\$23,969	\$26,498
(6) Other ¹		\$30,000	\$25,000
6/8/21 City Council Authorization to purchase Jet/Vactor Truck		\$0	\$510,766
TOTAL		\$617,969	\$1,406,264

- 2.3 Please add any additional comments on stormwater expenditures below:

At this time, the City of Gardena has no additional comments regarding Municipal Separate Storm Sewer System (MS4) Permit implementation related expenditures.

¹ Categories may be added to the table as necessary

3 Discharge Prohibitions and Receiving Water Limitations

Complete the following items in this section.

- 3.1 Did you develop and implement procedures to ensure that a discharger, if not a named Permittee in this Order, fulfilled the requirements of Part III.A.4.a.i-vi? If so, provide a link to where the procedures may be found or attach to the Annual Report [III.A.4.a]:

The City of Gardena discourages unnamed dischargers from draining to the MS4 primarily through public education regarding water and environmental pollution, as found at <http://www.cityofgardena.org/stormwater-management-program/>, and secondarily through enforcement of the Gardena Municipal Code, primarily the contents of Title 8, Chapter 70, found at <https://www.codepublishing.com/CA/Gardena/>.

- 3.2 Did you develop and implement procedures that minimize the discharge of landscape irrigation water into the MS4? If so, provide a link to where the procedures may be found or attach to the Annual Report [III.A.4.b]:

In support of Governor Newsom's Executive Order N-10-21, the City of Gardena directed Golden State Water Company to verify their contact information on the state Save Water registry at <https://savewater.ca.gov/>. This will facilitate the anonymous reporting of water waste back to the City Water Purveyor and staff. Normal City operating procedures for minimizing landscape overirrigation and overspray relies on its Code Enforcement Officers and the online Accela Customer Relationship Management (CRM) "Gardena Direct" application at http://iframe.publicstuff.com/#?client_id=1000006, which facilitates the reporting of illicit discharges and connections, among other issues. Landscape overirrigation and treatment is also explicitly addressed on the City website at <http://www.cityofgardena.org/wp-content/uploads/2016/08/GardenaLandscape.pdf> and at <https://cityofgardena.org/wp-content/uploads/2016/08/21-05-25-Stormwater-Friendly-Landscaping.pdf>.

- 3.3 Where Receiving Water Limitations were exceeded, describe efforts that were taken to determine whether discharges from the MS4 caused or contributed to the exceedances and all efforts that were taken to control the discharge of pollutants from the MS4 to those receiving waters in response to the exceedances (e.g. BMPs that were implemented) [Attachment E – XVIII.A.5.e]:

While regulated and unregulated pollutant sources may potentially contribute to the exceedance of LARWQCB Water Quality Control (aka Basin) Plan Receiving Water Limitations, such as zero for trash or a daily maximum of 235 MPN/100 ml for Fecal Indicator Bacteria (Escherichia coli or E. coli), the City of Gardena MS4 NPDES Permit implementation program has taken actions to support the attainment of Water Quality Objectives. During the current reporting period, over one hundred seventy Industrial/Commercial Facility inspections were conducted, resulting in the enrollment of fifty non-filers into the Industrial General Permit (IGP) program and the referral of sixty-five IGP non-filers to the LARWQCB. The City previously installed approximately two hundred Trash Full Capture Device (FCD), such as Linear Connector Pipe Screens (LCPS), along with a lesser number of Automatic Retracting Screens (ARS), in advance of statewide policy requirements and is planning for the installation of approximately four hundred more over the next year using Safe Clean Water Program (SCWP) Municipal Program Transfer Agreement (MPTA) support. Another cost-effective Best Management Practices (BMPs) implementation activity, to the Maximum Extent Practicable (MEP) standard, is weekly street vacuuming (cleaning or sweeping) throughout the City, with twice weekly vacuuming of arterials.

4 Non-Stormwater Outfall Screening and Monitoring

Complete the following items in this section.

- 4.1 Complete the following tables regarding your Non-Stormwater Outfall Based Screening and Monitoring Program [Attachment E – XVIII.A.3.a-g]. (These tables correspond to Tables 4a and 4b in the Watershed Form.)

Table 4a: Summary of Non-Stormwater Based Screening and Monitoring								
Receiving Water	No. of Outfalls	Total No. of Outfalls Screened Since Dec 28, 2012	No. of Screening Events During Reporting Year	No. of Screening Events Since Dec 28, 2012	Outfalls with Significant Non-Stormwater Discharges ²			
					Total Confirmed	Total Abated	Total Attributed to Allowable Sources ³	Total No. Being Monitored
<i>Dominguez Channel</i>	150	165	0	3	1	0	1	0
Total	150	165	0	3	1	0	1	0

Table 4b: Summary of Non-Stormwater Discharges Abated During Reporting Year	
Method	Total No.
Low Flow Diversion	<i>None Required</i>
IC/ID Eliminated	<i>None Required</i>
Permitted	<i>None Required</i>
Retention	<i>None Required</i>
Discharge No Longer Observed	<i>None Required</i>
Other (describe in Section 4.4)	<i>None Required</i>

- 4.2 How many of the conditionally exempt non-stormwater discharges in Part III.A.2.b of the Permit did you determine to be sources of pollutants that caused or contributed to an exceedance of receiving water limitations or WQBELs? If you made that determination, which type(s) of non-stormwater discharges in Part III.A.2.b were sources of pollutants? [III.A.4.d]

With the exception of E. coli, which are ubiquitous in the environment, conditionally exempt non-stormwater discharges from the City of Gardena do not appear to be a significant source of pollutants that cause or contribute to the exceedance of Receiving Water or Water Quality Based Effluent Limitations.

- 4.3 State when the non-stormwater outfall-based screening and monitoring program will be (or was) re-assessed. If applicable, describe any changes to program (the program must be re-assessed once during the permit term) [Attachment E – IX.B.2].

Since prior non-stormwater outfall-based screening records could not be recovered, the City reassessed its non-stormwater outfall inventory during April and May of 2019, then performed two screenings during June of 2019, to develop an outfall source control prioritization schedule. No outfalls repeatedly conveyed significant (>5 GPM) non-stormwater discharges, precluding the need to prioritize and monitor non-stormwater outfalls.

² "Significant Non-Storm Water Discharges" as identified by the Permittee per Part IX.C.1 of the MRP

³ "Allowable Sources" include NPDES permitted discharges, discharges subject to a Record of Decisions approved by USEPA pursuant to section 121 of CERCLA, conditionally exempt essential non-storm water discharges, and natural flows as defined in Part III.A.d of the permit.

- 4.4 Additional Information. If desired, provide additional information regarding Non-Stormwater Outfall Screening and Monitoring:

The City of Gardena has occasionally noted significant Non-Stormwater Discharges, into the Dominguez Channel, from the north and west. Although they may pass a short distance (several hundred feet) through the City of Gardena, these outfalls primarily service catchments in Dominguez Channel Enhanced Watershed Management Program (EWMP) communities, other than the City of Gardena. In speaking with EWMP group representatives, Gardena was advised that these discharges had been screened in 2015, prioritized for source control efforts and reported upon in a July 12, 2016, Draft Memorandum, and a source control exercise completed in 2017. This costly and technically difficult exercise primarily found the irregular and difficult to anticipate high volume flows were associated with other, non-MS4, National Pollutant Discharge Elimination System (NPDES) Permittees, including potable water production and industrial facilities.

5 Minimum Control Measures

Complete the following items in this section.

5.1 Public Information and Participation Program [VI.D.5]

Complete the following item regarding the Public Information and Participation Program.

- 5.1a) Summarize stormwater pollution prevention public service announcements and advertising campaigns. What pollutants were targeted? What audiences were targeted? Note whether activities were performed by the jurisdiction or as part of a watershed, regional, or county-wide group.

While the City continued to host stormwater pollution prevention public service information on its website at <https://www.cityofgardena.org/stormwater-management-program/> the CoViD 19 pandemic-induced social distancing measures precluded other productive outreach efforts. While pollution source prevention Best Management Practices (BMPs) and applicable corrective measures were recommended during I/C facility inspections, the program emphasis was on IGP non-filer enrollment. Following a return to normal societal interactions, oil filter return and other source control events will return to being promoted electronically on the City's web site at <https://www.cityofgardena.org/events-calendar/>.

- 5.1b) Which of the following public education materials did you distribute? (check yes or no)

	Yes	No
Information on the proper handling (i.e., disposal, storage and/or use) of Vehicle waste fluids?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Household waste materials (i.e., trash and household hazardous waste, including personal care products and pharmaceuticals)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Construction waste materials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pesticides and fertilizers (including integrated pest management practices [IPM] to promote reduced use of pesticides)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Green waste (including lawn clippings and leaves)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Animal wastes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- 5.1c) Did you distribute activity specific stormwater pollution prevention public education materials at the following points of purchase? If yes, provide the number of points of purchase within each category (if available).

Category	Yes	No	Number of Points of Purchase
Automotive Part Stores	<input checked="" type="checkbox"/>	<input type="checkbox"/>	One
Home Improvement Centers, Lumber Yards, Hardware and Paint Stores	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Applicable
Landscaping, Gardening Centers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Applicable
Pet Shops, Feed Stores	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Applicable

- 5.1d) Did you maintain stormwater websites or provide links to stormwater websites via your website, which included educational material and opportunities for the public to participate in stormwater pollution prevention and clean-up activities listed in Part VI.D.4? Provide links to the stormwater websites that you maintained and/or the location on your website where you provide links to stormwater websites.

The City educates its business community and residents about stormwater and urban runoff pollution source controls (including sanitary sewer system overflows, car wash fundraiser best management practices (BMPs), landscaping, fertilizing, pesticide application, other gardening tips, household tips for pollution prevention, proper disposal of household hazardous waste) through an informational webpage, in both English and Spanish, at: <http://www.cityofgardena.org/stormwater-management-program/>.

- 5.1e) Did you provide materials to educate school children (K-12) on stormwater pollution?

Schools within the City of Gardena are part of the Los Angeles Unified School District (LAUSD) and educational materials, such as "Trash on the Street Ends Up at the Beach," are available for teacher use. While Public Information and Participation Program (PIPP) stormwater education materials continue to be developed, currently interested schools, teachers, and students are advised to visit the State Water Board Erase the Waste website at http://www.waterboards.ca.gov/water_issues/programs/outreach/erase_waste/ and the CA Environmental Education Interagency Network (CEEIN) at <https://www.coastal.ca.gov/publiced/ceein/>.

- 5.1 f) Additional Information. If desired, provide additional information regarding implementation of the Public Information and Participation Program:

During the reporting period, the City's priority for public education and outreach was tailored toward CoViD 19 social distancing, compliance with State "Stay at home" campaign, proper disposal of household hazardous waste, and water conservation messages. As previously stated, the City also utilizes the "Gardena Direct" application, located at http://iframe.publicstuff.com/#?client_id=1000006, which facilitates public participation in reporting littering, illicit discharges, and connections to the MS4.

Due to the pandemic and Safer at Home Orders from Los Angeles County, additional efforts in public participation events were postponed for the reporting year.

5.2 Industrial and Commercial Facilities Program [VI.D.6]

Complete the following items regarding the Industrial and Commercial Facilities Program.

- 5.2a) Watershed-Based Inventory:

	Yes	No
Did you maintain and update a watershed-based inventory or database containing the latitude / longitude coordinates of all industrial and commercial facilities within your jurisdiction that are critical sources ⁴ of stormwater pollution?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- 5.2b) Commercial Facilities:

Question	Response
Number of Critical Commercial Sources⁴: How many critical commercial sources are within your jurisdiction (as of the end of the reporting year)?	~510
Number of Facility Inspections Conducted during the Reporting Year: How many inspections of commercial facilities were conducted during the reporting year?	13
First Round of Mandatory Compliance Inspections⁵: Did you complete a first round of mandatory compliance inspections of all commercial facilities identified in Part VI.D.6.d of the permit by 12/28/2014 ⁶ ? (Yes/No)	No. Initial inspections reportedly occurred in 2015.
Second Round of Mandatory Compliance Inspections: Describe your progress on the second round of mandatory compliance inspections of all commercial facilities identified in Part VI.D.6.d of the permit. (To be completed by 12/28/2017.)	Including 2015 inspections, second round commercial inspections are believed to have been completed during the 2020-21 Fiscal Year.

⁴ Part VI.D.6.b.i of the LA County MS4 Permit summarizes "critical sources" to be tracked

⁵ Permittees are required to inspect all commercial facilities identified in Part VI.D.6.b of the permit twice during the 5-year permit term, provided that the first mandatory compliance inspection occurs no later than 2 years after the effective date of the permit. A minimum interval of 6 months between the first and the second mandatory compliance inspection is required.

⁶ Permit effective date = December 28, 2012

5.2c) Industrial Facilities:

Question	Response
Number of Critical Industrial Sources: How many critical industrial sources are within your jurisdiction (as of the end of the reporting year)?	~230
Number of Facility Inspections Conducted during the Reporting Year: How many inspections of industrial facilities were conducted during the reporting year?	145
First Round of Mandatory Compliance Inspections⁷: Did you complete a first round of mandatory compliance inspections of all industrial facilities identified in Part VI.D.6.d of the permit by 12/28/2014? (Yes/No)	No. Approximately 180 IGP and Non-Filer facilities were reportedly inspected in 2015.
Second Round of Mandatory Compliance Inspections: Describe your progress on the second round of mandatory compliance inspections of all industrial facilities that did not file a No Exposure Certification (To be completed by 12/28/2017.)	The second round of mandatory compliance inspections have been completed. Non-Filers who did not obtain permit coverage were referred to the LARWQCB.
No Exposure Verification Inspections⁸: Describe your progress on performing a second mandatory compliance inspection at a minimum of 25% of facilities identified to have a filed a No Exposure Certification.	The City has 130 NEC facilities within its jurisdiction, with 40 newly enrolled during the 2020-21 Fiscal Year. The City has performed 65 NEC Verification inspections.

5.2d) Enforcement Actions: Describe the number and nature of any enforcement actions taken related to the industrial and commercial facilities program.

Sixty-five formal enforcement actions were filed during the 2020-21 FY. These were primarily IGP Non-Filer Notices of Violation (NOVs) sent to business/ property owner and electronically copied (referred) to the LARWQCB Stormwater Compliance Unit.

5.2 e) Additional Information. If desired, provide additional information regarding implementation of the Industrial and Commercial Facilities Program.

During the 2020-21 Reporting Year, approximately 34 businesses, inspected in 2015 by the City's prior consultant, were re-inspected as IGP Non-Filers to determine IGP applicability and re-introduce/educate business owners/operators. Over 150 IGP Notice of Intent (NOI) facilities, identified in the State Stormwater Multiple Application and Report Tracking System (SMARTS) as located within the City of Gardena, were actually found in adjacent communities. These were identified to the LARWQCB Stormwater Compliance Unit, which corrected the SMARTS database; however, state SMARTS staff intentionally reinserted the incorrect facility location data at the request of those facility Permittees, stating that LARWQCB staff would need to initiate formal enforcement actions to recorrect the data erroneously accepted by the State Board staff.

⁷ Permittees are required to perform an initial mandatory compliance inspection at all industrial facilities identified in Part VI.D.6.b no later than 2 years after the effective date of the permit. After the initial inspection, all facilities that have not filed a No Exposure Certification with the State Water Board are subject to a second mandatory compliance inspection. A minimum interval of 6 months between the first and second mandatory compliance inspection is required.

⁸ Approximately 3 to 4 years after the effective of the permit, each Permittee shall evaluate its inventory of industrial facilities and perform a second mandatory compliance inspection at a minimum of 25% of the facilities identified to have filed a No Exposure Certification. The purpose of this inspection is to verify the continuity of the non exposure status.

5.3 Planning and Land Development Program [VI.D.7 and Attachment E-XVIII]

Complete the following items regarding the Planning and Land Development Program.

5.3a) New Development Projects: Complete the table below for projects completed during the reporting year.

Table 5a: Summary of New Development Projects Subject to Implementation of Post-Construction Controls				
Receiving Water and/or WMP/EWMP	Number of Projects Completed Using On-Site Retention⁹	Number of Projects Completed Using Alternative Compliance Measures¹⁰	Total Drainage Area of Projects [acres]	Total Storm Water Quality Design Volume (SWQDv) [acre-feet]¹¹
<i>City of Gardena</i>	<i>Not Applicable</i>	<i>Not Applicable</i>	<i>Not Applicable</i>	<i>Not Applicable</i>

5.3b) Redevelopment Projects. Complete the table below for projects completed during the reporting year.

Table 5b: Summary of Redevelopment Projects Subject to Implementation of Post-Construction Controls				
Receiving Water and/or WMP/EWMP	Number of Projects Completed Using On-Site Retention	Number of Projects Completed Using Alternative Compliance Measures	Total Drainage Area of Projects [acres]	Total Storm Water Quality Design Volume (SWQDv) [acre-feet]
<i>Dominguez Channel</i>	<i>1523 W 134th Street (NOT 12/29/2020)</i>	<i>Proprietary biofiltration</i>	<i>3.1</i>	<i>0.2937</i>
<i>Dominguez Channel</i>	<i>14321 Van Ness Avenue (NOT 09/29/2020)</i>	<i>3 Filterra Tree Well Units</i>	<i>1.99</i>	<i>0.0921</i>
<i>Dominguez Channel</i>	<i>14215 S Normandie Ave (NOT 11/16/2020)</i>	<i>3 Bioretention Basins</i>	<i>1.14</i>	<i>0.0522</i>
<i>Dominguez Channel</i>	<i>16210 Crenshaw Blvd (NOT 6/16/20)</i>	<i>Rainwater harvesting</i>	<i>1.22</i>	<i>0.096</i>
<i>Dominguez Channel</i>	<i>16958 S Western Ave (NOT 12/03/19)</i>	<i>Four Filterra Treewells</i>	<i>2.31</i>	<i>0.181</i>
<i>Dominguez Channel</i>	<i>16908 S Normandie Ave (NOT 7/29/19)</i>	<i>Cultec Infiltration</i>	<i>1.53</i>	<i>0.120</i>
<i>Dominguez Channel</i>	<i>15400 S Western Ave (NOT 2/19/19)</i>	<i>LARWQCB Enforcement Order</i>	<i>1.4</i>	<i>0.094</i>
<i>Dominguez Channel</i>	<i>1399 Artesia Boulevard (NOT 1/16/19)</i>	<i>Biofiltration (West of Attendant Station)</i>	<i>1.5</i>	<i>0.099</i>
<i>Dominguez Channel</i>	<i>16908 Normandie Ave (NOT 9/26/18)</i>	<i>Infiltration System (See SMARTS Plans)</i>	<i>1.53</i>	<i>0.120</i>
<i>Dominguez Channel</i>	<i>14504 S Normandie Ave (NOT 9/24/18)</i>	<i>Two Filterra Treewells (mid project) & two bioswales</i>	<i>4.69</i>	<i>0.367</i>
<i>Dominguez Channel</i>	<i>12901 Western Avenue (NOT 6/18/18)</i>	<i>Modular Wetland System Biofiltration N of driveway</i>	<i>1.84</i>	<i>0.192</i>
<i>Dominguez Channel</i>	<i>15350 Van Ness Avenue (NOT 11/6/17)</i>	<i>Modular Wetland System Biofiltration Southwest Cor</i>	<i>1.72</i>	<i>0.135</i>
<i>Dominguez Channel</i>	<i>15501 Normandie Ave (Waiver Return 9/26/17)</i>	<i>None Identified</i>	<i>1.5</i>	<i>0.099</i>

⁹ "Number of Projects Completed" should only include projects that are completed and signed off by the Permittee during the reporting year. In progress projects that have been issued a permit, but are not completed should not be included.¹⁰ "Alternative Compliance Measures" refer to the mitigation options listed in Part VI.D.7 of the permit. These options include: on-site biofiltration, offsite infiltration, groundwater replenishment projects, offsite retrofits of existing developments, and areas covered by a regional storm water mitigation program.¹¹ "Total Storm Water Quality Design Volume (SWQDv)" should also include the SWQDv which would have been achieved on-site for projects completed using alternative compliance measures.

Table 5b: Summary of Redevelopment Projects Subject to Implementation of Post-Construction Controls				
Receiving Water and/or WMP/EWMP	Number of Projects Completed Using On-Site Retention	Number of Projects Completed Using Alternative Compliance Measures	Total Drainage Area of Projects [acres]	Total Storm Water Quality Design Volume (SWQDv) [acre-feet]
<i>Dominguez Channel</i>	<i>15541 S Western Ave (NOT 8/1/17)</i>	<i>Modular Wetland System Biofiltration</i>	<i>1.97</i>	<i>0.154</i>
Receiving Water and/or WMP/EWMP	Number of Projects Completed Using On-Site Retention	Number of Projects Completed Using Alternative Compliance Measures	Total Drainage Area of Projects [acres]	Total Storm Water Quality Design Volume (SWQDv) [acre-feet]
<i>Dominguez Channel</i>	<i>1600 Artesia Boulevard (NOT 1/18/17)</i>	<i>None Identified</i>	<i>5.3</i>	<i>0.415</i>
<i>Dominguez Channel</i>	<i>1701 W Artesia Blvd (NOT 10/15/15)</i>	<i>None Identified</i>	<i>1.1</i>	<i>0.086</i>
<i>Dominguez Channel</i>	<i>14020 S Western Ave (NOT 10/18/07)</i>	<i>None Identified</i>	<i>1.0</i>	<i>0.094</i>
<i>Dominguez Channel</i>	<i>13950 Vermont Avenue (NOT 5/24/06)</i>	<i>None Identified</i>	<i>11</i>	<i>0.862</i>
<i>Dominguez Channel</i>	<i>1702 El Segundo Blvd (NOT 3/10/06)</i>	<i>None Identified</i>	<i>4</i>	<i>0.313</i>

- 5.3c) Planning and Land Development Efforts beyond Permit Requirements. If applicable, describe Planning and Land Development activities that went above and beyond the permit requirements (e.g. stricter LID ordinance, small-site LID).

The City of Gardena emphasizes the utilization of Planning and Land Development procedures in compliance with the amended MS4 Permit requirements.

5.3d) Summary of New and Redevelopment Projects using Alternative Compliance Measures: Complete the table below for projects completed during the reporting year.

Table 5c: Summary of Alternative Compliance Measures for Development/Redevelopment Projects (where onsite retention of the SWQDv is infeasible)					
Category¹²	Number of Projects Completed Utilizing Alternative Compliance Method	Area Addressed by Projects [acres]	Total Design Retention Volume of Projects¹³ [acre-feet]	Total Design Biofiltration Volume of Projects¹⁴ [acre-feet]	Total SWQDv Which Would Have Been Achieved by Retaining SWQDv on-site [acre-feet]
Onsite Biofiltration	1523 W 134th Street (NOT 12/29/2020)	3.1	0	0.38	0.2937
Offsite Infiltration	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Ground Water Replenishment Projects	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Offsite Project Retrofit Existing Development	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Regional Storm Water Mitigation Program¹⁵	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
TOTAL	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

5.3e) Alternative Compliance Measures – Regional Storm Water Mitigation Program [VI.D.7.c.vi]: If applicable, complete the table below.

Table 5d: Alternative Compliance Measures – Regional Storm Water Mitigation Program				
Mitigation Program	Receiving Water and/or WMP/EWMP	Date Program Approved by Regional Water Board	Area Addressed by Mitigation Program [acres]	Cumulative Number of New and Redevelopment Projects Addressed by Project since Program Approval
Not Applicable	Dominguez Channel	Not Applicable	Not Applicable	Not Applicable

¹² Alternative Compliance Measures refer only to the alternative measures used to comply with Planning and Land Development Program requirements as described in Part VI.D.7.c.iii.(1)-(7)

¹³ Design Retention Volume should correspond to the sum of the mitigation volume (Mv) and the volume of stormwater runoff reliably retained on-site (Rv) as noted in Equation 2 of Part VI.D.7.c.iii.(2).(c) and Part VI.D.7.c.iii.(3).(c) of the permit.

¹⁴ Design Biofiltration Volume should correspond to the biofiltration volume (Bv) noted in Equation 1 of Part VI.D.7.c.iii.(1).(a) of the permit.

¹⁵ "Regional Storm Water Mitigation Program" is only applicable where the Permittee (or Permittee Group) has received approval of such a program from the Regional Water Board. If a Permittee intends to use regional projects in an approved WMP or EWMP as the basis of a Regional Storm Water Mitigation Program, the Permittee must still receive approval of the program from the Regional Water Board.

- 5.3f) Alternative Compliance Measures – Pending Offsite Projects¹⁶ [VI.D.7.c.iii.(5).(f)]: If applicable, complete the table below.

Table 5e: Alternative Compliance Measures – Offsite Projects					
Pending Offsite Project	Location	General Design Concept	Volume of Water Expected to be Retained [acre-feet]	Total Estimated Budget	Total Project Funds Raised to Date
<i>Not Applicable</i>	<i>Not Applicable</i>	<i>Not Applicable</i>	<i>Not Applicable</i>	<i>Not Applicable</i>	<i>Not Applicable</i>

- 5.3g) Control Measures for Projects Greater than 50 Acres [Attachment E – XVIII.A.6.e]: If applicable, provide a detailed description of control measures to be applied to new development or redevelopment projects disturbing more than 50 acres.

No new or redevelopment projects disturbing more than 50 acres are currently being implemented in the City of Gardena.

- 5.3h) Enforcement Actions: Describe the number and nature of any enforcement actions taken related to the planning and land development program.

No Planning and Land Development, MS4 Permit related, enforcement actions were reported to have occurred during the reporting year within the City of Gardena.

- 5.3 i) Additional Information. If desired, provide additional information regarding implementation of the Planning and Land Development Program.

No additional information provided at this time.

¹⁶ "Offsite projects" refers only to offsite projects being used as an alternative compliance measure for development/redevelopment project applicants that have demonstrated technical infeasibility for on-site retention of the SWQDv. This does not include on-site biofiltration, however it does include off-site biofiltration projects.

5.4 Development Construction Program [VI.D.8]**Complete the following items regarding the Development Construction Program.**

5.4a) Answer the following questions regarding your Development Construction Program:

	Yes	No
For construction sites 1 acre or greater, did you use an electronic system to inventory grading permits, encroachment permits, demolition permits, building permits, or construction permits (and any other municipal authorization to move soil and/ or construct or destruct that involves land disturbance) that you issued?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
For construction sites 1 acre or greater, did you use procedures to review and approve an ESCP (or a SWPPP prepared in accordance with the requirements of the Construction General Permit) that contains appropriate site-specific construction site BMPs that meet the minimum requirements of a Permittee's erosion and sediment control ordinance?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
For construction sites 1 acre or greater, did you track the date that you approved the Erosion and Sediment Control Plans (ESCP) or CGP SWPPPs for new sites permitted and sites completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
For construction sites less than 1 acre, did you require the implementation of an effective combination of erosion and sediment control BMPs from Table 12 of the LA County MS4 Permit to prevent erosion and sediment loss, and the discharge of construction wastes through the use of the Permittee's erosion and sediment control ordinance or building permit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Did you ensure that all staff whose primary job duties are related to implementing the construction stormwater program is adequately trained? [VI.D.8.I]	<input checked="" type="checkbox"/>	<input type="checkbox"/>

5.4 b) Permits and Inspections: Complete the table below. Only report numbers for sites 1 acre or greater in area.

Table 5f. Construction Site Inspections for Construction Sites ≥ 1 Acre	
How many building/grading permits were issued to construction sites during the reporting year?	0
How many Erosion and Sediment Control Plans (ESCPs) did you approve during the reporting year?	0
How many inspections of construction sites were conducted during the reporting year?	0
How many final landscaping/site stabilization inspections (to ensure that all graded areas have reached final stabilization and that all trash, debris, and construction materials, and temporary erosion and sediment BMPs are removed) were conducted during the reporting year?	0

(a) Enforcement Actions: Describe the number and nature of any enforcement actions taken related to the development construction program.

The Development Construction Program was generally able to achieve compliance through the issuance of Correction Notices, rather than issuing formal enforcement actions. Typically, about 20% of the inspections result in verbal or written corrections; however, most are related to construction tasks, rather than discharges.

(b) Additional Information. If desired, provide additional information regarding implementation of the Development Construction Program.

Annual training of public works, building and safety, and code enforcement personnel were contracted for staff whose primary job duties are related to implementing the construction stormwater program; however training was delayed due to CoViD 19 related social distancing.

5.5 Public Agency Activities Program [VI.D.9]

Complete the following items regarding the Public Agency Activities Program.

5.5a) Answer the following questions regarding the Public Agency Activities Program:

	Yes	No
Did you maintain an updated inventory of all Permittee-owned or operated (i.e., public) facilities within your jurisdiction that are potential sources of stormwater pollution?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Did you develop an inventory of retrofitting opportunities that meets the requirements of Part VI.D.9.d. of the LA MS4 Permit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were all Permittee-owned parking lots exposed to stormwater cleaned at least once per month?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Did you ensure effective source control BMPs for the activities listed in Table 18 of the Permit were implemented at Permittee-owned or operated facilities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Did you ensure employees in targeted positions (whose interactions, jobs, and activities affect stormwater quality) were trained on the requirements of the overall stormwater management program, and contractors performing privatized/contracted municipal services were appropriately trained	<input checked="" type="checkbox"/>	<input type="checkbox"/>

5.5 b) Street Sweeping: Complete the table below.

Table 5g. Summary of Street Sweeping Activities				
	Total Miles of Street ¹⁷	Total Curb Miles of Street	Frequency of Street Sweeping	Additional Notes
Priority A (greater than once per month)	113	226	≥Weekly	Major arterial roads are swept twice weekly, while secondary and residential streets are swept weekly. Parking restrictions are enforced during sweeping.
Priority B (once per month)	None	None	None	None
Priority C (as needed, once per year minimum)	None	None	None	None

5.6 Illicit Connections and Illicit Discharges Elimination Program [VI.D.10]

Complete the following items regarding the Illicit Connections and Illicit Discharges Elimination Program.

5.6a) IC/ID Investigations: Complete the following table¹⁸

Table 5h. IC/ID Investigations				
	Number of Reported Illicit Discharges or Connections	Number of Investigations	Number Eliminated	Number Permitted or Documented
Illicit Discharges	0	0	0	0
Illicit Connections	0	0	0	0

5.6b) Enforcement Actions: Describe the number and nature of any enforcement actions taken related to the illicit connections and illicit discharges elimination program.

When found, or reported via "Gardena Direct", illicit discharges are terminated via a Notice to the owner of the facility ordering that the discharge be terminated. If not terminated the City's Code Enforcement Division is involved, issuance of a citation initiated, and legal action against the responsible party maybe undertaken.

¹⁷ Permittee may report the length of street swept in "total miles of street" and/or "total curb miles," depending on availability.¹⁸ Illicit discharges and connections detected through other inspection programs should be included.

5.6c) Answer the following questions regarding Public Hotline and Training [VI.D.10.d and VI.D.10.f]

	Yes	No
Did you maintain or provide access to a hotline to enable the public to report illicit discharges/connections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Did you continue to implement a training program regarding the identification of IC/IDs for all municipal field staff, who, as part of their normal job responsibilities (e.g., street sweeping, storm drain maintenance, collection system maintenance, road maintenance), may come into contact with or otherwise observe an illicit discharge or illicit connection to the MS4?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

5.6d) Additional Information. If desired, provide additional information regarding implementation of the Illicit Connections and Illicit Discharges Elimination Program.

The reporting of IC/ID is addressed through the City of Gardena (310) 217-9528 or (888) CLEANLA. The City of Gardena has also instituted "Gardena Direct," an Accela Customer Relationship Management (CRM) application available at http://iframe.publicstuff.com/#?client_id=1000006, which facilitates the reporting of illicit discharges, illicit connections, and other pollution source control issues.

6 Stormwater Control Measures Summary

Complete the following items in this section.

If the information on stormwater control measure implementation requested in the following section will be included in a Watershed Form submitted by the Permittee, the Permittee may reference the Watershed Form and skip those items. Aside from the calculation of *Effective Impervious Area* (Section 6.1) and the *Summary of Projects that Retain Runoff* (Section 6.2), items in this section cover projects that are not part of the Planning and Land Development Program.

The tables within this section outline minimum information for reporting. The Permittee may reformat the sections regarding projects completed in the reporting year to include additional project descriptions and information (e.g. pictures, maps, funding information, etc.).

If any of the requested information cannot be obtained, please note in Section 11.

- 6.1 Effective Impervious Area and 85th Percentile, 24-Hour Runoff Volume [Attachment E, XVIII.A.1] (if available): Summarize the estimated cumulative change in percent EIA since the effective date of the Permit (i.e. 12/28/2012) for the entire area covered by the WMP/EWMP and, if possible, the estimated change in the stormwater runoff volume during the 85th percentile, 24-hour storm event for the entire area covered by the WMP/EWMP.

We have preliminary estimated an EIA value of approximately 74%, however the City appreciates and will utilize the alternative cumulative change in EIA estimate that was offered to Permittees in the May 25, 2017, LARWQCB reporting guidance memorandum.

- 6.2 Summary of Projects that Retain Runoff (including New and Redevelopment Projects): Complete the summary tables below.

Table 6a: Summary of Projects that Retain Runoff Completed in the Reporting Year				
Receiving Water and/or WMP/EWMP Group	Number of New Development/Re-development Projects Completed in Reporting Year	Number of Other Projects Designed to Intercept Runoff Completed in Reporting Year	Area Addressed by Projects [acres]	Total BMP Retention Capacity of Projects [acre-feet]
<i>Dominguez Channel</i>	3	0	6.23	0.438
TOTAL	3	0	6.23	0.438

Table 6b: Cumulative Summary of Projects that Retain Runoff Completed since the Permit Effective Date					
Receiving Water and/or WMP/EWMP Group	Number of New Development/Re-development Projects Completed Since 12/28/2012	Number of Other Projects Designed to Intercept Runoff Completed Since 12/28/2012	Area Addressed by Projects [acres]	Total BMP Retention Capacity of Projects Completed Since 12/28/2012 [acre-feet]	Est. Total Runoff Volume Retained Onsite for the Reporting Year [acre-feet] ¹⁹
<i>Dominguez Channel (Above Vermont Ave.)</i>	7	9	28.59	0.868	0.33
TOTAL	7	9	28.59	0.868	0.33

¹⁹ Assuming 90% of 4.72" recorded at the ALERT Hollypark Rain gauge was captured in Project BMPs.

- 6.3 Projects Designed to Intercept Stormwater Runoff Completed during the Reporting Year (excluding New Development and Redevelopment Projects): Complete the table below for projects designed to intercept stormwater runoff completed in the reporting year. If needed, information unsuitable for the table or additional information on projects may be provided in the space below table.

Table 6c: Projects Designed to Intercept Runoff Completed in the Reporting Year						
Receiving Water and/or WMP/EWMP Group	Name of Project(s)	Type of Project	Completion Date	Length (if Green Street) [miles]	Drainage Area of Project [acres]	Total BMP Retention Capacity ²⁰ [acre-feet]
<i>Dominguez Channel</i>	<i>Not Applicable</i>	<i>Choose an Item.</i>	<i>Not Applicable</i>	<i>Not Applicable</i>	<i>Not Applicable</i>	<i>Not Applicable</i>

The City of Gardena is investigating use of the Willows Wetlands as a regional infiltration control to address water quality issues and to facilitate groundwater recharge efforts.

- 6.4 Riparian Buffer and Wetland Restoration Projects: Complete the table below for any riparian buffer or wetland restoration projects completed in the reporting year.

Table 6d: Riparian Buffer/Wetland Restoration Projects Completed			
Receiving Water and/or WMP/EWMP Group	Name of Project	Completion Date	Description of Project ²¹
<i>Dominguez Channel</i>	<i>Gardena Willows Wetland Preserve</i>	<i>Ongoing</i>	<i>Exotic/Invasive species control and removal, public education, and establishment of volunteer program</i>

- 6.5 Status of Multi-Year Efforts [Attachment E, Part XVIII.A.1.i]: Provide the status of multi-year efforts, including TMDL implementation (not including Trash TMDLs) that were not completed in the current year and will continue into the subsequent year(s). For multi-year efforts, report on progress towards future milestones related to multi-year projects. Include the status of the project, which includes the status with regard to standard project implementation steps. These steps include, but are not limited to, adopted or potential future changes to municipal ordinances to implement the project, site selection, environmental review and permitting, project design, acquisition of grant or loan funding and/or municipal approval of project funding, contractor selection, construction schedule, start-up, and effectiveness evaluation (once operational), where applicable.

If applicable, for green streets implementation, Permittees shall report on progress toward a structured approach identifying a sufficient number of green streets projects to meet compliance milestones (e.g., a green streets master plan).

Also, include the following information:

- Name
- Receiving Water
- Project Type
- Location / Latitude and Longitude
- Permittee(s) Involved
- Status
- Expected Completion Date

The City of Gardena is not formally affiliated with a WMP/EWMP. The City anticipates revisiting this decision following the July 23, 2021 adoption of the fifth term permit.

²⁰ If project not designed to retain stormwater, mark "N/A."

²¹ For riparian buffer projects include width, length and vegetation type; for wetland restoration projects include acres restored, enhanced or created

6.6 Effectiveness Assessment of Stormwater Control Measures [Attachment E – XVIII.A.2]: Provide the following:

- An assessment as to whether the quality of stormwater discharges as measured at designated outfalls is improving, staying the same or declining;
- An assessment as to whether wet-weather receiving water quality within the jurisdiction of the Permittee is improving, staying the same or declining, when normalized for variations in rainfall patterns.

The LARWQCB EO approved the City of Gardena Request to Modify the Board Directive to Commence Baseline Monitoring Pursuant to the Monitoring and Reporting Program as Set Forth in Attachment E (Los Angeles County Municipal Separate Storm Sewer System (MS4) Permit – NPDES Permit No. CAS 004001; Order No. R4-2012-075) on March 6, 2019, and the first water quality sample was collected on November 22, 2018. Stormwater outfall and receiving water quality data, collected during the past three years, do not yet allow for the development of an informative BMP/WCM effectiveness assessment.

6.7 Integrated Monitoring Compliance Report, Stormwater Control Measures [Attachment E – XVIII.A.5.d]: Provide a description of efforts that were taken to address stormwater discharges that exceeded one or more applicable water quality based effluent limitation, or caused or contributed to aquatic toxicity:

Through the voluntary early installation of Connector Pipe Screen (CPS) Full Capture Devices (FCDs) trash, organic matter, and sediment conveyance during storm events should be greatly reduced, however, absent maintenance and trash removal records, a determinations of trash volumes captured cannot be made.

The average copper content of automotive brake pads is rapidly declining as numerically assessed in a California Storm Water Quality Association (CASQA) technical report on the subject.

Water quality monitoring data collected prior to October 1, 2018 appears to include transcription errors and should be considered suspect until such time as the original analytical reports are made available.

6.8 Additional Information (optional): If available, the Permittee may include / attach the following items to their report:

- Hydrographs and Flow Data: Hydrographs or flow data of pre- and post-control activity for the 85th percentile, 24-hour rain event, if control measures were designed to reduce impervious cover or stormwater peak flow and flow duration.
- Reference Watershed Flow Duration Curves: For natural drainage systems, develop a reference watershed flow duration curve and compare it to a flow duration curve for the subwatershed under current conditions.
- GIS Project Files: If available, submit a GIS project file that maps all implementation of on-the-ground projects (e.g. riparian buffer/wetland restoration; distributed/green streets; regional projects; new development and redevelopment on-site; and new development and redevelopment off-site)

The City of Gardena does not yet consider the integrity and reliability of this data to be sufficient for regulatory reporting and review. We are continuing to assess how the information can be better collected, validated, assessed, and presented.

7 Non-Stormwater Control Measures Summary

Complete the following items in this section.

- 7.1 Provide a description of efforts that were taken to mitigate and/or eliminate all non-stormwater discharges that exceeded one or more applicable water quality based effluent limitations, non-stormwater action levels, or caused or contributed to Aquatic Toxicity [Attachment E – XVIII.A.5.c]:

The inventory/screening program implemented by the City of Gardena during April-June 2019 suggested that significant Dominguez Channel Non-Stormwater were the result of conditionally exempt MS4 NPDES Permitted discharges, originating outside of City drainage areas. No NSWd water quality monitoring data were developed during the reporting period, as no discharges met standard MS4 Permit criteria for prioritization.

- 7.2 Provide the status of multi-year efforts, including TMDL implementation, related to the implementation or effectiveness assessment of non-stormwater control measures, that were not completed in the current year and will continue into the subsequent year(s) [Attachment E – XVIII.A.3.h]:

On February 7, 2019, the City of Gardena City Council authorized an additional 500 MS4 Permit I/C facility inspections that resulted in a significant business and public outreach education effort to further reduce the potential for NSWds, illicit discharges, illicit connections, and the discharge of industrial runoff, that may currently be occurring.

- 7.3 Provide an assessment of the effectiveness of the Permittee control measures in effectively prohibiting non-stormwater discharges through the MS4 to the receiving water [Attachment E – XVIII.A.4.b]:

NSWD significant flows within the City of Gardena appeared to be primarily associated with conditionally exempt MS4 NPDES Permitted discharges. As discussed in Section 4.4, a single MS4 outfall, with a catchment outside of the City, was investigated for NSWd sources by the City and referred to Los Angeles County.

- 7.4 Provide an assessment as to whether the quality of non-stormwater discharges as measured at monitored outfalls is improving, staying the same or declining:

The City of Gardena undertook three NSWd surveys during the 2018-19 RY, where NSWd flows were generally insignificant and below generally recognized MS4 Permit prioritization criteria. There is insufficient data to support an assessment of whether NSWd water quality is improving, unchanged, or declining.

- 7.5 Provide an assessment as to whether receiving water quality within the jurisdiction of the Permittee is impaired, improving, staying the same or declining during dry-weather conditions. Each Permittee may compare water quality data from the reporting year to previous years with similar dry-weather flows, conduct trends analysis, draw from regional bioassessment studies, or use other means to develop and support its conclusions [Attachment E, Part XVIII.A.4.a]:

The LARWQCB EO approved of the City of Gardena Request to Modify Directive to Commence Baseline Monitoring Pursuant to the Monitoring and Reporting Program as Set Forth in Attachment E (Los Angeles County Municipal Separate Storm Sewer System (MS4) Permit – NPDES Permit No. CAS 004001; Order No. R4-2012-075) on March 6, 2019, and while the City of Gardena implemented its third year of dry-weather water quality monitoring, data does not yet support development of this assessment.

- 7.6 Describe sources of significant non-stormwater discharges determined to be a NPDES permitted discharge, a discharge subject to A Record of Decision approved by USEPA pursuant to section 121 of CERCLA, a conditional exempt essential non-stormwater discharge, or entirely comprised of natural flows. [Attachment E – IX.F.2]

NSWD significant flows within the City of Gardena appeared to result from conditionally exempt MS4 NPDES Permitted discharges. A single prioritized MS4 outfall was identified as having a drainage area exclusive of the City. No NSWd water quality monitoring data were developed during the reporting period.

8 TMDL Reporting

Complete the following items in this section.

8.1 Trash TMDL Compliance Report [VI.E.5.c.i]

For Permittees subject to Trash TMDLs, attach a Trash TMDL compliance report for each applicable Trash TMDL detailing compliance with applicable interim and/or final effluent limitations. Indicate if compliance is being achieved through (1) full capture systems; (2) partial capture devices and/or institutional controls; (3) combined compliance approaches; (4) minimum frequency of assessment and collection (MFAC); or (5) an alternative compliance option.

Although not subject to a trash TMDL, the City of Gardena has installed Connector Pipe Screen (CPS) Full Capture Device (FCD) and 87% effective Automatic Retracting Screen (ARS) devices in at least 184, of 230, City owned catch basins in partial and early implementation of the SWRCB Trash Policy. This was documented in the City of Gardena Statewide Trash Provisions Implementation Assessment Plan submitted to the LARWQCB on February 15, 2019. An additional 400 similar installations have been budgeted for the FY 2021-2022 period, using SCWP MPTA support. During the reporting period, the Los Angeles County Department of Public Works reported removing just over 4 tons of debris from 220 catch basins in the City.

8.2 TMDL Reporting [Attachment E, XIX]

Report on progress towards achieving interim or final milestones/WQBELs/RWLs based on applicable compliance schedules in Attachments L-R and any additional milestones and corresponding deadlines in an approved WMP/EWMP. If this information is reported in another document (e.g. Annual Report Watershed Form) or an attachment, clearly state and provide a reference to the pertinent document and section.

The only active TMDL currently applicable to the City of Gardena, as identified in Table K-4 of the amended Permit, is the Dominguez Channel and Greater Los Angeles and Long Beach Harbors Toxic Pollutants TMDL. As summarized in Part E, of Attachment N, to the Permit, this is probably the most complex TMDL developed by the LARWQCB, targeting potential toxicity resulting from six metals, DDTs, PCBs, and PAHs, with widely varying interim and final pollutant concentrations, within more than a dozen water bodies, for water column, sediment, and fish tissue matrices. Fortunately, most Gardena storm drains are concrete-lined and in the Freshwater portion of the Dominguez Channel, where receiving water quality can be effectively assessed immediately east of Vermont Avenue. Small portions of Gardena contribute runoff, to the much larger tributary area and discharge flows from the City and County of Los Angeles, through a vegetated channel under Artesia Boulevard, also located just east of Vermont Avenue, into the Dominguez Channel Estuary. Flows from Gardena would not typically be expected to significantly impact storm or non-storm water discharge water quality from this drain; however, this supposition could be revisited following a referral from the City of Los Angeles based on water quality monitoring data from the outfall location.

In response to the LARWQCB baseline monitoring letters of January 6, 2017 and September 9, 2018, the City of Gardena executed a November 28, 2018 Memorandum of Agreement (MOA), with the South Bay Cities Council of Governments (SBCCOG), to financially contribute to the existing Dominguez Channel Watershed Management Area (DCWMA) Dominguez Channel and Greater Los Angeles and Long Beach Harbors Toxic Pollutants TMDL Monitoring Study. Following payment, the MOA became effective on December 18, 2018, as was noted in the LARWQCB letter of March 3, 2019. This MOA resulted in the DC WMA sharing with Gardena sediment chemistry, grain size, toxicity and benthic infauna data for station B18-10397, located just above the Torrance Lateral, along with fish tissue bioaccumulation chemistry data from the same general location. The sediment and fish tissue data were included as part of the 2018 Bight Program Assessment Reports, which can be downloaded from <https://www.sccwrp.org/about/research-areas/regional-monitoring/southern-california-bight-regional-monitoring-program/bight-program-documents/bight-18/>.

The City of Gardena anticipates that true pollutant source controls, such as the changing formulation of automotive friction pads, diesel exhaust filters and afterburners, and increased pesticide regulation, will continue to result in progress towards achieving water quality objectives and supporting receiving water beneficial use objectives. The City contributes to these efforts by having implemented an aggressive street vacuuming program and an effective MS4 Permit I/C facility inspection and enforcement program.

9 Watershed Hydrology

Complete the following items in this section.

If the information on watershed hydrology requested in the following section is included in a Watershed Form or was previously included in a WMP or EWMP, you may simply reference those documents.

9.1 (If applicable) Watershed Summary Information, Organization, and Content: Provide the information below in the odd year Annual Report (e.g., Year 1, 3, 5)²², or any updates to the information below if previously provided. The requested information shall be provided for each watershed within the Permittee's jurisdiction [Attachment E – XVII]:

Provide the following information related to the Watershed Management Area:

- 1) Description of effective TMDLs, applicable WQBELs, receiving water limitations, implementation and reporting requirements, and compliance dates;
- 2) List of CWA Section 303(d) listings not addressed by TMDLs.
- 3) Results of regional bioassessment monitoring. (If applicable, a reference to the SMC will suffice here.)
- 4) Description of known hydromodification effects to receiving waters.
- 5) Description and location of natural drainage systems.
- 6) Description of groundwater recharge areas, including number and acres.
- 7) Maps and/or aerial photographs identifying ESAs, ASBS, natural drainage systems, and groundwater recharge areas.

1. Effective TMDLs, WQBELs, RWLs, implementation and reporting requirements, and compliance dates are identified in the amended 2012 Coastal Los Angeles County MS4 Permit and are further described in the appropriate section of the LARWQCB website. The City of Gardena is continuing to implement new BMPs, WCMs, and source controls to support the attainment of receiving water beneficial use objectives.

2. The State Water Resources Control Board (SWRCB) Draft 2018 California Integrated Report website (https://www.waterboards.ca.gov/water_issues/programs/water_quality_assessment/2018_integrated_report.html) recommends development of a TMDL for indicator bacteria in the (lined) Dominguez Channel.

3. Results of a 2015 bioassessment study conducted by the Southern California Coastal Water Research Project (SCCWRP) concluded that metals, pyrethroids, and toxicity were either rarely above threshold or weakly associated with biological condition (See Bioassessment of Streams in Southern California: A Report on the First Five Years of the Stormwater Monitoring Coalition's Regional Stream Survey, SCCRWP, Technical Report 844). The study validates results from SWAMP-generated ambient and wet weather data for Dominguez Channel that metals and toxics are not significant contributors to the channel's impairment.

4. The Dominguez Channel within the City of Gardena is a hardened flood control conveyance.

5. The City of Gardena Willows Wetland occupies approximately 13.6 acres of land in southeastern Gardena, northwest of the State Route 91 and Interstate 110 interchange corridor. This site is identified as a natural drainage area that might be modified to increase infiltration and provide additional runoff water treatment.

6. In April 2021, the Friends of the Gardena Willows Wetland Preserve submitted a Wildlife Conservation Board Riparian Habitat Conservation Planning Grant Application in amount of \$325,000 for Wetland Restoration.

7. The Dominguez Channel Watershed is highly urbanized with few, if any, large groundwater recharge areas.

8. There are no ESAs, ASBSs, or surficial groundwater recharge areas remaining within the City of Gardena. There is a short unlined drainage conveyance, serving mostly Los Angeles City and County jurisdictional areas, located to the east of Vermont Avenue, adjacent to Artesia Boulevard. An aerial photograph identifying the Gardena Willows Wetlands Preserve is attached below as Figure-1.

²² Year 1 = 2012-13 Annual Report; Year 2 = 13-14; Year 3 = 14-15; Year 4 = 15-16; Year 5 = 16-17;...



Figure-1 City of Gardena Willows Wetlands Preserve Location Aerial Photograph

Provide the following information related to the Subwatershed (HUC-12):

- 1) Description including HUC-12 number, name and a list of all tributaries named in the Basin Plan.
 - 2) Land Use map of the HUC-12 subwatershed.
 - 3) 85th percentile, 24-hour rainfall isohyetal map for the subwatershed.
 - 4) One-year, one-hour storm intensity isohyetal map for the subwatershed.
 - 5) MS4 map for the subwatershed, including major MS4 outfalls and all low flow diversions.
-
- 1) ***With the exception of a quarter square-mile area, in northwest Gardena, that drains to WBD No. or HUC-12 Subwatershed 180701060101 (Upper Dominguez Channel), the remainder of the City drains to WBD No. or HUC-12 Subwatershed 180701060102 (Lower Dominguez Channel). While the basin plan recognizes no named tributaries to the Dominguez Channel, the Torrance Lateral is a commonly recognized conveyance within the Dominguez Estuary and below all City of Gardena catchments.***

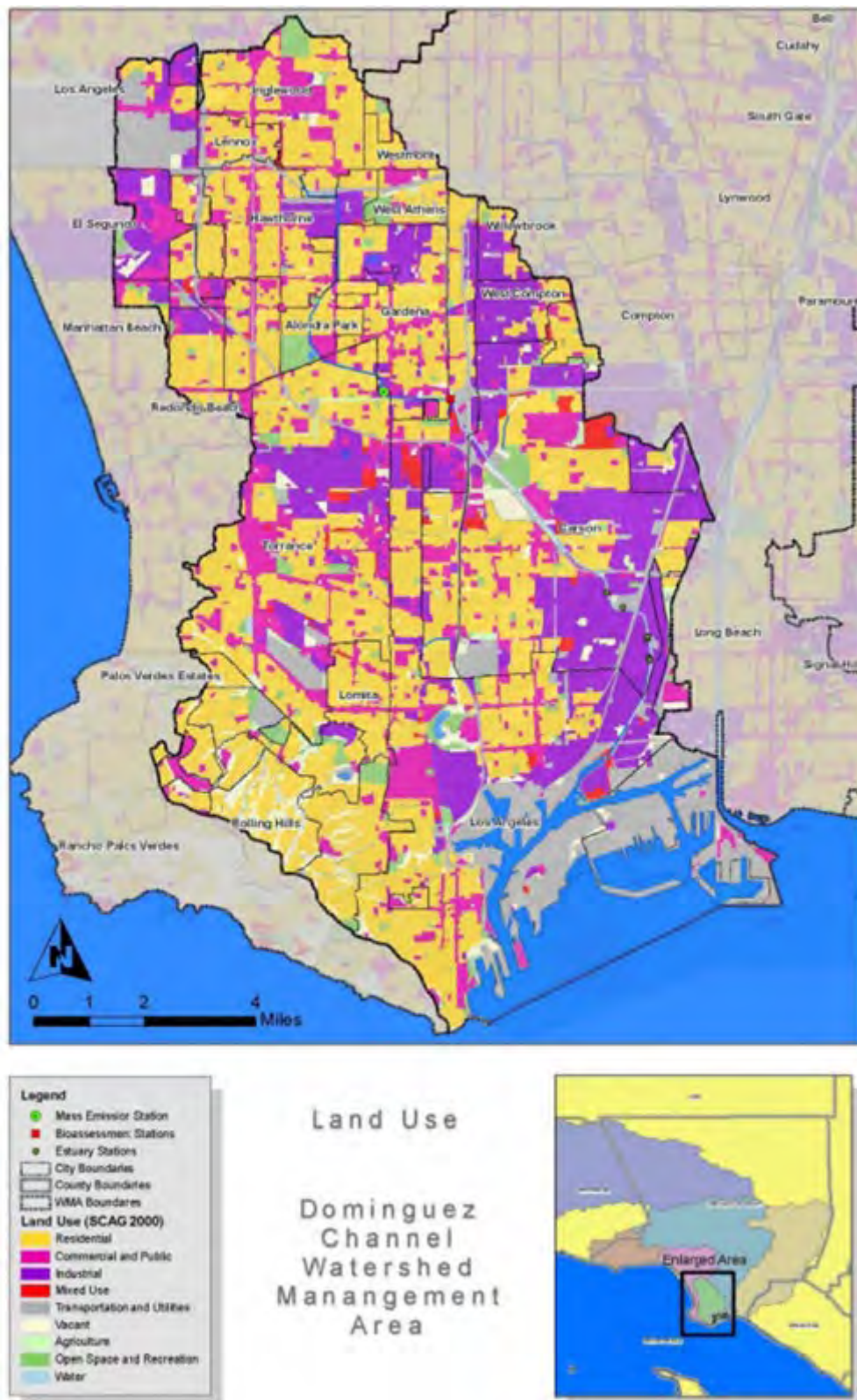


Figure-2 Dominguez Channel Watershed Land Use Map (HUC-12 180701060102)

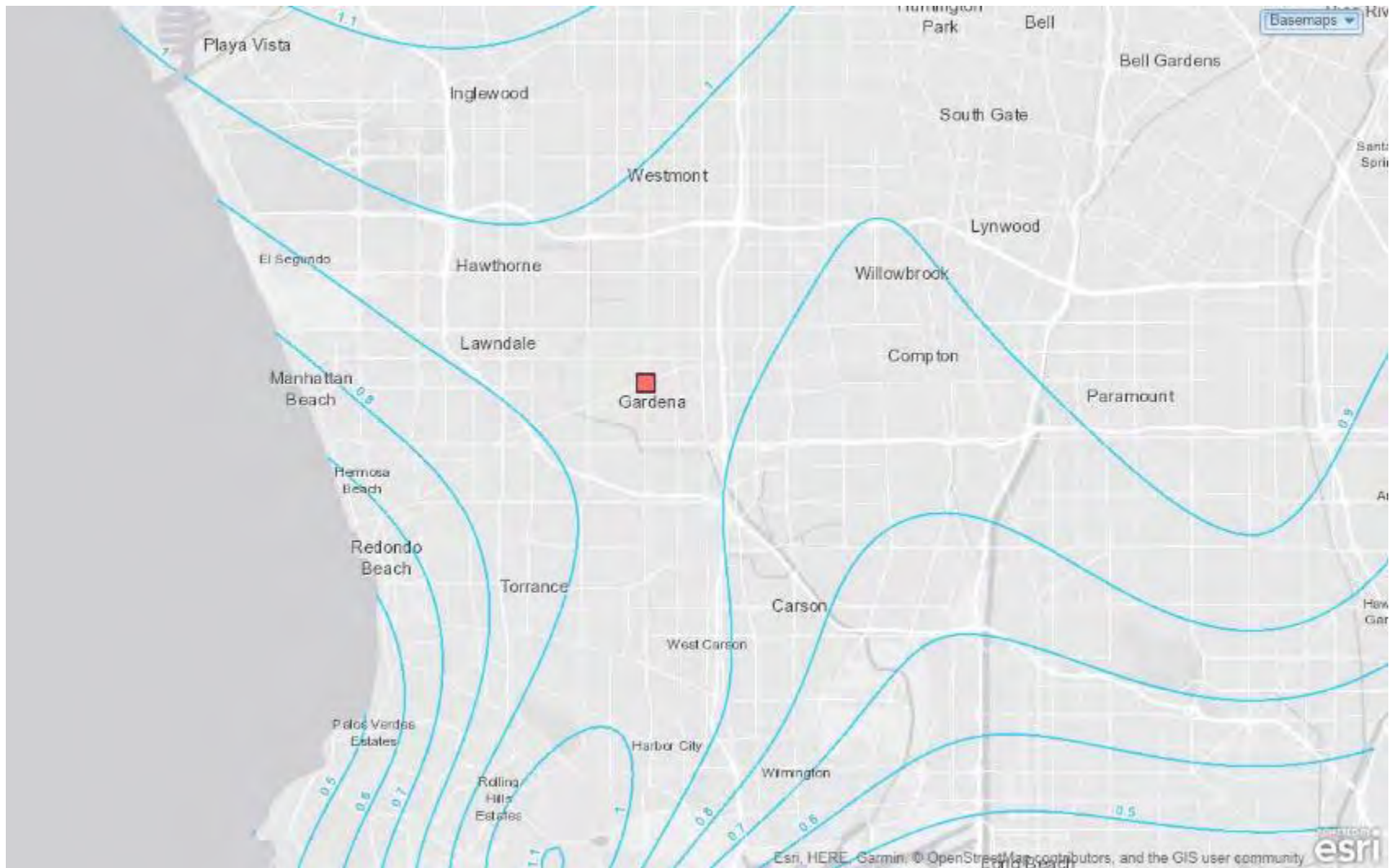


Figure-3 City of Gardena Vicinity, 85th Percentile, 24-hour Isohyetal Map (0.90" to 0.98", mean 0.94").

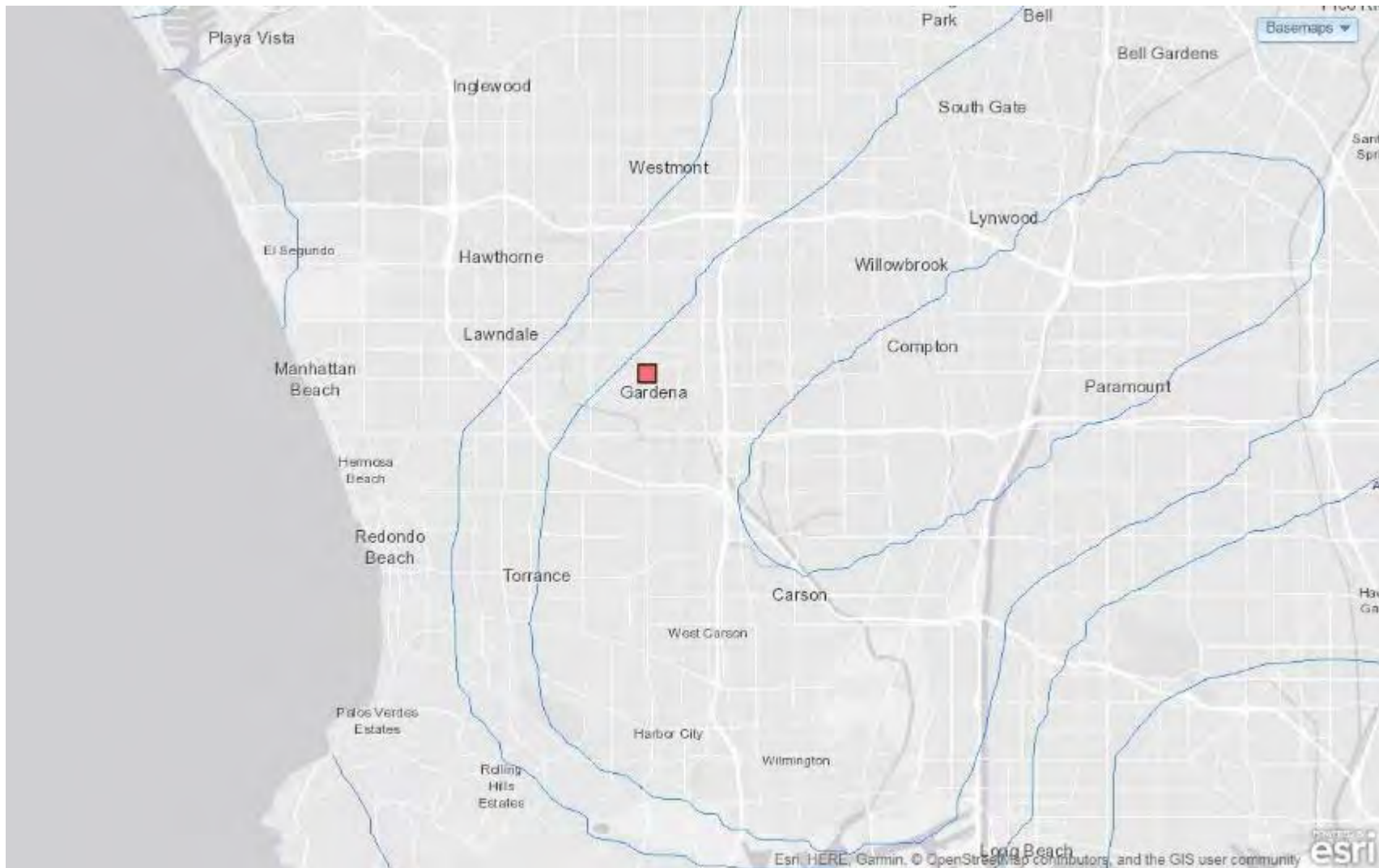


Figure-4 City of Gardena Vicinity One-year, One-hour, Isohyetal Map (0.28" to 0.32")

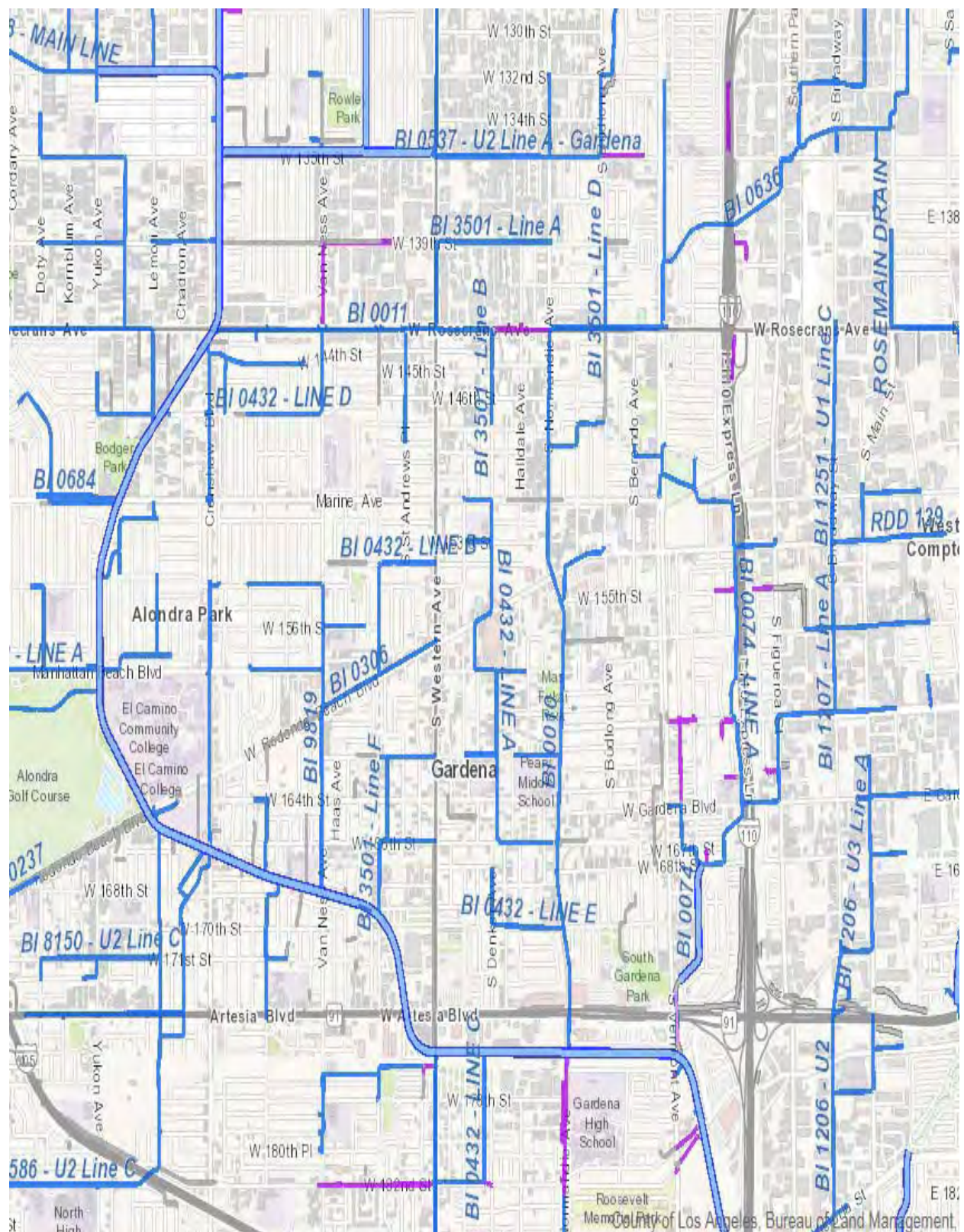


Figure-5 City of Gardena Vicinity Map showing major MS4 Elements and Outfall Locations

Provide the following information related to the Permittee(s) Drainage Area(s) within the Subwatershed:

- 1) A subwatershed map depicting the Permittee(s) jurisdictional area and the MS4, including major outfalls (with identification numbers), and low flow diversions (with identifying names or numbers) located, within the Permittee's jurisdiction.
- 2) Provide the estimated baseline percent of effective impervious area (EIA) within the Permittee(s) jurisdictional area as existed at the time that this Order became effective and, if possible, the estimated change in the stormwater runoff volume during the 85th percentile, 24-hour storm event.



City of Gardena Monitoring Locations



Figure-6 City of Gardena Jurisdiction Area Showing MS4 Elements and Major Outfalls

2) The estimated baseline Effective Impervious Area (EIA) in the City of Gardena is approximately 0.74 or 74%.

- 9.2 Rainfall Summary: Provide a rainfall summary for the reporting year including: (1) A summary of the number of storm events; (2) The highest volume event (inches/24 hours); (3) The highest number of consecutive days with measureable rainfall; and (4) The total rainfall during the reporting year compared to average annual rainfall for the subwatershed [Attachment E – XVIII.A.2]:

(1) There were a total of 12 storm events during the 2020-21 reporting period.
(2) The highest volume event began on December 28, 2020 and concluded on December 29, 2020.
(3) The highest number of consecutive days with measurable rainfall was two, from December 28 and 29, 2020.
(4) The total rainfall measured during the 2020-21 reporting period was 4.72 inches, compared to the 13.18-inch annual rainfall average for the Coastal Plain, as stated in the LACDPW 2016-17 Hydrologic Report. The total rainfall depth was significantly lower than the average, and therefore, there were significantly less qualifying storm events throughout the fiscal year. The lower-than-average rainfall also made mobilization more challenging than “normal”. Mobilization changes were implemented throughout the wet season to increase social distancing and reduce the potential risk of CoViD 19 transmission. These changes included driving separately, wearing masks, increased sanitation, and increased separation while on site.

- 9.3 SW Monitoring Event Summary: Provide a summary table describing rainfall during stormwater outfall and wet-weather receiving water monitoring events. The summary description shall include the date, time that the storm commenced and the storm duration in hours, the highest 15-minute recorded storm intensity (converted to inches/hour), the total storm volume (inches), and the time between the storm event sampled and the end of the previous storm event.

Table 10a: Summary of Stormwater Outfall and Wet Weather Receiving Water Monitoring Events						
Event	Date	Storm Start Time	Storm Duration [hours]	Highest Storm Intensity 15 min [in/hr]	Total Storm Volume [inches]	Span Between Sample Event and Previous Storm Event [hours]
Event 1	11/07/2020	07:13	1.66	0.02	0.03	120
Event 2	12/28/2020	00:12	25.7	0.56	1.68	834
Event 3	01/28/2021	19:26	17.0	1.00	1.16	88

10 Additional Information (Optional)

Provide any additional information in this section.

You may use this section to report any additional information not specified in the Individual Permittee Report Form; information in the Individual Form that is better presented outside of the report form structure; and/or data limitations that prevented requested information from being obtained. You may also provide an additional detailed summary table describing control measures that are not otherwise described in the reporting requirements.

Information and task characterizations provided in this report constitute a best effort to comply with permit requirements that may, or may not, subsequently be determined to constitute unfunded state mandates, based on future State Unfunded Mandate Commission findings. Based on these still evolving commission findings, the City of Gardena reserves the right to terminate the implementation of impacted permit provisions and seek subvention support which, if not provided, would lead to a contest of MS4 Permit enforcement. In the effort to promote shared water quality protection objectives, the City continues to implement this costly MS4 Permit to the maximum extent practicable using primarily diverted City General Funds.

On October 11, 2021, CWE was notified that, due to changing Environmental Laboratory Accreditation Program (ELAP) certification requirements, Eurofins Calscience would no longer perform Alkyl PAH analyses, only 8270C SIM PAH analyses. This was discussed with Board staff, along with the observation the alkyl PAHs were not identified in 2021, nor included in the LARWQCB 2021, MS4 Permits. This will be further addressed in the Monitoring Plan Revision due to the Board in 2023.

- 10.1 Data Limitations: If any of the requested information cannot be obtained, provide a discussion of the factor(s) limiting its acquisition and steps that will be taken to improve future data collection efforts.

The accurate calculation of watershed EIAs is based on subjective criteria that are difficult to quantify and subject to private property modifications generally considered overly intrusive for municipal oversight and regulation. Retention of storm water runoff volumes within BMPs and WCMs is dependent on impervious area, rainfall intensity, and rainfall depth that vary significantly by storm and location within the watershed. Runoff volumes captured should be estimated using assumed rainfall depth and impervious catchment area values incorporated in the annual report, rather using assumptions that ignore actual annual rainfall depths.

- 10.2 (optional) GIS Files: If available, the Permittee(s) may submit GIS project files that map all implementation of on-the-ground projects (e.g. riparian buffer/wetland restoration; distributed/green streets; regional projects; new development and redevelopment on-site; and new development and redevelopment off-site).

This information has not yet integrated into a unified database format for the City of Gardena.

- 10.3 Summary of Events Conducted During Reporting Year: Summarize the required monitoring for the year and the monitoring events conducted during the year. Also include the following summary table describing rainfall during stormwater outfall and wet-weather receiving water monitoring events: Additionally, discuss any problems with samples not being collected and their resolution.

The critical dry weather event, for the 2020-2021 reporting year, occurred on July 29, 2020, in coordination with County Mass Emission Station (MES) and Dominguez Channel EWMP Group CIMP monitoring. Mobilization for the critical first wet weather event occurred on November 7, 2020, as it was forecast as qualifying at 0600 hours on November 7, 2020, with an 85% chance of depths greater than 0.25". Because the forecast was qualifying, and because it was the critical first flush event of the season, samples were collected on November 7, 2020, although only 0.03" of rain was produced during the event. Second and third wet-weather water and sediment quality monitoring events were successfully completed on December 28, 2020 and January 28, 2021. The winter dry-weather event occurred on March 23, 2021, in coordination with Los Angeles County MES and Dominguez Channel EWMP Group Coordinated Integrated Monitoring Program (CIP) Plan monitoring.

- 10.4 Identification of Non-Direct Measurements Utilized: Identify the measurements utilized within the report that were not directly taken as part of the CIMP (e.g., wet weather flow data, precipitation data, etc.). Additionally, discuss any problems with obtaining non-direct measurements and their resolution.

Consistent with prior reporting years, rainfall data was downloaded for the Hollypark Drain #21 gauge, located within the City of Gardena, using the expanded ALERT system Website <https://ladpw.org/wrd/precip/>.

- 10.5 Regional and Special Studies: Summarize any regional and/or special studies conducted as part of meeting the CIMP requirements. Include and/or attach to this report any data not previously submitted to the Regional Water Board.

The City of Gardena is currently implementing a baseline water quality monitoring program as directed by the LARWQCB Executive Officer in its March 6, 2019, letter to the then City of Gardena City Manager. Therefore, no regional or CIMP related special studies were initiated.

- 10.6 Quality Assurance/Quality Control: Summarize Quality Assurance/Quality Control (QA/QC) results and actions to address any QA/QC issues that arose during the year. Potential issues include:

- Holding Time
- Contamination
- Precision
- Summary of Qualified Data (if necessary)

Quality assurance/quality control (QA/QC) measures were coordinated with Eurofins Calscience, for wet-chemistry analyses, and Enthalpy Analytical, for microbiological analyses. All samples were analyzed within their required holding times, requiring coordination with analytical laboratories. We understand that a different sub-laboratory will be used for mercury analyses going forward.

- 10.7 Assessment of Monitoring Data: Include and/or attach to this report any receiving water and stormwater outfall data not previously submitted to the Regional Water Board.

All monitoring data and associated metadata must be summarized in an Excel spreadsheet and sorted by watershed, subwatershed, monitoring station/outfall identifier linked to a watershed map, and monitoring condition (wet weather receiving water, dry weather receiving water, stormwater outfall, and non-stormwater outfall). The data summary must include the date, sample type, (flow-weighted composite, grab, field measurement), sample start and stop times, parameters, analytical method, value, and units.

City of Gardena water and sediment quality monitoring data, in a CEDEN style Excel® workbook, will be separately submitted to the LARWQCB by December 15, 2021.

In October 2021, CWE and the City of Gardena were advised that, due to SWRCB Environmental Laboratory Accreditation Program (ELAP) changes, Eurofins Calscience Laboratories, would no longer perform Method 8270 SIM Alkyl Polynuclear Aromatic Hydrocarbon (PAH) analyses. This analysis was undertaken in response to the March 6, 2019, Monitoring Plan Modification Approval Letter from the Board Executive Officer to the Gardena City Manager. Page 3, Table 2, of that letter, required monitoring for Total PAHs as identified in footnote 22, but the table duplicated three PAHs (Benzo(a)Anthracene, Phenanthrene, and Pyrene) identified in footnote 22, a deuterated PAH surrogate, that should not be in field samples, and alkyl (C1-C4) Chrysene (sic), suggesting that these insertions were made in haste. Since the laboratory no longer analyzes for alkyl Chrysenes and Table E-6 of the recently adopted 2021 MS4 Permit does not include them, the City of Gardena draft revised monitoring and reporting program, due to the Board in December 2022, will be amended or adaptive to more accurately reflect the analyte list identified in Table E-6 of the 2021 MS4 Permit.

10.8 Assessment of Receiving Water Monitoring Data: Provide an assessment as to whether wet-weather receiving water quality within the watershed is improving, staying the same, or declining, when normalized for variations in rainfall patterns. The assessment may compare water quality data from the reporting year to previous years with similar rainfall patterns, trends analysis, draw from regional bioassessment studies, or use other means to develop and support conclusions. Also provide an assessment as to whether receiving water quality within the watershed management group is impaired, improving, staying the same, or declining during dry-weather conditions.

Data from all receiving water sites would be assessed in this section. Water quality improvements or degradation would be identified. If aquatic toxicity was confirmed and a TIE was conducted, the toxic chemicals as determined by the TIE, will be identified. All relevant data will be included in an appendix to allow the Regional Water Board to review the adequacy and findings of the TIE, including, but not be limited to, the sample(s) date, sample(s) start and end time, sample type(s) (flow-weighted composite, grab, or field measurement), sample location(s) as depicted on the map, the parameters, the analytical results, and the applicable limitation.

For WMPs/EWMPs, this assessment should focus on Category 1, 2, and 3 Water Body-Pollutant Combinations.

For the City of Gardena, wet-weather receiving water and sediment samples were first collected in 2018 and three seasons of data collection provides insufficient data from which to develop trend assessments for water or sediment quality. Samples collected for aquatic toxicity during the first dry weather event and first two wet weather events passed both survival and reproduction bioassays.

10.9 Assessment of Stormwater Outfall-based Monitoring Data: Provide an assessment as to whether the quality of stormwater discharges as measured at designated outfalls is improving, staying the same, or declining. The assessment may compare water quality data from the reporting year to previous years with similar rainfall patterns, conduct trends analysis, or use other means to develop and support its conclusions (e.g., use of municipal action levels as provided in Attachment G of the Permit).

Data from all stormwater outfalls sites shall be assessed in this section. If aquatic toxicity was confirmed and a TIE was conducted, the toxic chemicals as determined by the TIE, will be identified. All relevant data will be included in an appendix to allow the Regional Water Board to review the adequacy and findings of the TIE, including, but not be limited to, the sample(s) date, sample(s) start and end time, sample type(s) (flow-weighted composite, grab, or field measurement), sample location(s) as depicted on the map, the parameters, the analytical results, and the applicable limitation.

For WMPs/EWMPs, this assessment should focus on Category 1, 2, and 3 Water Body-Pollutant Combinations.

The City of Gardena initiated stormwater outfall monitoring in 2018 and three seasons of data collection provides an insufficient foundation for the assessment of changes in the quality of stormwater outfall discharges. No aquatic toxicity analyses were required stormwater outfalls, nor were any collected.

10.10 Non-stormwater Outfall Screening and Monitoring Program Implementation and Assessment of Monitoring

Data: Summarize the implementation of the non-stormwater outfall screening and monitoring program and assess monitoring data collected as part of the program. The summary of program implementation shall include:

- The number and percentage of source identifications completed and their outcome.
- The number of outfalls where significant non-stormwater discharge was attributed to other NPDES permitted discharges; other authorized non-stormwater discharges; or conditionally exempt discharges pursuant to Part III.A of the Permit.
- An assessment of the effectiveness of the Permittee(s) control measures in effectively prohibiting non-stormwater discharges through the MS4 to the receiving water.
- The status of multi-year efforts related to the non-stormwater outfall screening and monitoring program that were not completed within the current year and will continue. Further details may be included in individual forms submitted by Permittees.

Data from all non-stormwater outfalls sites shall be assessed in this section. If aquatic toxicity was confirmed and a TIE was conducted, the toxic chemicals as determined by the TIE, will be identified. All relevant data will be included to allow the Regional Board to review the adequacy and findings of the TIE, including, but not be limited to, the sample(s) date, sample(s) start and end time, sample type(s) (flow-weighted composite, grab, or field measurement), sample location(s) as depicted on the map, the parameters, the analytical results, and the applicable limitation.

The initial outfall inventory was conducted on April 26, May 1, and May 3, 2019, during which, no significant discharges from the City of Gardena were observed, nor samples collected. Non-stormwater outfall screening occurred on June 7, 10, and 25, 2019, during which no significant discharges were observed, nor samples collected.

10.11 Identification of Exceedances: Summarize all identified exceedances of (1) outfall-based stormwater monitoring data, (2) wet weather receiving water monitoring data, (3) dry weather receiving water data, and (4) non-stormwater outfall monitoring data against all applicable receiving water limitations, water quality-based effluent limitations, non-stormwater action levels, and aquatic toxicity thresholds (as defined in Sections XII.F and G of the MRP).**Cause or Contribute**

Where Receiving Water Limitations were exceeded, a description of efforts that were taken to determine whether discharges from the MS4 caused or contributed to the exceedances shall be provided. The Group shall summarize all receiving water exceedances (as shown in Example Table 3); the Group shall also summarize monitoring results for all outfalls upstream of the receiving water monitoring site with an exceedance (Example Table 4). Any of the conditionally exempt non-stormwater discharges identified in Section 4.3 that are a source of pollutants that causes or contributes to an exceedance of applicable receiving water limitations and/or water quality-based effluent limitations shall be identified in this section.

Outfall Data

Additionally, outfall-based stormwater monitoring data will be compared to municipal action levels (MALs), and those sub watersheds with a running average of twenty percent or greater of exceedances of the MALs listed in Attachment G of the Permit in discharges of stormwater from the MS4 will be identified. All sample results that exceeded one or more applicable thresholds shall be identified (e.g. all outfalls exceeding receiving water limitations shall be summarized whether or not there is a downstream receiving water exceedance, as shown in Example Table 5).

As commonly observed by most Los Angeles County MS4 Permittees, the Fecal Indicator Bacteria (FIB), Escherichia coli (E. coli), is the most common Dominguez Channel receiving water limitations exceedance. During wet-weather, the two stormwater outfalls monitored by the City of Gardena contributed to this exceedance, although they are unlikely to be sole, or even primary, discharge source to the Dominguez Channel.

Table 1 Receiving Water: Limitations or Total Maximum Daily Load (TMDL) Exceedances							
Date	Monitoring Event (if available)	Condition	Receiving Water Location	Parameter	Result	Units	Upstream Outfalls Monitored
7/29/2020	2020-21 DWE1	Dry	Gardena-R1	<i>E. coli</i> ¹	15,000	MPN/100mL	None
11/07/2020	2020-21 WWE1	Wet	Gardena-R1	<i>E. coli</i> ¹	28,000	MPN/100mL	FS3, FS4
12/28/2020	2020-21 WWE2	Wet	Gardena-R1	<i>E. coli</i> ¹	15,000	MPN/100mL	FS3, FS4
1/28/2021	2020-21 WWE3	Wet	Gardena-R1	<i>E. coli</i> ¹	5,200	MPN/100mL	FS3, FS4

¹ City of Gardena MAL Action Plan is summarized in Section 10.13.

Table 2 Monitoring Results for Monitored Outfalls Upstream of a Receiving Water Exceedance							
Date	Monitoring Event (if available)	Condition	Gardena Outfall	Parameter	Result	Units	WQBEL/RWL Exceedance?
11/07/2020	2020-21 WWE1	Wet	FS3	<i>E. coli</i> ¹	90,000	MPN/100mL	Yes
11/07/2020	2020-21 WWE1	Wet	FS4	<i>E. coli</i> ¹	80,000	MPN/100mL	Yes
12/28/2020	2020-21 WWE2	Wet	FS3	<i>E. coli</i> ¹	9,800	MPN/100mL	Yes
12/28/2020	2020-21 WWE2	Wet	FS4	<i>E. coli</i> ¹	15,000	MPN/100mL	Yes
1/28/2021	2020-21 WWE3	Wet	FS3	<i>E. coli</i> ¹	2,000	MPN/100mL	Yes
1/28/2021	2020-21 WWE3	Wet	FS4	<i>E. coli</i> ¹	2,400	MPN/100mL	Yes

¹ City of Gardena MAL Action Plan is summarized in Section 10.13.

Table 3 Summary of All Outfalls with Result(s) Above Applicable WQBEL/RWL							
Date	Monitoring Event (if available)	Condition	LARUR2 Outfall	Parameter	Result	Units	Receiving Water
11/07/2020	2020-21 WWE1	Wet	FS3	<i>E. coli</i> ¹	90,000	MPN/100mL	Yes
11/07/2020	2020-21 WWE1	Wet	FS4	<i>E. coli</i> ¹	80,000	MPN/100mL	Yes
12/28/2020	2020-21 WWE2	Wet	FS3	<i>E. coli</i> ¹	9,800	MPN/100mL	Yes
12/28/2020	2020-21 WWE2	Wet	FS4	<i>E. coli</i> ¹	15,000	MPN/100mL	Yes
1/28/2021	2020-21 WWE3	Wet	FS3	<i>E. coli</i> ¹	2,000	MPN/100mL	Yes
1/28/2021	2020-21 WWE3	Wet	FS4	<i>E. coli</i> ¹	2,400	MPN/100mL	Yes

¹ City of Gardena MAL Action Plan is summarized in Section 10.13..

- 10.12 TMDL Provisions and WMP/EWMP Milestones:** Report on progress towards achieving interim or final milestones, water quality-based effluent limitations, and receiving water limitations based on applicable compliance schedules in Attachments L-R of the LA County MS4 Permit and any additional milestones and corresponding deadlines in an approved WMP/EWMP.

TMDL reporting items required per the applicable schedules outlined in Attachment E, Section XIX.A through XIX.G of the Permit may be provided here or as an attachment to this report.

Monitoring data for copper, lead, and zinc were evaluated against the Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters Toxic Pollutants TMDLs interim WQBELs for discharges to the freshwater Dominguez Channel during wet-weather. No exceedances were observed among the reported data.

On November 12, 2020, the Office of Environmental Health Hazard Assessment (OEHHA) released Health Advisory And Guidelines for Eating Fish from Alondra Park Lake (Los Angeles County)²³ due to PCB and Mercury contamination. This report and Fact Sheets may be found on the following pages. Based on the non-stormwater, rising groundwater derived discharge, through the undocumented connection between the Lake and Dominguez Channel, discovered on April 15, 2020, we suspect the lake may be a potential contributing source of many of the legacy pollutants identified within the Los Angeles Harbor Toxics TMDL and any receiving water monitoring required of the City of Gardena.

- 10.13 Efforts to Address Exceedances:** The previous sections summarized all activities completed during the Reporting Year. This section shall be used to link the aforementioned activities to specific exceedances identified within the Reporting Year. The section may reference activities discussed within Section 7 and would also include the following:

- A description of efforts that were taken to address stormwater discharges that exceeded one or more applicable water quality based effluent limitations, or caused or contributed to Aquatic Toxicity.
- Where Receiving Water Limitations were exceeded, a description of all efforts that were taken to control the discharge of pollutants from the MS4 to those receiving waters in response to the exceedances.
- For sub watersheds not part of a WMP or EWMP, and/or not subject to any TMDLs, where a running average of twenty percent or greater of exceedances of the MALs in any discharge of stormwater from the MS4 is present, a MAL Action Plan must be submitted with the Annual Report. Where applicable, the Action Plan should be included here.

Along with most MS4 Permittees, the only commonly observed exceedance found by the City of Gardena Monitoring program continues to be the fecal indicator bacteria E. coli. This pollutant is unique in replicating and forming biofilms along drainage conveyance facility walls, in sediments, and in and of itself is normally harmless or even beneficial, however it can be indicative of the potential for fecal contamination from many organisms. In response to this Municipal Action Level (MAL) or Receiving Water Limitations (RWL) exceedance, the City of Gardena continues to more fully implement the MS4 Permit I/C inspection program and assess the need for better trash and grease controls within the City. Our initial efforts have identified a significant food service establishment educational need, that will be carried forward into the next permit cycle.

²³ <https://oehha.ca.gov/advisories/alondra-park-lake>

OFFICE OF ENVIRONMENTAL HEALTH HAZARD ASSESSMENT



Health Advisory and Guidelines for Eating Fish from Alondra Park Lake (Los Angeles County)

November 2020



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Alondra Park Lake Fish Advisory

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LIST OF ACRONYMS AND ABBREVIATIONS

ATL	Advisory Tissue Level
CDFW	California Department of Fish and Wildlife
DDT(s)	dichlorodiphenyltrichloroethane (DDT) and its metabolites dichlorodiphenyldichloroethane (DDD) and dichlorodiphenyldichloroethylene (DDE)
DHA	docosahexaenoic acid
EPA	eicosapentaenoic acid
FDA	Food and Drug Administration
Hg	mercury
MDL	method detection limit
MLML	Moss Landing Marine Laboratories
mm	millimeters
OEHHA	Office of Environmental Health Hazard Assessment
PBDEs	polybrominated diphenyl ethers
PCBs	polychlorinated biphenyls
ppb	parts per billion
RL	reporting limit
RWB4	Regional Water Board 4 (Los Angeles)
Se	selenium
SWAMP	Surface Water Ambient Monitoring Program
SWRCB	State Water Resources Control Board
USDA	United States Department of Agriculture
USDHHS	United States Department of Health and Human Services
US EPA	United States Environmental Protection Agency

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PREFACE

The Office of Environmental Health Hazard Assessment (OEHHA), a department in the California Environmental Protection Agency, is responsible for evaluating potential public health risks from chemical contamination of sport fish. This includes issuing fish consumption advisories, when appropriate, for the State of California. OEHHA's authorities to conduct these activities are based on mandates in the:

- California Health and Safety Code
 - Section 59009, to protect public health
 - Section 59011, to advise local health authorities
- California Water Code
 - Section 13177.5, to issue health advisories

The health advisories are published in the California Department of Fish and Wildlife Sport Fishing Regulations in the section on public health advisories.

This report presents guidelines for eating fish from Alondra Park Lake in Los Angeles County. The report provides background information and a technical description of how the guidelines were developed. The resulting advice is summarized in the illustrations after the Table of Contents and List of Figures and Tables.

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Alondra Park Lake Fish Advisory

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A GUIDE TO EATING FISH from ALONDRA PARK LAKE
(LOS ANGELES COUNTY)

 Women (18-49 Years) Children (1-17 Years)		 Women (50+ Years) Men (18+ Years)	
5 TOTAL SERVINGS A WEEK	OR	7 TOTAL SERVINGS A WEEK	OR
1 TOTAL SERVING A WEEK	OR	2 TOTAL SERVINGS A WEEK	OR
1 TOTAL SERVING A WEEK		1 TOTAL SERVING A WEEK	

Sunfish Species

Black Bass Species
High in mercury

Common Carp

Serving Size
A serving of fish is about the size and thickness of your hand. Give children smaller servings.

For Adults  **For Children** 

California Office of Environmental Health Hazard Assessment
www.oehha.ca.gov/fish
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Eat only the skinless fish  **Eat only the meat** 
Some chemicals are higher in the skin, fat, and guts.

Eat the Good Fish
Eating fish that are low in chemicals may provide health benefits to children and adults.

Avoid the Bad Fish
Eating fish with higher levels of chemicals like mercury or PCBs may cause health problems in children and adults.

Choose the Right Fish
Chemicals may be more harmful to unborn babies and children.

Alondra Park Lake Fish Advisory

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INTRODUCTION

This report presents guidelines for eating black bass species, Common Carp, and sunfish species from Alondra Park Lake (Figure 1) in Los Angeles County.

LOCATION

Alondra Park Lake is located in Lawndale, approximately five miles northeast of Redondo Beach and ten miles southwest of downtown Los Angeles. The lake is part of the 53-acre Alondra Community Regional Park, which is managed by the Los Angeles County Department of Parks and Recreation.

FIGURE 1. LOCATION OF ALONDRA PARK LAKE



APPROACH USED

The Office of Environmental Health Hazard Assessment (OEHHA) used the results from three monitoring studies described in this report to develop the Alondra Park Lake Advisory. OEHHA uses the following general process in developing consumption advice for sport fish:

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- 1) Evaluation of all fish contaminant data available from a water body and selection of appropriate data that meet data quality criteria and sampling plan guidelines.
- 2) Determination of fish species for which adequate data are available to issue fish consumption advice.
- 3) Calculation of an appropriate measure of central tendency (often a weighted arithmetic mean¹) and other descriptive statistics of the contaminant data, as appropriate, for a chemical of potential concern for the selected fish species.
- 4) Comparison of the chemical concentrations with the OEHHA Advisory Tissue Levels (ATLs) for each chemical of potential concern.
- 5) Development of final advice based on a thorough review of the data and best professional judgment relating to the benefits and risks of consuming a particular fish species.

The ATLs (discussed further in a subsequent section of this report) are chemical levels in fish tissue that are considered acceptable, based on chemical toxicity, for a range of consumption rates. Development of the ATLs also included consideration of health benefits associated with including fish in the diet (OEHHA, 2008). The ATLs should not be interpreted as static "bright lines," but one component of a complex process of data evaluation and interpretation used by OEHHA in the assessment and communication of the benefits and risks of consuming sport fish.

CHEMICALS OF POTENTIAL CONCERN

Certain chemicals are considered to be of potential concern for people who eat fish because of their toxicity and their ability to accumulate in fish tissue. The majority of fish consumption advisories in California are issued because of mercury (Hg), followed by polychlorinated biphenyls (PCBs) and, in a few cases, selenium (Se), polybrominated diphenyl ethers (PBDEs), or some legacy pesticides (pesticides that are no longer used but remain in the environment).

Mercury is a natural element found in some rock and soil. Human activities, such as burning coal and the historical use of mercury to mine gold, also add mercury to the environment. If mercury enters waterways, it can be converted to a more toxic form known as methylmercury – which can pass into and build up in fish. High levels of methylmercury can harm the brain, especially in fetuses and children.

PCBs are industrial chemicals previously used in electrical transformers, plastics, and lubricating oils, often as flame retardants or electrical insulators. Their use was banned in the 1970s, but they persist in the environment because they do not break down easily

¹ Means are an arithmetic average of individual values and/or a weighted average of composites. A weighted average of composites is calculated by multiplying the chemical concentration in each composite by the number of fish in that composite for each species. Products are then summed and divided by the total number of fish in all composites for that species.

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and can accumulate in fish. Depending on the exposure level, PCBs may cause cancer or other health effects, including neurotoxicity, in humans.

Selenium is a naturally occurring metalloid and at low doses is an essential nutrient for many important human health processes, including thyroid regulation and vitamin C metabolism. Higher doses cause selenium toxicity, which can include symptoms ranging from hair loss and gastrointestinal distress to dizziness and tremors.

Chlordanes, dichlorodiphenyltrichloroethane (DDT), dieldrin, and toxaphene are pesticides that were banned from use in 1973 (DDT), the late 1980s (chlordanes and dieldrin) and 1990 (toxaphene), but are still found in some fish in certain California water bodies. Depending on the exposure level, these chemicals may cause cancer or adverse effects on the nervous system.

PBDEs are a class of flame retardants historically used in a variety of consumer products including furniture, textiles, automotive parts, and electronics. The use of PBDEs in new products was largely phased out by 2013 but, due to their wide usage and persistence in the environment, they are still being detected in fish tissues. PBDEs may affect hormone levels or learning and behavior in children.

Detailed discussion of the toxicity of these chemicals and references are presented in "Development of Fish Contaminant Goals and Advisory Tissue Levels for Common Contaminants in California Sport Fish: Chlordane, DDTs, Dieldrin, Methylmercury, PCBs, Selenium, and Toxaphene" (OEHHA, 2008) and "Development of Fish Contaminant Goals and Advisory Tissue Levels for Common Contaminants in California Sport Fish: Polybrominated Diphenyl Ethers (PBDEs)" (OEHHA, 2011).

All fish species collected from Alondra Park Lake and used in advisory development were analyzed for mercury (as a measure of methylmercury), PCBs, and selenium. Common Carp and Largemouth Bass were also analyzed for PBDEs and the legacy pesticides chlordanes (cis-chlordane, trans-chlordane, cis-nonachlor, trans-nonachlor, and oxychlordane), dieldrin, and DDTs (DDT and its metabolites dichlorodiphenyldichloroethane [DDD] and dichlorodiphenyldichloroethylene [DDE]). Fish species that do not normally accumulate PCBs or other organic chemicals may not be analyzed for those contaminants in a particular monitoring study. Additionally, some studies do not analyze these chemicals and instead focus only on mercury.

DATA SOURCES

The guidelines for eating fish from Alondra Park Lake are based on the chemicals detected in the fish collected for the three monitoring studies described below. These studies met OEHHA's data quality criteria, including adequate documentation of sample collection, fish preparation methods (e.g., skinning or filleting), chemical analyses, quality assurance, and sufficiently low detection limits. "Sample," as used in this report, refers to an individual fish or a composite of multiple fish for which contaminant data

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were reported. "Sampling" or "sampled" refers to the act of collecting fish for chemical analysis.

CONTAMINANTS IN FISH FROM CALIFORNIA LAKES AND RESERVOIRS, 2007–2008 (SWAMP)

The Surface Water Ambient Monitoring Program (SWAMP), operated by the State Water Resources Control Board (SWRCB), in cooperation with the Los Angeles Regional Water Quality Control Board (RWB4), monitors water quality in California's surface waters. In 2007 and 2008, SWAMP conducted a two-year screening survey to initiate a statewide sampling effort to identify and quantify contaminants in sport fish found in California lakes and reservoirs (SWRCB, 2010) to examine exposure and risk to humans and wildlife. The program collected Common Carp and Largemouth Bass from Alondra Park Lake in 2007 to analyze chlordanes, DDTs, dieldrin, mercury, PBDEs, and PCBs. Common Carp were additionally analyzed for selenium.

LONG-TERM MONITORING OF BASS LAKES AND RESERVOIRS, 2017 (SWAMP)

In 2015, SWAMP began a multi-year sampling effort to monitor trends in mercury concentrations in lakes and reservoirs dominated by black bass species, a well-known accumulator of mercury, to assess the efficacy of management actions (Davis et al. 2019). In 2017, Bluegill and Largemouth Bass were collected from Alondra Park Lake for the study and were analyzed for mercury and selenium. Bluegill were additionally analyzed for PCBs.

LOS ANGELES LAKES SPORTFISH CONTAMINATION STUDY, 2010 AND 2019 (RWB4)

The RWB4 coordinates ongoing sampling efforts to monitor contaminant levels, including mercury, in sport fish caught from lakes and reservoirs within the region (LARWQCB, 2012). In 2010, Largemouth Bass were collected and analyzed for mercury. In 2019, Bluegill, Common Carp, and Largemouth Bass were collected and analyzed for mercury and selenium.

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FISH SAMPLED FROM ALONDRA PARK LAKE

The fish sampling data used in this advisory were retrieved from the California Environmental Data Exchange Network (CEDEN), the state's repository for environmental data. Samples were excluded when the fish were not legal size to take or did not meet OEHHA's criteria for minimum "edible" size based on species size at maturity, and professional judgment (as described in OEHHA, 2005). A summary of all fish species evaluated for this advisory is shown in Table 1, including the name of the species, number of samples collected, total number of fish, project name, year sampled, and contaminants analyzed.

TABLE 1. FISH SAMPLES EVALUATED FOR THE ALONDRA PARK LAKE ADVISORY

Common Name	Scientific Name	Number of Samples	Total Number of Fish	Project*	Year Collected	Contaminants Analyzed
Bluegill	<i>Lepomis macrochirus</i>	1	4	RWB4	2019	Hg, Se
		1	10	SWAMP	2017	Hg, PCBs, Se
Common Carp	<i>Cyprinus carpio</i>	1	5	RWB4	2019	Hg, Se
		2	10	SWAMP	2007	Chlordanes, DDTs, Dieldrin, Hg, PBDEs, PCBs
		1	5	SWAMP	2007	Se
Largemouth Bass	<i>Micropterus salmoides</i>	10	10	RWB4	2019	Hg
		1	10	RWB4	2019	Se
		7	7	SWAMP	2017	Hg
		1	5	SWAMP	2017	Se
		5	5	RWB4	2010	Hg
		12	12	SWAMP	2007	Hg
		2	10	SWAMP	2007	Chlordanes, DDTs, Dieldrin, PBDEs, PCBs

*Samples for each study were analyzed as skinless fillets

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CHEMICAL CONCENTRATIONS

As shown in Table 1, samples were analyzed for one or more of the following: total mercury, selenium, chlordanes, DDTs, dieldrin, PBDEs (7 congeners), and PCBs (54–59 congeners)². Among the chemicals analyzed in fish tissue samples from Alondra Park Lake, only mercury and PCB levels were sufficiently high to impact consumption advice.

All fish samples were prepared as skinless filets, and samples were analyzed as individual fish or composites.

For this advisory, OEHHA used the weighted (by the number of individual fish) arithmetic mean (average) of the chemical concentrations (in wet weight) for each fish species to estimate average human exposure.

MERCURY

Samples were analyzed for total mercury, as either individual fish or composite samples, using a direct mercury analyzer (DMA) at the CDFW Moss Landing Marine Laboratories (MLML). The DMA method utilizes thermal decomposition and atomic absorption. OEHHA assumed all mercury detected was methylmercury, which is the most common form found in fish and is also the more toxic form (Bloom, 1992). Table 2 shows the averages and ranges for total length³, as well as mercury concentrations in each fish species. The DMA method detection limit (MDL)⁴ and the reporting limit (RL)⁵ for total mercury were reported at 3, 4, or 12 and 9, 12, or 36 parts per billion (ppb), respectively, depending on the study.

PCBs, PBDEs, AND PESTICIDES

Some composite samples were analyzed for PCBs, PBDEs, and the legacy pesticides (chlordanes, DDTs, and dieldrin). Pesticides, PBDEs and PCBs were analyzed by gas chromatography at the CDFW Water Pollution Control Laboratory. For chlordanes, DDTs, PCBs, and PBDEs, each of the concentrations presented was the sum of the detected parent compound, congeners, or metabolites, where applicable. Since the MDLs or RLs were relatively low (≤ 5 ppb), individual congeners or metabolites with concentrations reported as non-detects were assumed to be zero. This is a standard method of handling non-detect values for PCBs and other chemicals with multiple congeners or metabolites in a given sample when detection levels are adequate (US

² Congeners are related compounds with similar chemical forms. Of the 209 possible PBDE and PCB congeners, 6–7 and 54–55 are generally reported, respectively.

³ Total length is the maximum length of the fish, measured from the tip of the closed mouth to the tip of the pinched tail fin.

⁴ The MDL is the lowest quantity of a chemical that can be distinguished (as greater than zero) in a sample.

⁵ The RL is the lowest quantity of a chemical that can be accurately quantified in a sample.

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EPA, 2000a). Table 3 shows the averages and ranges for total length⁶, as well as PCB concentrations in each fish species.

SELENIUM

The CDFW MLML analyzed species collected from Alondra Park Lake for selenium, as composite samples, using inductively coupled plasma-mass spectrometry (ICP-MS). The ICP-MS method utilizes desolvation, atomization and ionization with ion separation based on a mass-to-charge ratio to detect the total selenium concentration in a sample. The ICP-MS method detection limit (MDL) and the reporting limit (RL) for total selenium were reported at 3, 100, or 150 and 9, 300, or 400 ppb, respectively, depending on the study.

Concentrations of chlordanes, dieldrin, DDTs, PBDEs, and selenium were lower than the corresponding ATL threshold values for daily consumption (OEHHA, 2008 and 2011). These chemicals were therefore not considered further for developing consumption advice and are not shown in this report.

TABLE 2. MERCURY CONCENTRATIONS IN FISH FROM ALONDRA PARK LAKE

Species from Alondra Park Lake	Number of Samples ^a	Total Number of Fish	Mean* Total Length (mm)	Range of Total Lengths** (mm)	Mercury (ppb)	
					Mean*	Range**
Bluegill	2	14	127	107 – 149	40	35 – 42
Common Carp	3	15	682	604 – 800	49	24 – 71
Largemouth Bass	34	34	409	308 – 557	248	91 – 507

^aSamples were analyzed as skinless fillets

*Means are an arithmetic average of individual values and/or a weighted average of composites.

**Range of individuals and/or range of the composites.

TABLE 3. PCB CONCENTRATIONS IN FISH FROM ALONDRA PARK LAKE

Species from Alondra Park Lake	Number of Samples ^a	Total Number of Fish	Mean* Total Length (mm)	Range of Total Lengths** (mm)	PCB (ppb)	
					Mean*	Range**
Bluegill	1	10	123	107 – 147	1	n/a
Common Carp	2	10	675	604 – 748	52	45 – 59
Largemouth Bass	2	10	468	362 – 526	12	3 – 20

^aSamples were analyzed as skinless fillets

*Means are an arithmetic average of individual values and/or a weighted average of composites.

**Range of individuals and/or range of the composites.

n/a = not applicable due to a single sample

⁶ Total length is the maximum length of the fish, measured from the tip of the closed mouth to the tip of the pinched tail fin.

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DEVELOPMENT OF GUIDELINES FOR EATING FISH FROM ALONDRA PARK LAKE

The OEHHA fish advisory process considers the health benefits of fish consumption as well as the risk from exposure to the chemical contaminants found in fish. Benefits are included in the advisory process because there is considerable evidence and scientific consensus that fish should be part of a healthy, well-balanced diet. Fish contain many nutrients that are important for general health and, in particular, help promote optimal growth and development of babies and young children, and may reduce the incidence of heart disease in adults (FDA/US EPA, 2017; American Heart Association, 2016; OEHHA, 2008; Institute of Medicine, 2007; Kris-Etherton et al., 2002). Fish are a significant source of the specific omega-3 fatty acids, docosahexaenoic acid (DHA) and eicosapentaenoic acid (EPA), thought to be associated with these beneficial health effects (USDA/USDHHS, 2015; Weaver et al., 2008).

The 2015–2020 US Dietary Guidelines recommend that 1) the general population “consume eight or more ounces per week (less for young children)” of a variety of seafood⁷ “for the total package of nutrients that seafood provides, including its EPA and DHA content” and 2) “women who are pregnant or breastfeeding should consume at least eight and up to twelve ounces of a variety of seafood per week from choices that are lower in methylmercury” (USDA/USDHHS, 2015). The particular fish that people eat is an important factor in determining the net beneficial effects of fish consumption. For example, studies have shown that children of mothers who ate low-mercury fish during pregnancy scored better on cognitive tests compared to children of mothers who did not eat fish or ate high-mercury fish (Oken et al., 2005 and 2008). Accordingly, because of the high mercury content of certain fish species, the US Food and Drug Administration (FDA) and the US Environmental Protection Agency recommend that women who are pregnant (or might become pregnant) or breastfeeding, and young children avoid consuming shark, swordfish, tilefish (Gulf of Mexico), bigeye tuna, marlin, orange roughy, and king mackerel (FDA/US EPA, 2017).

In order to address the potential health concerns associated with exposure to contaminants in sport fish, OEHHA has established ATLs for chemicals that are known to accumulate in the edible tissues of fish. ATLs consider both the toxicity of the chemical and potential benefits of eating fish. OEHHA uses the ATLs to determine the maximum number of servings per week that consumers can eat, for each species and at each location, to limit their exposure to these contaminants. Consumers can use OEHHA’s guidance when choosing which fish and how much to eat as part of an overall healthy diet.

There are two sets of ATLs for methylmercury in fish because of the age-related toxicity of this chemical (OEHHA, 2008). The fetus and children are more sensitive to the toxic

⁷ “Marine animals that live in the sea and in freshwater lakes and rivers. Seafood includes fish, such as salmon, tuna, trout, and tilapia, and shellfish, such as shrimp, crab, and oysters” (USDHHS/USDA, 2015).

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effects of methylmercury. Thus, the ATLs for the sensitive population, including women who might become pregnant (typically 18 to 49 years of age) and children 1–17 years, are lower than those for women 50 years and older, and men 18 years and older. The lower ATL values for the sensitive population provide additional protection to allow for normal growth and development of the brain and nervous system of unborn babies and children. Detailed discussion about the toxicity of common fish contaminants and health benefits of fish consumption, as well as derivation of the ATLs, are provided in "Development of Fish Contaminant Goals and Advisory Tissue Levels for Common Contaminants in California Sport Fish: Chlordane, DDTs, Dieldrin, Methylmercury, PCBs, Selenium, and Toxaphene" (OEHHA, 2008) and "Development of Fish Contaminant Goals and Advisory Tissue Levels for Common Contaminants in California Sport Fish: Polybrominated Diphenyl Ethers (PBDEs)" (OEHHA, 2011). A list of the ATLs used in this report is presented in Appendix I.

For each fish species in this advisory, OEHHA compared the mean mercury and PCB concentrations detected in the fillet to the corresponding ATLs to establish the maximum number of servings per week that could be consumed (see Appendix I). A serving size is considered to be 8 ounces, prior to cooking, or about the size and thickness of a hand for fish fillets. Children should be given smaller servings. For smaller fish species, several individuals may be required to yield a serving.

The consumption advice for a fish species is initially based on the chemical with the lowest allowable number of servings per week. Because some chemicals, such as mercury and PCBs, are known to have similar adverse effects, additivity of toxicity is assumed in such cases and may be assessed using multiple chemical exposure methodology (US EPA, 1989 and 2000b). If two or more chemicals with similar adverse effects are present in fish tissue at levels above the corresponding ATL values for daily consumption, multiple chemical exposure methodology is employed. This may result in advising the sensitive population to consume fewer meals per week than would be the case for the presence of one chemical alone, in a similar concentration. The potential effect of multiple chemical exposures (mercury and PCBs) was assessed in Bluegill, Common Carp, and Largemouth Bass and did not affect advice for any species. Advice for all species in this advisory was based solely on mercury or PCB concentrations.

OEHHA recommends that individuals strive to meet the US Dietary Guidelines seafood consumption recommendations, while also adhering to federal and OEHHA recommendations to limit the consumption of fish with higher contaminant levels. The advice discussed in the following section represents the maximum recommended number of servings per week for different fish species. People should eat no more than the recommended number of servings for each fish species or species group. OEHHA's consumption advice for a particular fish species can be extended to other closely related fish species⁸ known to accumulate similar levels of contaminants.

⁸ Fish species within the same genus are most closely related, and family is the next level of relationship.

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Consumption advice should not be combined. That is, if a person chooses to eat a fish from the "one-serving-a-week" category, then they should not eat any other fish from any source (including commercial) until the next week. If a person chooses to eat a fish from the "two-servings-per-week" category, they can combine fish species from that category, or eat one fish from that category and one from a category that recommends more than two-servings-per-week (if available), for a total of two servings in that week. Then they should not eat any other fish from any source (including commercial) until the following week.

CONSUMPTION ADVICE FOR FISH FROM ALONDRA PARK LAKE

OEHHA's advisory protocol requires at least nine fish of a species to be collected from a water body before an advisory can be developed for the primary contaminant of concern. This is to ensure the sample dataset is representative of the fish species population in the water body. In some cases, an exception is made for species that are commonly caught and consumed from a given water body but where available data may be limited. For Alondra Park Lake, the sample size criterion was met for Bluegill, Common Carp, and Largemouth Bass. There were not sufficient data to evaluate other species that may be found in this water body. For fish species found in Alondra Park Lake that are not included in this advisory, OEHHA recommends following the [statewide advisory for lakes and reservoirs without site-specific advice](#).

The following advice for black bass and sunfish species is based solely on mercury concentrations and common carp is based on PCB concentrations. The sensitive population is defined as women 18 to 49 years and children 1 to 17 years, and the general population is defined as women 50 years and older, and men 18 years and older.

BLACK BASS SPECIES (LARGEMOUTH BASS)

The mean mercury and PCB concentrations in Largemouth Bass from Alondra Park Lake were 248 and 12 ppb, respectively. Based on the mean mercury concentration, OEHHA recommends a maximum of one serving a week for the sensitive population, and a maximum of two servings a week for the general population. PCBs did not affect advice for Largemouth Bass.

OEHHA has evaluated mercury concentrations in black bass species in many water bodies in California and has found a similar range of mercury concentrations when two or more of these species were caught from the same water body. Therefore, OEHHA extends the consumption advice for Largemouth Bass to other black bass species, including Redeye, Smallmouth, and Spotted Bass.

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COMMON CARP

The mean mercury and PCB concentrations in Common Carp from Alondra Park Lake were 49 and 52 ppb, respectively. Based on PCBs, OEHHA recommends a maximum of one serving a week of Common Carp for both the sensitive and general populations. Mercury did not affect advice for Largemouth Bass.

SUNFISH SPECIES (BLUEGILL)

The mean mercury and PCB concentrations in Bluegill from Alondra Park Lake were 40 and 1 ppb, respectively. Based on the concentration of mercury, OEHHA recommends a maximum of five servings a week of sunfish species for the sensitive population, and a maximum of seven servings a week for the general population. PCBs did not impact advice.

OEHHA has evaluated mercury concentrations in sunfish species in many water bodies in California and has found a similar range of mercury concentrations when two or more of these species were caught from the same water body. Therefore, OEHHA extends the consumption advice for Bluegill to other sunfish species, including Green Sunfish, Pumpkinseed, and Redear Sunfish.

RECOMMENDED MAXIMUM NUMBER OF SERVINGS

The recommended maximum numbers of servings per week for fish from Alondra Park Lake are shown in Table 4.

TABLE 4. RECOMMENDED MAXIMUM NUMBER OF SERVINGS PER WEEK FOR FISH FROM ALONDRA PARK LAKE

Fish Species	Women 18–49 years and Children 1–17 years	Women 50 years and older and Men 18 years and older
Black Bass Species	1	2
Common Carp	1	1
Sunfish Species	5	7

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APPENDIX I. ADVISORY TISSUE LEVELS

Advisory Tissue Levels (ATLs) guide the development of advice for people eating sport fish. ATLs are levels of contaminants found in fish that correspond to the maximum numbers of recommended fish servings. OEHHA uses ATLs to provide advice to prevent consumers from being exposed to:

- More than the average daily reference dose⁹ for chemicals not known to cause cancer, such as methylmercury, or
- For cancer-causing chemicals, a risk level greater than one additional cancer case in a population of 10,000 people consuming fish at the given consumption rate over a lifetime. This cancer endpoint is the maximum acceptable risk level recommended by the US EPA (2000b) for fish advisories.

For each chemical, ATLs were determined for both cancer and non-cancer risk, if appropriate, for one to seven eight-ounce servings per week. The most health-protective ATLs for each chemical, selected from either cancer or non-cancer based risk, are shown in the table below for zero to seven servings per week. When the guidelines for eating fish from Alondra Park Lake are followed, exposure to chemicals in fish from Alondra Park Lake would be at or below the average daily reference dose or the cancer risk probability of one in 10,000.

ADVISORY TISSUE LEVELS FOR SELECTED ANALYTES

Contaminant	Consumption Frequency Categories (8-ounce servings/week) ^a and ATLs (in ppb)							
	7	6	5	4	3	2	1	0
Chlordanes	≤ 80	>80–90	>90–110	>110–140	>140–190	>190–280	>280–560	>560
DDTs	≤ 220	>220–260	>260–310	>310–390	>390–520	>520–1,000	>1,000–2,100	>2,100
Dieldrin	≤ 7	>7–8	>8–9	>9–11	>11–15	>15–23	>23–46	>46
MeHg (Women 18–49 and children 1–17)	≤ 31	>31–36	>36–44	>44–55	>55–70	>70–150	>150–440	>440
MeHg (Women > 49 and men)	≤ 94	>94–109	>109–130	>130–160	>160–220	>220–440	>440–1,310	>1,310
PBDEs	≤ 45	>45–52	>52–63	>63–78	>78–100	>100–210	>210–630	>630
PCBs	≤ 9	>9–10	>10–13	>13–16	>16–21	>21–42	>42–120	>120
Selenium	≤ 1000	>1,000–1200	>1,200–1,400	>1,400–1,800	>1,800–2,500	>2,500–4,900	>4,900–15,000	>15,000
Toxaphene	≤ 87	>87–100	>100–120	>120–150	>150–200	>200–300	>300–610	>610

^a Serving sizes (prior to cooking, wet weight) are based on an average 160-pound person. Individuals weighing less than 160 pounds should eat proportionately smaller amounts.

⁹ The reference dose is an estimate of the maximum daily exposure to a chemical likely to be without significant risk of harmful health effects over a lifetime.



INFORMATION ABOUT EATING FISH FROM ALONDRA PARK LAKE (LOS ANGELES COUNTY)

Office of Environmental Health Hazard Assessment (OEHHA)
California Environmental Protection Agency
November 2020

Why did OEHHA develop an advisory for eating fish from Alondra Park Lake?

OEHHA developed an advisory for Alondra Park Lake because of mercury and PCBs found in the fish caught from this water body. Alondra Park Lake is located in Lawndale, approximately ten miles southwest of downtown Los Angeles, in Los Angeles County. This advisory is part of an ongoing effort by OEHHA to provide safe-eating advice for fish in different California water bodies.

Why should I eat fish?

- Low-contaminant fish are an important part of a healthy, well-balanced diet. The American Heart Association recommends eating at least two servings of fish each week.
- Fish are a good source of protein and vitamins, and are a primary dietary source of heart-healthy omega-3 fatty acids. Eating low-contaminant fish while pregnant may help the baby's brain develop.

Which chemicals are of concern for people eating fish from Alondra Park Lake?

- Mercury
 - Mercury is a metal that comes from natural sources, mining, and air fallout from burning coal and other fuels. It is the most commonly found contaminant in fish.
 - Too much methylmercury, the form of mercury found in fish, can harm the brain, especially in fetuses, babies, and children. Mothers can pass methylmercury to their babies during pregnancy.
 - Because fetuses, babies, and children are especially sensitive to mercury, OEHHA has one set of advice for the amount of mercury-containing fish that women age 18-49 years and children should eat, and another set of advice for women 50 years and older and men 18 years and older.
- Polychlorinated Biphenyls (PCBs)
 - PCBs are industrial chemicals. While banned in the 1970s, they persist for many years in the environment and are still found in the air, sediment, and water from spills, leaks, and improper disposal.
 - High levels of PCBs can increase cancer risk. PCBs may also harm the developing fetus, which can include effects on growth and learning. Women can pass PCBs on to their babies during pregnancy and breastfeeding.

- PCBs can build up to very high levels in the skin, fat, and some internal organs of fish. That is why OEHHA recommends eating only skinless fillet (meat) of fish.

How did OEHHA determine the consumption guidelines for fish from Alondra Park Lake?

- OEHHA compared chemical levels in fish caught from Alondra Park Lake to levels that are considered safe for human consumption.
- OEHHA's consumption guidelines balance the risks and benefits of fish consumption.

What does OEHHA recommend for people who want to eat fish from Alondra Park Lake?

- OEHHA recommends the amounts and types of fish that may be eaten each week as "servings." A serving is about the size and thickness of your hand for fish fillets. Give children smaller servings. For smaller fish species, several individual fish may be required to yield a serving.
- Women 18-49 years and children 1-17 years may eat:
 - 1 total serving per week of Common Carp or black bass species, or
 - 5 total servings per week of sunfish species
- Women 50 years and older and men age 18 years and older may eat:
 - 1 total serving per week of Common Carp, or
 - 2 total servings per week of black bass species, or
 - 7 total servings per week of sunfish species
- For additional fish species found in Alondra Park Lake and not included in this advisory, OEHHA recommends following the [statewide advisory for eating fish from California's lakes and reservoirs without site-specific advice](#).

What else can I do to protect my health and the health of my family?

- Eat a variety of fish.
- Eat smaller (younger) fish of legal size.
- Eat only the skinless fillet or meat portion of fish.
- Thoroughly cook the fish, allow the juice to drain away.
- Learn about OEHHA's guidelines for eating sport fish in California:
 - Visit <https://oehha.ca.gov/fish/advisories>, or call OEHHA at (916) 324-7572 or (510) 622-3170
 - Check the Freshwater or Ocean Sport Fishing Regulations booklets from the California Department of Fish and Wildlife, or visit <https://www.wildlife.ca.gov/Regulations>

A GUIDE TO EATING FISH from ALONDRA PARK LAKE
(LOS ANGELES COUNTY)

Serving Size		California Office of Environmental Health Hazard Assessment		Eat only the skinniest fillet		Eat only the meat	
For Adults	For Children	www.oehha.ca.gov/fish	oehha.fish@oehha.ca.gov	(818) 324-7572	Some drainbows are higher in the skin, fat, and gut.		
<p>Women (18-49 Years)</p> <p>5 TOTAL SERVINGS A WEEK</p> <p>OR</p> <p>1 TOTAL SERVING A WEEK</p> <p>OR</p> <p>1 TOTAL SERVING A WEEK</p>	<p>Women (50+ Years)</p> <p>7 TOTAL SERVINGS A WEEK</p> <p>OR</p> <p>2 TOTAL SERVINGS A WEEK</p> <p>OR</p> <p>1 TOTAL SERVING A WEEK</p>	<p>Eat the Good Fish Eating fish that are low in chemicals may provide health benefits to children and adults.</p> <p></p>	<p>Avoid the Bad Fish Eating fish with higher levels of chemicals like mercury or PCBs may cause health problems in children and adults.</p> <p></p>	<p>Choose the Right Fish Drainbows may be more harmful to unborn babies and children.</p> <p></p>	<p>Sunfish Species</p>	<p>Black Bass Species</p> <p> High in omega-3s</p>	<p>Common Carp</p>

Serving Size
A serving of fish is about the size and thickness of your hand. Give children smaller servings.

For Adults

For Children

California Office of Environmental Health Hazard Assessment
www.oehha.ca.gov/fish
oehha.fish@oehha.ca.gov
(818) 324-7572

Eat only the skinniest fillet

Eat only the meat

Some drainbows are higher in the skin, fat, and gut.



Mujeres
(18-49 Años)

Niños
(1-17 Años)



Mujeres
(50+ Años)

Hombres
(18+ Años)

GUIA PARA CONSUMIR PESCADO

del LAGO ALONDRA PARK

(CONDADO DE LOS ANGELES)

Coma el Pescado Bueno
Comer pescado que es bajo en sustancias químicas puede proporcionar beneficios para la salud de los niños y adultos.



Evite el Pescado Malo
Comer pescado con altos niveles de sustancias químicas como mercurio o PCBs puede causar problemas de salud en niños y adultos.



Elija el Pescado Mejor
Las sustancias químicas pueden ser más perjudiciales para los bebés por nacer y niños.



Especies de Pez Luna
(Sunfish Species)



Especies de Róbalo Negro
(Black Bass Species)

♥ alto en omega-3s



Carpa
(Carp)

Una Porción
Una porción de pescado es aproximadamente del tamaño y grosor de su mano. De a los niños porciones más pequeñas.

Para Adultos 

Para Niños 

Oficina de Evaluación de Riesgos para la Salud Ambiental de California
web: www.oehha.ca.gov/fish
email: fish@oehha.ca.gov
phone: (916) 324-7572
Spanish

Coma sólo el filete sin piel 

Coma sólo la carne 

Algunas sustancias químicas son más altas en la piel, la grasa y las tripas.

10.14 CIMP Adaptive Management: This section shall be utilized to describe adaptive management of the CIMP and include:

- Identification of changes to any aspect of the CIMP (including changes to the non-stormwater outfall-based screening and monitoring program if changes are determined to be necessary during the one re-assessment required during the Permit term; indicate when the re-assessment was done or will be done);
- Reason(s) for the change(s);
- Timeframe for implementing the changes; and
- Identification of those changes that require Regional Board Executive Officer approval

The City of Gardena is exclusive of the Dominguez Channel Watershed Management Area Group CIMP.

10.15 Information to Meet Additional Reporting Requirements Related to Monitoring: Results for monitoring of any pollutant more frequently than required by the Permit using approved test procedures, or another method specified in the Permit shall be reported here.
This section will also include:

- a. A full laboratory report for each chronic toxicity test prepared according to the appropriate test methods manual chapter on Report Preparation, including:
 - i. The chronic toxicity test results for the t-test, reported as "Pass" or "Fail", and the "Percent Effect".
 - ii. The dates of sample collection and initiation of each toxicity test.
 - iii. Test species with biological endpoint values for each concentration tested.
 - iv. Reference toxicant test results.
 - v. Water quality measurements for each toxicity test (e.g., pH, dissolved oxygen, temperature, conductivity, hardness, salinity, chlorine, ammonia).
 - vi. TRE/TIE testing results.
 - vii. A printout of CETIS (Comprehensive Environmental Toxicity Information System) program results.
- b. A map of all sample location(s), including separate TIE sample locations (if any).

As noted previously, all monitoring data and associated meta data used to prepare the Annual Report must be summarized in an Excel spreadsheet and sorted by watershed, subwatershed and monitoring station/outfall identifier linked to the subwatershed map. The data summary must include the date, sample type, (flow-weighted composite, grab, field measurement), sample start and stop times, parameters, analytical method, value, and units.

Wet-weather aquatic toxicity samples collected on November 7, 2020 and December 28, 2020, and a dry-weather sample collected on July 29, 2020, passed both survival and reproduction bioassays.



August 17, 2020

Mr. Gerald Greene
CWE Corporation
1561 E. Orangethorpe Ave, # 240
Fullerton, CA 92831

Dear Mr. Greene:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013*. " Results were as follows:*

CLIENT:	CWE Corporation
SAMPLE I.D.:	20200729Gardena-RI
DATE RECEIVED:	29 July - 20
ABC LAB. NO.:	CWE0720.273

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

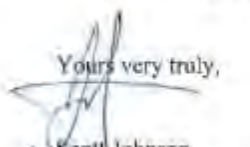
IWC = 100.00%

TST RESULT

SURVIVAL = PASS % EFFECT = 0.00 %

REPRODUCTION = PASS % EFFECT = -21.38 %

Yours very truly,



Scott Johnson
Laboratory Director

*Note: The chronic survival TST analysis is not available for ceriodaphnia dubia.

29 north olive st. ventura, ca 93001 (805) 643 5621 aquabio.org

CETIS Summary Report

Report Date: 17 Aug 20 15:04 (p 1 of 1)
Test Code/ID: CWE0720.273 / 03-2284-1823

Ceriodaphnia 7-d Survival and Reproduction Test			Aquatic Bioassay & Consulting Labs, Inc.		
Batch ID: 03-0558-5216	Test Type: Reproduction-Survival (7d)	Analyst:			
Start Date: 29 Jul 20 13:50	Protocol: EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water		
Ending Date: 05 Aug 20 13:00	Species: Ceriodaphnia dubia	Brine:	Not Applicable		
Test Length: Ed 23h	Taxon: Branchiopoda	Source:	Aquatic Bioassay, CO	Age:	
Sample ID: 03-0097-9997	Code: CWE0720.273	Project:	18296 Gardena MS4 Monitoring		
Sample Date: 29 Jul 20 07:55	Material: Sample Water	Source:	Bioassay Report		
Receipt Date: 29 Jul 20 13:04	CAS (PC):	Station:	20200729Gardena R1		
Sample Age: 6h (3.5°C)	Client: CWE Corporation				

Single Comparison Summary

Analysis ID	Endpoint	Comparison Method	P-Value	Comparison Result	S
10-7425-7903	7d Survival Rate	Fisher Exact Test	1.0000	100% passed 7d survival rate	1
17-5785-9213	Reproduction	ST-Weibull Test	<1.0E-05	100% passed reproduction	1

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	Lower	Upper	Overlap	Decision
10-7425-7903	7d Survival Rate	Control Resp	1	0.8	>=	Yes	Passes Criteria
17-5785-9213	Reproduction	Control Resp	23.15	15	>=	Yes	Passes Criteria

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	20	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	—	0.00%
100		20	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	—	0.00%

Reproduction Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	20	23.15	20.23	26.07	10	35	1.394	8.235	26.93%	0.00%
100		20	29.1	25.28	30.92	16	37	1.349	8.034	21.47%	41.38%

7d Survival Rate Detail

MD5: 020CAA91955E835F676F06C3E12DEE1B

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Reproduction Detail

MD5: 248980C2DF67EA795D17D1C63B825F85

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	19	25	24	25	14	22	24	16	22	10
		20	26	33	30	24	35	27	27	19	15
100		21	29	31	34	37	33	35	34	32	32
		18	27	24	27	25	31	26	16	21	18

7d Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

000-189-126-0

CETIS® v1.0.7.7

Analyst:  DA: 

CETIS Analytical Report

Report Date: 17 Aug-20 15:04 (p 1 of 2)
Test Code/ID: CWE0729.273 / 03-2284-1623

Ceriodaphnia 7-d Survival and Reproduction Test				Aquatic Bioassay & Consulting Labs, Inc.			
Analysis ID:	17-5785-9213	Endpoint:	Reproduction	CETIS Version:	CETISv1.8.7		
Analyzed:	17 Aug-20 14:57	Analysis:	Parametric Bioequivalence-Two Sample	Status Level:	1		
Edit Date:	17 Aug-20 14:57	MD5 Hash:	A96A1208488F37DF897FE5C68B51DA1	Editor ID:	000-189-128-0		
Batch ID:	09-0858-5216	Test Type:	Reproduction-Survival (7d)	Analyst:			
Start Date:	29 Jul-20 13:50	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water		
Ending Date:	28 Aug-20 13:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable		
Test Length:	86.23h	Taxon:	Branchiopoda	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	00-0097-8897	Code:	CWE0729.273	Project:	18298 Gardena MS4 Monitoring		
Sample Date:	29 Jul-20 07:55	Material:	Sample Water	Source:	Bioassay Report		
Receipt Date:	29 Jul-20 13:04	CAS (PC):		Station:	20200729Gardena-R1		
Sample Age:	8h (3.5 °C)	Client:	GWE Corporation				

Data Transform	All Hyp	T-Stat	Comparison Result
Untransformed	C's < T	0.75	100% passed reproduction endpoint

TST-Weich's t-Test							
Control	vs	Conc-%	Test Stat	Critical	DF	P-Type	P-Value
Negative Control		100*	6.28	0.852	35	GDF	<1.0E-05
Decision(α:20%)							
Non-Significant Effect							

Test Acceptability Criteria					
TAC Limits					
Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	23.15	15	>>	Yes	Passes Criteria

ANOVA Table						
Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	245.025	245.025	1	6.91	0.0148	Significant Effect
Error	1420.35	57.6408	38			
Total	1665.37		39			

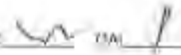
ANOVA Assumptions Tests						
Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)	
Variance	Levene Equality of Variance Test	0.01864	7.353	0.8882	Equal Variances	
	Mod Levene Equality of Variance Test	0.0146	7.353	0.9045	Equal Variances	
	Variance Ratio F Test	1.068	3.432	0.8882	Equal Variances	
Distribution	Anderson-Darling A2 Test	0.4108	3.876	0.3470	Normal Distribution	
	D'Agostino Kurtosis Test	0.4304	2.576	0.8688	Normal Distribution	
	D'Agostino Skewness Test	0.9784	2.576	0.3279	Normal Distribution	
	D'Agostino-Pearson K2 Omnibus Test	1.143	9.21	0.5646	Normal Distribution	
	Kolmogorov-Smirnov D Test	0.106	0.1817	0.2948	Normal Distribution	
	Shapiro-Wilk W Normality Test	0.9752	0.9236	0.5154	Normal Distribution	

Reproduction Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	20	23.15	20.28	26.07	24	10	35	1.394	26.93%	0.00%
100		20	28.1	25.28	30.92	30	16	37	1.349	21.47%	-21.38%

Reproduction Detail											
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	19	25	24	26	14	23	24	19	22	10
		20	28	33	30	24	35	27	27	19	15
100		31	29	31	34	37	33	38	34	32	32
		18	27	24	27	25	31	26	16	21	19

000-189-138-0

CETIS v1.8.7.2

Analyst:  (3A)

CETIS Analytical Report

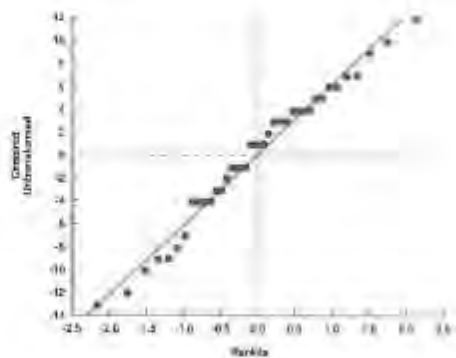
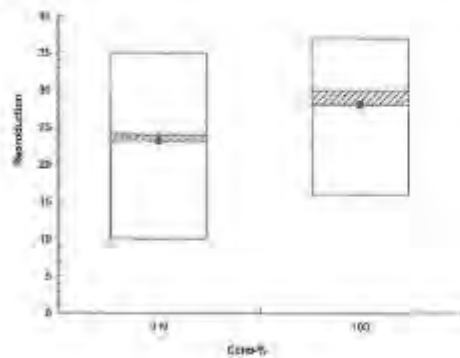
Report Date: 17 Aug-20 15:04 (p 2 of 2)
Test Code/ID: CWE0720.273 / 03-2284-1623

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	17-5785-8213	Endpoint:	Reproduction	CETIS Version:	CETISv1.9.7
Analyzed:	17 Aug-20 14:57	Analysis:	Parametric Bioequivalence-Two Sample	Status Level:	1
Edit Date:	17 Aug-20 14:51	MD5 Hash:	A89A120B466F37DF697FE5C69B511DA1	Editor ID:	000-189-126-0

Graphics



000-189-126-0

CETISSM v1.9.7.7Analyst: 

CETIS Analytical Report

Report Date: 17 Aug-20 15:04 (p.1 of 2)
Test Code/ID: CV/E0/20.273 / 03-2289-1623

Ceriodaphnia 7-d Survival and Reproduction Test			Aquatic Bioassay & Consulting Labs, Inc.		
Analysis ID:	10-7425-7903	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.5.7
Analyzed:	17 Aug-20 14:58	Analysis:	Single 2x2 Contingency Table	Status Level:	1
Edit Date:	17 Aug-20 14:51	MD5 Hash:	020CAA31965E896F67BF06C3E12CEE1B	Editor ID:	000-169-126-0
Batch ID:	09-0656-5216	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	29 Jul-20 13:50	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	05 Aug-20 13:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Test Length:	6d 23h	Taxon:	Branchiopoda	Source:	Aquatic Biosystems, CO
				Age:	
Sample ID:	00-0087-9987	Code:	CWE0720.273	Project:	18298 Gardena MS4 Monitoring
Sample Date:	29 Jul-20 07:55	Material:	Sample Water	Source:	Bioassay Report
Receipt Date:	29 Jul-20 13:04	CAS (°C):		Station:	20200729Gardena-R1
Sample Age:	6h (3.5 °C)	Client:	CWE Corporation		

Data Transform	Alt Hyp	Comparison Result
Untransformed	C > T	100% passed 7d survival rate endpoint

Fisher Exact Test

Control	vs	Conc-%	Test Stat	P-Type	P-Value	Decision(α=5%)
Negative Control		100	1.0000	Exact	1.0000	Non-Significant Effect

Test Acceptability Criteria

		TAC Limits			
Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	1	0.5	>>	Yes	Passes Criteria

7d Survival Rate Frequencies

Conc-%	Code	NR	R	NR + R	Prop NR	Prop R	%Effect
0	N	20	0	20	1.0000	0.0000	0.00%
100		20	0	20	1.0000	0.0000	0.00%

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	20	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
100		20	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%

7d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

7d Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
		5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
100		5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
		5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5

000-169-126-0

CETIS v1.5.7 at 8/17/20

Analyst:



CETIS Analytical Report

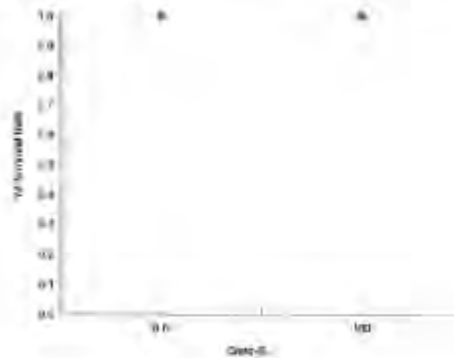
Report Date: 17 Aug-20 15:04 (p 2 of 2)
Test Code/ID: CWE0720.273 / 03-2284-1823

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	16-7425-7602	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.9.7
Analyzed:	17 Aug-20 14:56	Analysis:	Single 2x2 Contingency Table	Status Level:	1
Edit Date:	17 Aug-20 14:51	MD5 Hash:	020CAA81665E896F676F06C3E12DEE1B	Editor ID:	000-189-126-0

Graphics



000-189-126-0

CETIS™ v1.9.7.7

Analyst:  QA

CETIS Measurement Report

Report Date: 17 Mar 21 15:01 (p. 1 of 4)

Test Code/ID: CWE0720.273 / 03-2204-1623

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 09-0858-5216	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 29 Jul-20 13:50	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 05 Aug-20 13:00	Species: Ceriodaphnia dubia	Brins: Not Applicable
Test Length: 6d (23h)	Taxon: Branchiopoda	Source: Aquatic Bioassays, CO
		Age:
Sample ID: 00-0067-8997	Code: CWE0720.273	Project: 18295 Gardena MS4 Monitoring
Sample Date: 29 Jul-20 07:55	Material: Sample Water	Source: Bioassay Report
Receipt Date: 29 Jul-20 13:04	CAS (PC):	Station: 20200729Gardena-R1
Sample Age: 6h (5.8 °C)	Client: CWE Corporation	

Alkalinity (CaCO₃)-mg/L

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	82	82	82	82	82	0	0	0.00%	0
100		8	131	131	131	131	131	0	0	0.00%	0
Overall		16	96.5	77.5	115.5	82	131	8.908	35.63	38.62%	0 (0%)

Conductivity-µmhos

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	336.5	334.5	338.5	333	340	0.2815	2.252	0.67%	0
100		8	1803	1769	1817	1785	1820	2.111	16.86	0.94%	0
Overall		16	1070	886.3	1473	333	1820	189.9	757.1	70.78%	0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	7.45	7.277	7.623	7.1	7.7	0.02589	0.207	2.78%	0
100		8	7.325	7.178	7.472	7.1	7.6	0.02101	0.1752	2.39%	0
Overall		16	7.387	7.233	7.492	7.1	7.7	0.04905	0.1932	2.66%	0 (0%)

Hardness (CaCO₃)-mg/L

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	100	100	100	100	100	0	0	0.00%	0
100		8	378	378	378	378	378	0	0	0.00%	0
Overall		16	239	162.5	315.5	100	378	35.89	143.8	60.07%	0 (0%)

pH-Units

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	7.813	7.816	8.007	7.7	8.1	0.01407	0.1126	1.42%	0
100		8	7.813	7.743	7.882	7.7	7.9	0.01045	0.08348	1.07%	0
Overall		16	7.863	7.805	7.92	7.7	8.1	0.01272	0.1088	1.38%	0 (0%)

Temperature-°C

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	24	24	24	24	24	0	0	0.00%	0
100		8	24.05	23.97	24.13	24	24.2	0.01157	0.09256	0.38%	0
Overall		16	24.03	23.99	24.06	24	24.2	0.01708	0.0831	0.26%	0 (0%)

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CETIS™ v1.0.7.7

Analyst:  QA: 

CETIS Measurement Report

Report Date: 17 Mar-21 15:01 (p 2 of 4)

Test Code/ID: CWE0720.273 / 03-2284-1623

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO₃)-mg/L

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		62					
100				131					
0	N	2		62					
100				131					
0	N	3		62					
100				131					
0	N	4		62					
100				131					
0	N	5		62					
100				131					
0	N	6		62					
100				131					
0	N	7		62					
100				131					
0	N	8		62					
100				131					

Conductivity-µmhos

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		333					
100				1809					
0	N	2		339					
100				1795					
0	N	3		340					
100				1810					
0	N	4		336					
100				1810					
0	N	5		337					
100				1811					
0	N	6		338					
100				1820					
0	N	7		335					
100				1802					
0	N	8		335					
100				1785					

000-128-128-0

CETIS™ v1.0.7.7

Analyst:


 QA: 

CETIS Measurement Report

Report Date: 17 Mar-21 15:01 (p.3 of 4)

Test Code/ID: CWE0720.273 / 03-2284-1623

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Dissolved Oxygen-mg/L

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		7.2					
100				7.6					
0	N	2		7.5					
100				7.2					
0	N	3		7.8					
100				7.4					
0	N	4		7.6					
100				7.2					
0	N	5		7.6					
100				7.5					
0	N	6		7.7					
100				7.4					
0	N	7		7.4					
100				7.2					
0	N	8		7.1					
100				7.1					

Hardness (CaCO3)-mg/L

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		100					
100				378					
0	N	2		100					
100				378					
0	N	3		100					
100				378					
0	N	4		100					
100				378					
0	N	5		100					
100				378					
0	N	6		100					
100				378					
0	N	7		100					
100				378					
0	N	8		100					
100				378					

000-189-126-0

CETIS™ v1.0.7.7

Analyst:



CETIS Measurement Report

Report Date: 17 Mar-21 15:01 (p 4 of 4)

Test Code/ID: CWE0720.273 / 03-2284-1623

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

pH-Units

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		7.8					
100				7.7					
0	N	2		8.1					
100				7.7					
0	N	3		8					
100				7.9					
0	N	4		7.9					
100				7.8					
0	N	5		7.9					
100				7.8					
0	N	6		7.9					
100				7.8					
0	N	7		7.9					
100				7.9					
0	N	8		7.7					
100				7.9					

Temperature-°C

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		24					
100				24					
0	N	2		24					
100				24.2					
0	N	3		24					
100				24.2					
0	N	4		24					
100				24					
0	N	5		24					
100				24					
0	N	6		24					
100				24					
0	N	7		24					
100				24					
0	N	8		24					
100				24					

000-185-126-0

CETIS™ v1.9.7.7

Analyst: 

[illegible]
$$1.07 = 2.01$$

**CHRONIC CERIODAPHNIA SURVIVAL AND REPRODUCTION BIOASSAY**

DATE: 16 July - 2020

STANDARD TOXICANT: Copper Chloride

ENDPOINT: SURVIVAL

NOEC = 10.00 ug/l

EC25 = 13.33 ug/l

EC50 = 18.89 ug/l


ENDPOINT: REPRODUCTION

NOEC = 10.00 ug/l

IC25 = 12.23 ug/l

IC50 = 18.15 ug/l

Yours very truly,


Scott Johnson
Laboratory Director

29 north olive st. ventura, ca 93001 (805) 643 5621 aquabio.org

CETIS Summary Report

Report Date: 07 Aug 20 09:57 (p. 1 of 2)
Test Code/ID: CER071320 / 09-3084-0594

Ceriodaphnia 7-d Survival and Reproduction Test Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 07-1879-5423	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 16 Jul-20 15:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 23 Jul-20 14:30	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 6d 23h	Taxon: Branchiopoda	Source: Aquatic Biosystems, LLC Age:
Sample ID: 09-2952-8255	Code: CER071620	Project: REF TOX
Sample Date: 16 Jul-20 15:00	Material: Copper chloride	Source: Reference Toxicant
Receipt Date:	CAS (PG):	Station: REF TOX
Sample Age: n/a	Client: ABC Labs	

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	✓	NOEL	LOEL	TOEL	TU	PMSD	S
06-6247-6495	7d Survival Rate	Fisher Exact/Bonferroni-Holm Test	✓	10	30	17.32		n/a	1
01-3051-0748	Reproduction	Dunnett Multiple Comparison Test	✓	10	30	17.32		25.5%	1

Point Estimate Summary

Analysis ID	Endpoint	Point Estimate Method	✓	Level	µg/L	95% LCL	95% UCL	TU	S
05-2230-8570	7d Survival Rate	Linear Interpolation (ICPIN)	✓	EC5	7.5	5.833	11		1
				EC10	13	8.667	12		
				EC15	11.11	7.5	13		
				EC20	12.22	8.333	14		
				EC25	13.33	9.167	15		
				EC40	16.67	12.66	16		
04-5814-5852	Reproduction	Linear Interpolation (ICPIN)	✓	IC5	2.196	0.0929	10.84		1
				IC10	4.444	1.792	11.64		
				IC15	8.308	2.888	12.94		
				IC20	11.04	4.291	13.85		
				IC25	12.23	5	14.95		
				IC40	15.78	11	17.98		
			✓	IC50	18.50	15.71	20		

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
05-2230-8570	7d Survival Rate	Control Resp	1	0.0	>>	Yes	Passes Criteria
06-6247-6495	7d Survival Rate	Control Resp	1	0.0	>>	Yes	Passes Criteria
01-3051-0748	Reproduction	Control Resp	20.6	15	>>	Yes	Passes Criteria
04-5814-5852	Reproduction	Control Resp	20.5	15	>>	Yes	Passes Criteria
01-3051-0748	Reproduction	PMSD	0.285	0.12	0.47	Yes	Passes Criteria

7d Survival Rate Summary

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
3		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
5		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
10		10	0.9000	0.6738	1.0000	0.0000	1.0000	0.1000	0.3162	35.14%	10.00%
30		10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		100.00%
50		10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		100.00%

Reproduction Summary

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	10	20.5	18.47	22.53	15	23	0.8975	2.838	13.85%	0.00%
3		10	18.1	16.37	21.63	14	27	1.208	3.814	19.97%	6.63%
5		10	18.2	16.29	23.11	9	28	2.189	8.861	37.70%	11.22%
10		10	17.3	12.22	22.38	0	24	2.246	7.103	41.08%	15.61%
30		10	0	0	0	0	0	0	0		100.00%
50		10	0	0	0	0	0	0	0		100.00%

005-189-126-0

CETIS™ v1.9.5.5

Analyst:  PAS

CETIS Summary Report

Report Date: 07 Aug 20 09:57 (p 2 of 2)
Test Code/ID: CER071620 / 02-2084-0594

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
3		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10		0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
50		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Reproduction Detail

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	22	17	22	19	23	22	18	23	23	15
3		17	27	21	18	23	14	18	19	18	15
5		22	18	9	11	28	28	22	19	12	13
10		0	12	16	21	23	19	15	23	24	19
20		0	0	0	0	0	0	0	0	0	0
50		0	0	0	0	0	0	0	0	0	0

7d Survival Rate Binomials

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
3		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
10		0/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
20		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
50		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1

CER071620

CETIS™ V1.0.0.0

Analyst: 

CETIS Analytical Report

Report Date: 07 Aug-20 09:57 (p 1 of 2)
Test Code/ID: CER07*020 / 02-3004-0504

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 01-3051-0748	Endpoint: Reproduction	CETIS Version: CETISv1.0.5
Analyzed: 07 Aug-20 09:56	Analysis: Parametric-Control vs. Treatment(s)	Status Level: 1
Batch ID: 07-1878-5423	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 16 Jul-20 15:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 23 Jul-20 14:30	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 8d 23h	Taxon: Branchiopoda	Source: Aquatic Biosystems CO Age:
Sample ID: 09-2852-8265	Code: CER071620	Project: REF TOX
Sample Date: 10 Jul-20 15:00	Material: Copper chloride	Source: Reference Toxicant
Receipt Date:	CAS (PC):	Station: REF TOX
Sample Age: n/a	Client: ABC Labs	

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	TU	PMSC
Untransformed	C > T	10	30	17.32		25.50%

Dunnnett Multiple Comparison Test

Control	vs:	Conc-µg/L	Test Stat	Critical	MSD	DF	P-Type	P-Value	Decision(α:5%)
Negative Control	3		0.5713	2.133	5.227	18	GDF	0.5110	Non-Significant Effect
	5		0.9365	2.133	5.227	18	GDF	0.3511	Non-Significant Effect
	10		1.008	2.133	5.227	18	GDF	0.2168	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	20.5	15	>>	Yes	Passes Criteria
PMSC	0.250	0.13	0.47	Yes	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	55.875	18.625	3	0.6202	0.6055	Non-Significant Effect
Error	1091.1	30.0306	36			
Total	1146.97		39			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Bartlett Equality of Variance Test	9.227	11.34	0.0264	Equal Variances
	Levene Equality of Variance Test	2.461	4.377	0.0752	Equal Variances
	Mod Levene Equality of Variance Test	2.014	4.377	0.1293	Equal Variances
Distribution	Anderson-Darling A2 Normality Test	0.3805	3.878	0.4070	Normal Distribution
	D'Agostino Kurtosis Test	1.983	2.578	0.0467	Normal Distribution
	D'Agostino Skewness Test	1.907	2.578	0.0505	Normal Distribution
	D'Agostino-Pearson K2 Omnibus Test	7.582	9.21	0.0225	Normal Distribution
	Kolmogorov-Smirnov D Test	0.08765	0.1617	0.6944	Normal Distribution
	Shapiro-Wilk W Normality Test	0.9606	0.9236	0.1783	Normal Distribution

Reproduction Summary

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	10	20.5	18.47	22.53	22	15	29	0.8975	13.85%	0.00%
3		10	19.1	16.87	21.83	18.5	14	27	1.205	19.87%	8.83%
5		10	18.2	13.29	23.11	18.5	9	28	2.168	37.70%	11.22%
10		10	17.3	12.22	22.35	18	0	24	2.248	41.06%	19.61%
30		10	0	0	0	0	0	0	0		100.00%
50		10	0	0	0	0	0	0	0		100.00%

000-185-126-0

CETIS™ v1.0.5.0

Analyst: 

CETIS Analytical ReportReport Date: 07 Aug-20 09:57 (p 2 of 2)
Test Code/ID: CER071620 / 02-3084-0594

Ceriodaphnia 7-d Survival and Reproduction Test

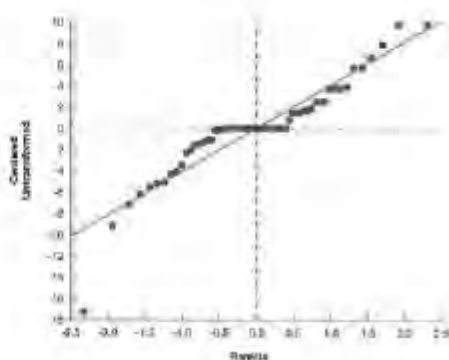
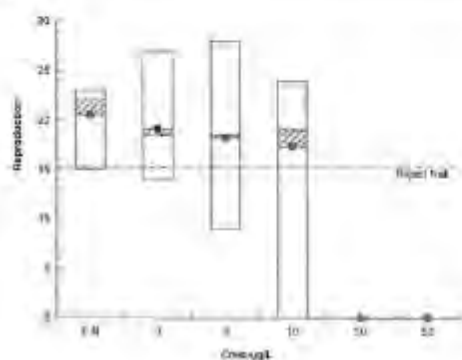
Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 01-3051-0718
Analyzed: 07 Aug-20 9:58
Endpoint: Reproduction
Analysis: Parametric-Control vs TreatmentsCETIS Version: CETISv1.9.5
Status Level: 1

Reproduction Detail

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	22	17	22	19	23	22	19	23	23	15
3		17	27	21	18	23	14	18	19	19	15
5		22	18	0	11	28	28	22	19	12	13
10		0	12	16	21	23	19	15	23	24	19
30		0	0	0	0	0	0	0	0	0	0
50		0	0	0	0	0	0	0	0	0	0

Graphics



000-189-125-0

CETIS™ v4.9.5.5

Analyst:  QA: 

CETIS Analytical Report

Report Date: 07 Aug 2020 09:57 (p 1 of 4)
Test Code/ID: CER071620 / 02-3086-0599

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 05-2238-8570	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.0.5
Analyzed: 07 Aug 2020 9:56	Analysis: Linear Interpolation (ICPIN)	Status Level: I
Batch ID: 07-1875-8423	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 16 Jul 20 15:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 23 Jul 20 14:30	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 6d 23h	Taxon: Branchiopoda	Source: Aquatic Biosystems, CO Age:
Sample ID: 09-2052-8255	Code: CER071620	Project: REF TOX
Sample Date: 16 Jul 20 15:00	Material: Copper chloride	Source: Reference Toxicant
Receipt Date:	CAS (PC):	Station: REF TOX
Sample Age: N/A	Client: ABC Labs	

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	289	Yes	Two-Point Interpolation

Test Acceptability Criteria

TAC Limits

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	1	0.8	>=	Yes	Passes Criteria

Point Estimates

Level	µg/L	95% LCL	95% UCL
EC5	7.5	5.833	11
EC10	10	8.637	12
EC15	11.11	7.6	13
EC20	12.22	8.333	14
EC25	13.33	9.167	15
EC40	16.67	12.86	18
EC50	16.69	15.71	20

7d Survival Rate Summary

Calculated Variate(A/B)

Isotonic Variate

Conc-µg/L	Code	Count	Mean	Min	Max	Std Dev	CV%	%Effect	A/B	Mean	%Effect
0	N	10	1.0000	1.0000	1.0000	0.0000	0.00%	0.0%	10/10	1	0.0%
3		10	1.0000	1.0000	1.0000	0.0000	0.00%	0.0%	10/10	1	0.0%
5		10	1.0000	1.0000	1.0000	0.0000	0.00%	0.0%	10/10	1	0.0%
10		10	0.9000	0.9000	1.0000	0.3162	35.14%	10.0%	9/10	0.9	10.0%
30		10	0.0000	0.0000	0.0000	0.0000		100.0%	0/10	0	100.0%
50		10	0.0000	0.0000	0.0000	0.0000		100.0%	0/10	0	100.0%

7d Survival Rate Detail

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
3		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10		0.9000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
50		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7d Survival Rate Binomials

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
3		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
10		0/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
30		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
50		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1

000-189-100-07

CETIS™ v1.0.5.5

Analyst:  QM

CETIS Analytical ReportReport Date: 07 Aug-20 09:57 (p 2 of 4)
Test Code/ID: CER071620 / 02-3084-0394

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 05-2236-8570

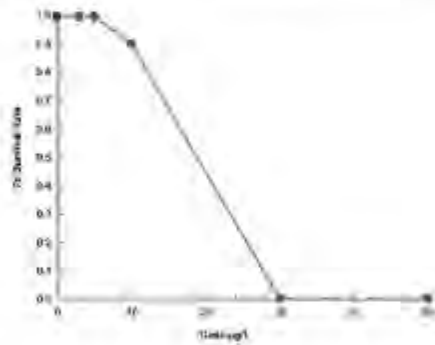
Endpoint: 7d Survival Rate

CETIS Version: CETISv1.0.5

Analyzed: 07 Aug-20 9:56

Analysis: Linear Interpolation (ICPIN)

Status Level: 1

Graphics

000-189-126-0

CETIS™ v1.0.5

Analyst:  QW

CETIS Analytical Report

Report Date: 07 Aug 20 09:57 (p 3 of 4)
Test Code/ID: CER071620 / 02-3084-0594

Ceriodaphnia 7-d Survival and Reproduction Test Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 04-5914-6952	Endpoint: Reproduction	CETIS Version: CETIS v1.9.5
Analyzed: 07 Aug 20 9:56	Analysis: Linear Interpolation (ICPIN)	Status Level: 1
Batch ID: 07-1878-5423	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 18 Jul 20 15:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 23 Jul 20 14:30	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 6d 23h	Taxon: Branchiopoda	Source: Aquatic Bioassays, CO Age:
Sample ID: 08-2952-8235	Code: CER071620	Project: REF TOX
Sample Date: 18 Jul 20 15:00	Material: Copper chloride	Source: Reference Toxicant
Receipt Date:	CAS (PC):	Station: REF TOX
Sample Age: n/a	Client: ASD Labs	

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	479234	200	Yes	Two-Point Interpolation

Test Acceptability Criteria		TAC Limits			
Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp.	20.5	15	>>	Yes	Passes Criteria

Point Estimates

Level	µg/L	95% LCL	95% UCL
IC5	2.196	0.8999	10.94
IC10	4.444	1.792	11.94
IC15	9.306	2.568	12.94
IC20	11.04	4.291	13.95
IC25	12.23	5	14.95
IC40	15.78	11	17.96
IC50	18.15	14.17	19.97

Reproduction Summary			Calculated Variate						Isotonic Variate	
Conc-µg/L	Code	Count	Mean	Min	Max	Std Dev	CV%	%Effect	Mean	%Effect
0	N	10	20.5	15	23	2.838	12.85%	0.0%	20.5	0.0%
3		10	19.1	14	27	3.814	19.97%	6.83%	19.1	6.83%
5		10	18.2	9	28	6.861	37.70%	11.22%	18.2	11.22%
10		10	17.3	0	24	7.103	41.06%	15.61%	17.3	15.61%
30		10	0	0	0	0		100.0%	0	100.0%
50		10	0	0	0	0		100.0%	0	100.0%

Reproduction Detail											
Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	22	17	22	19	23	22	19	23	23	15
3		17	27	21	18	23	14	18	19	19	15
5		22	18	9	11	28	28	22	19	12	13
10		0	13	15	21	23	15	15	25	24	19
30		0	0	0	0	0	0	0	0	0	0
50		0	0	0	0	0	0	0	0	0	0

08/07/20 12:58:17

CETIS v1.9.5.5


 Analyst: 

CETIS Analytical Report

Report Date: 07 Aug 2019 09:57 (p.4 of 4)

Test Code/ID: CER071620102-3004-05R4

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 04-5814-5552

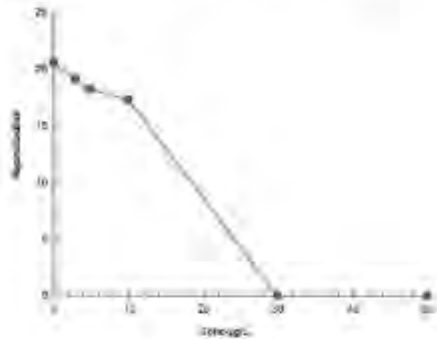
Endpoint: Reproduction

CETIS Version: CETISv1.9.5

Analyzed: 07 Aug 2019 09:58

Analysis: Linear Interpolation (ICPIN)

Status Level: 1

Graphics

000-169-126-0

CETIS™ v1.9.5.6

Analyst: QA:

CETIS Analytical Report

Report Date: 07 Aug-20 09:57 (p 1 of 2)
Test Code/ID: CER071620 / 02-3084-0594

Ceriodaphnia 7-d Survival and Reproduction Test				Aquatic Bioassay & Consulting Labs, Inc.			
Analysis ID: 06-8247-8498	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.9.5		Status Level: 1			
Analyzed: 07 Aug-20 9:56	Analysis: STP 2XK Contingency Tables						
Batch ID: 07-1878-6433	Test Type: Reproduction-Survival (7d)	Analyst:		Diluent: Laboratory Water			
Start Date: 16 Jul-20 15:00	Protocol: EPA/821/R-02-013 (2002)						
Ending Date: 23 Jul-20 14:30	Species: Ceriodaphnia dubia	Brinet: Not Applicable		Source: Aquatic Biosystems, CO			
Test Length: 6d 23h	Taxon: Branchiopoda						
Sample ID: 09-2052-8255	Code: CER071620	Project: REF TOX		Source: Reference Toxicant			
Sample Date: 16 Jul-20 15:00	Material: Copper chloride						
Receipt Date:	CAS (PC):	Station: REF TOX					
Sample Age: n/a	Client: ABC Labs						
Data Transform		Alt Hyp		NOEL	LOEL	TOEL	TU
Untransformed		C > T		10	30	17.32	

Fisher Exact/Bonferroni-Holm Test

Control	vs	Group	Test Stat	P-Type	P-Value	Decision(α:5%)
Negative Control		3	1.0000	Exact	1.0000	Non-Significant Effect
		5	1.0000	Exact	1.0000	Non-Significant Effect
		10	0.0000	Exact	1.0000	Non-Significant Effect
		30*	0.0000	Exact	2.7E-05	Significant Effect
		50*	0.0000	Exact	2.7E-05	Significant Effect

Test Acceptability Criteria

		TAC Limits		Overlap	Decision
Attribute	Test Stat	Lower	Upper		
Control Resp	1	0.8	0.9	Yes	Passes Criteria

Data Summary

Conc-µg/L	Code	NR	R	NR + R	Prop NR	Prop R	%Effect
0	N	10	0	10	1	0	0.0%
3		10	0	10	1	0	0.0%
5		10	0	10	1	0	0.0%
10		9	1	10	0.9	0.1	10.0%
30		0	10	10	0	1	100.0%
50		0	10	10	0	1	100.0%

7d Survival Rate Detail

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
3		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10		0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
50		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7d Survival Rate Binomials

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
3		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
10		0/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
30		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
50		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1

000-169-126-2

CETIS™ v1.9.5.5

Analyst:  020

CETIS Analytical Report

Report Date: 07 Aug 2019 08:57 (p 2 of 2)

Test Code/ID: CER071620 / 02-3084-0594

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 06-8247-8498

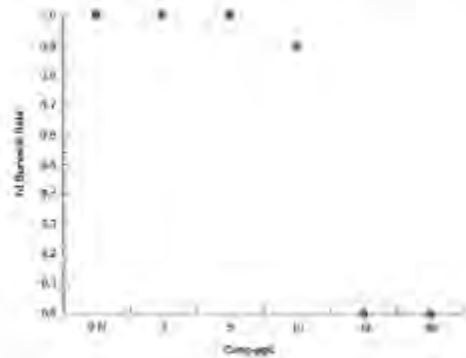
Endpoint: 7d Survival Rate

CETIS Version: CETISv1.9.5

Analyzed: 07 Aug 2019 08:56

Analysis: STP 2xK Contingency Tables

Status Level: 1

Graphics

060-189-126-0

CETIS™ v1.9.5.0

Analyst: [Signature] QAC: [Signature]

CETIS Measurement Report

Report Date: 07 Aug 20 09:57 (p 1 of 8)

Test Code/ID: CER171620 / 02-30M-0594

Ceriodaphnia 7-d Survival and Reproduction Test										Aqualab Bioassay & Consulting Labs, Inc.	
Batch ID: 07-1679-5423	Test Type: Reproduction-Survival (7d)	Analyst:									
Start Date: 16 Jul-20 15:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water									
Ending Date: 23 Jul-20 16:30	Species: Ceriodaphnia dubia	Brew: No Application									
Test Length: 6d 23h	Taxon: Branchiopoda	Source: Aquatic Biosystems, CO	Age:								
Sample ID: 09-2952-5255	Code: CER071620	Project: REF TOX									
Sample Date: 16 Jul-20 15:00	Material: Copper chloride	Source: Reference Toxicant									
Receipt Date:	CAS (PC):	Station: REF TOX									
Sample Age: n/a	Client: AEC Labs										
Alkalinity (CaCO ₃)-mg/L											
Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	63.25	62.60	63.84	65	65	0.25	0.7071	1.12%	0
50		4	62	62	62	62	62	0	0	0.0%	0
Overall		12	62.63	62.3	63.95	62	65	0.241	0.8348	1.33%	0 (0%)
Conductivity-µmhos											
Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	337.8	335.5	340	332	340	0.959	2.712	0.8%	0
3		8	344.9	338.3	351.5	333	354	2.709	7.818	2.3%	0
5		8	338.3	334.8	342.2	332	346	1.558	4.408	1.3%	0
10		8	321.4	327.4	335.3	326	337	1.879	4.740	1.42%	0
30		4	324.5	320.7	328.3	322	337	1.19	2.28	0.71%	0
50		4	320.2	325.3	335.2	326	333	1.548	3.036	0.94%	0
Overall		40	337	334.8	339.2	326	354	1.077	5.811	2.02%	0 (0%)
Dissolved Oxygen-mg/L											
Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	7.425	7.253	7.597	7.1	7.6	0.07268	0.2053	2.77%	0
3		8	7.35	7.093	7.607	7	7.9	0.1086	0.3071	4.18%	0
5		8	7.363	7.188	7.537	7.1	7.8	0.08224	0.2326	3.16%	0
10		8	7.338	7.183	7.492	7	7.6	0.06529	0.1847	2.52%	0
30		4	7.375	7.136	7.614	7.2	7.6	0.075	0.15	2.03%	0
50		4	7.425	7.124	7.726	7.3	7.7	0.08465	0.1893	2.55%	0
Overall		40	7.375	7.308	7.444	7	7.9	0.03392	0.2145	2.81%	0 (0%)
Hardness (CaCO ₃)-mg/L											
Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	85.62	84.15	87.1	85	100	0.625	1.768	1.85%	0
50		4	109	109	109	109	109	0	0	0.0%	0
Overall		12	100.1	95.8	104.4	95	109	1.944	8.735	6.73%	0 (0%)
pH-Units											
Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	7.987	7.738	8.239	7.6	8.2	0.06391	0.1908	2.29%	0
3		8	7.862	7.745	7.95	7.7	8	0.04979	0.1408	1.79%	0
5		8	7.775	7.515	8.035	7.2	8.1	0.1058	0.3105	3.99%	0
10		8	7.713	7.525	7.899	7.3	7.9	0.07892	0.2232	2.89%	0
30		4	7.5	7.209	7.791	7.3	7.7	0.09128	0.1826	2.43%	0
50		4	7.475	7.203	7.747	7.3	7.7	0.08538	0.1708	2.29%	0
Overall		40	7.748	7.688	7.824	7.2	8.2	0.03922	0.248	3.20%	0 (0%)

000-129-126.0

CETIS™ v1.9 8.5

Analyst: [Signature] QA: [Signature]

CETIS Measurement Report

Report Date: 07 Aug 20 09:57 (p 2 of 8)
Test Code/ID: CER071620 / 02-3084-0564

Ceriodaphnia 7-d Survival and Reproduction Test							Aquatic Bioassay & Consulting Labs, Inc.				
Temperatura-°C											
Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	24	24	24	24	24	0	0	0.0%	0
3		8	24	24	24	24	24	0	0	0.0%	0
5		8	24	24	24	24	24	0	0	0.0%	0
10		8	24	24	24	24	24	0	0	0.0%	0
30		4	24	24	24	24	24	0	0	0.0%	0
50		4	24	24	24	24	24	0	0	0.0%	0
Overall		40	24	24	24	24	24	0	0	0.00%	0 (0%)

000-099-020-0

CETIS™ v1.9.5.5

Analyst:  QA: 

CETIS Measurement Report

Report Date: 07 Aug-20 09:57 (p 3 of 8)

Test Code/ID: CER071820 / 02-3084-0594

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO ₃)-mg/L									
Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		85					
50				82					
0	N	2		83					
50				82					
0	N	3		83					
50				82					
0	N	4		83					
50				82					
0	N	5		83					
0	N	6		83					
0	N	7		83					
0	N	8		83					

005-489-126-0

CETIS™ v1.9.5.5

Analyst:  QA: 

CETIS Measurement Report

Report Date: 07 Aug 20 00:57 (p 4 of 8)
Test Code/ID: CER071620 / 012-3084-0594

Ceriodaphnia 7-d Survival and Reproduction Test						Aquatic Bioassay & Consulting Labs, Inc.			
Conductivity-µmhos									
Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		339					
3				354					
5				336					
10				335					
30				332					
50				332					
0	N	2		339					
3				350					
5				339					
10				337					
30				333					
50				333					
0	N	3		332					
3				350					
5				337					
10				337					
30				336					
50				328					
0	N	4		337					
3				350					
5				332					
10				328					
30				337					
50				330					
0	N	5		340					
3				333					
5				338					
10				326					
0	N	6		339					
3				348					
5				343					
10				333					
0	N	7		336					
3				336					
5				346					
10				327					
0	N	8		340					
3				338					
5				340					
10				330					

000-189-126-0

CETIS™ v1.0.5.5

Analyst

QA

CETIS Measurement Report

Report Date: 07 Aug 20 09:57 (p. 5 of 8)
Test Code/ID: CER071620 / 02-3094-0594

Ceriodaphnia 7-d Survival and Reproduction Test					Aquatic Bioassay & Consulting Labs, Inc.				
Dissolved Oxygen-mg/L									
Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		7.2					
3				7					
5				7.3					
10				7.3					
30				7.3					
50				7.3					
0	N	2		7.4					
3				7.3					
5				7.2					
10				7.4					
30				7.3					
50				7.3					
0	N	3		7.6					
3				7.2					
5				7.2					
10				7.3					
30				7.3					
50				7.4					
0	N	4		7.6					
3				7.4					
5				7.4					
10				7.5					
30				7.6					
50				7.7					
0	N	5		7.3					
3				7.2					
5				7.3					
10				7.2					
0	N	6		7.6					
3				7.9					
5				7.6					
10				7.4					
0	N	7		7.6					
3				7.7					
5				7.6					
10				7.8					
0	N	8		7.1					
3				7.1					
5				7.1					
10				7					

000-168-126-0

CETIS™ v1.9.5.5

Analyst:  QA: 

CETIS Measurement Report

Report Date: 07 Aug-20 09:57 (p 6 of 8)
Test Code/ID: CER071620 / 02-3084-0584

Ceriodaphnia 7-d Survival and Reproduction Test									
Aquatic Bioassay & Consulting Labs, Inc.									
Hardness (CaCO ₃)-mg/L									
Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		100					
50				100					
0	N	2		95					
50				100					
0	N	3		95					
50				100					
0	N	4		95					
50				100					
0	N	5		95					
0	N	6		95					
0	N	7		95					
0	N	8		95					

000-189-126-0

CETIS™ v1.0.5.5

Analyst: CA

CETIS Measurement Report

Report Date: 07 Aug-20 09:37 (p 7 of 8)
Test Code/ID: CER071620 / 02-3084-0594

Ceriodaphnia 7-d Survival and Reproduction Test							Aquatic Bioassay & Consulting Labs, Inc.		
pH-Units									
Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		7.7					
3				7.7					
5				7.5					
10				7.3					
30				7.3					
50				7.3					
0	N	2		7.9					
3				7.7					
5				7.6					
10				7.5					
30				7.4					
50				7.4					
0	N	3		7.9					
3				8					
5				8					
10				7.8					
30				7.7					
50				7.7					
0	N	4		8					
3				7.7					
5				7.2					
10				7.6					
30				7.6					
50				7.5					
0	N	5		7.8					
3				8					
5				8					
10				7.9					
0	N	6		8.2					
3				8					
5				8.1					
10				7.9					
0	N	7		7.9					
3				7.9					
5				7.9					
10				7.8					
0	N	8		7.9					
3				7.9					
5				7.9					
10				7.9					

000-129-128-0

CETIS™ v1.9.5.5

Analyst: ECM, QM

CETIS Measurement Report

Report Date: 07 Aug 20 09:57 (p 8 of 8)
Test Code/ID: CER071620 / 02-3064-0584

Ceriodaphnia 7-d Survival and Reproduction Test					Aquatic Bioassay & Consulting Labs, Inc.				
Temperature: °C									
Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		24					
3				24					
5				24					
10				24					
30				24					
50				24					
0	N	2		24					
3				24					
5				24					
10				24					
30				24					
50				24					
0	N	3		24					
3				24					
5				24					
10				24					
30				24					
50				24					
0	N	4		24					
3				24					
5				24					
10				24					
30				24					
50				24					
0	N	5		24					
3				24					
5				24					
10				24					
0	N	6		24					
3				24					
5				24					
10				24					
0	N	7		24					
3				24					
5				24					
10				24					
0	N	8		24					
3				24					
5				24					
10				24					

COC-189-126-0

CETIS™ v1.9.5.5

Analyst  QA 



December 3, 2020

Mr. Gerald Greene
CWE Corporation
1561 E. Orangethorpe Ave. # 240
Fullerton, CA 92831

Dear Mr. Greene:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013.* Results were as follows:*

CLIENT:	CWE Corporation
SAMPLE I.D.:	20201107Gardena-R1
DATE RECEIVED:	9 Nov - 20
ABC LAB. NO.:	CWE1120.092

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

IWC = 100.00%

TST RESULT

SURVIVAL = PASS % EFFECT = 0.00 %

REPRODUCTION = PASS % EFFECT = -2.49 %

Yours very truly,


Scott Johnson
Laboratory Director

*Note: The chronic survival TST analysis is not available for ceriodaphnia dubia.

29 north olive st. ventura, ca 93001 (805) 643 5621 aquabio.org

CETIS Summary Report

Report Date: 01 Dec-20 12:45 [p 1 of 1]
Test Code/ID: CWE1120.092 / 00-7338-7868

Ceriodaphnia 7d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 03-7332-6003	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 10 Nov-20 09:54	Protocol: EPA/621/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 17 Nov-20 11:52	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 7d (2h)	Taxont: Branchiopoda	Source: Aquatic Biosystems, CO Age:
Sample ID: 08-3686-8441	Code: CWE1120.092	Project: Gardena WQ Monitoring/20374
Sample Date: 07 Nov-20 13:00	Material: Sample Water	Source: Bioassay Report
Receipt Date: 09 Nov-20 10:27	CAS (PC):	Station: 20201107Gardena-R1
Sample Age: 69h (5.8 %D)	Client: CWE Corporation	

Single Comparison Summary

Analysis ID	Endpoint	Comparison Method	P-Value	Comparison Result	S
16-6170-6305	7d Survival Rate	Fisher Exact Test	1.0000	100% passed 7d survival rate	1
08-2587-0421	Reproduction	TST-Welch's t Test	<1.0E-05	100% passed reproduction	1

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
16-6170-6305	7d Survival Rate	Control Resp	1	0.8	>>	Yes	Passes Criteria
08-2587-0421	Reproduction	Control Resp	22.1	15	>>	Yes	Passes Criteria

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	20	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	—	0.00%
100		20	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	—	0.00%

Reproduction Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	20	22.1	19.93	24.27	15	29	1.038	4.844	21.01%	0.00%
100		20	22.65	21.55	23.77	17	27	0.9345	2.39	10.59%	-2.48%

7d Survival Rate Detail

MD5: 020CAA81985E886F678F06C3E12CEE1E

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Reproduction Detail

MD5: 715DB0821F84259D050D8B868452FFA4

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	29	19	17	22	24	16	28	21	21	25
		28	27	23	24	18	16	15	22	17	26
100		22	27	24	22	22	20	24	22	20	25
		22	23	22	23	27	27	17	22	21	21

7d Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

001489425-0

CETIS® V1.0.7.7

Analyst:

Linda PMS

CETIS Analytical Report

Report Date: 01 Dec 20 12:45 (p.1 of 2)
Test Code/ID: CWE1120.092 / 00-7338-7868

Ceriodaphnia 7-d Survival and Reproduction Test				Aquatic Bioassay & Consulting Labs, Inc.			
Analysis ID:	08-2587-0421	Endpoint:	Reproduction	CETIS Version:	CETISv1.9.7		
Analyzed:	01 Dec-20 12:44	Analysis:	Parametric Bioequivalence-Two Sample	Status Level:	1		
Edit Date:	01 Dec-20 12:42	MD5 Hash:	09AABA32CA2CFD973CF1C23519C67DF	Editor ID:	000-189-126-0		
Batch ID:	03-7332-0003	Test Type:	Reproduction-Survival (7d)	Analyst:			
Start Date:	10 Nov-20 08:54	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water		
Ending Date:	17 Nov-20 11:52	Species:	Ceriodaphnia dubia	Brine:	Not Applicable		
Test Length:	7d 3h	Taxon:	Branchiopoda	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	08-3568-8441	Code:	CWE1120.092	Project:	Gardena WQ Monitoring/20374		
Sample Date:	07 Nov-20 13:00	Material:	Sample Water	Source:	Bios assay Report		
Receipt Date:	09 Nov-20 10:27	CAS (PC):		Station:	20201107Gardena-R1		
Sample Age:	69h (5.3 °C)	Client:	CWE Corporation				

Data Transform	Alt Hyp	TST_b	Comparison Result
Untransformed	C'b < T	0.75	100% passed reproduction endpoint

TST-Watch's t Test

Control	vs	Conc-%	Test Stat	Critical	DF	P-Type	P-Value	Decision(α:20%)
Negative Control		100*	E:431	0.8626	33	1/DF	<1.0E-05	Non-Significant Effect

Test Acceptability Criteria

		TAC Limits			
Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	22.1	15	>>>	Yes	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Squares	DF	F Stat	P-Value	Decision(α:5%)
Between	3.025	3.025	1	0.2218	0.6404	Non-Significant Effect
Error	518.35	10.6409	38			
Total	521.375		39			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Levene Equality of Variance Test	11.55	7.353	0.0016	Unequal Variances
	Med Levene Equality of Variance Test	11.43	7.353	0.0017	Unequal Variances
	Variance Ratio F Test	3.775	5.432	0.0057	Unequal Variances
Distribution	Anderson-Darling A2 Test	0.4903	2.878	0.2348	Normal Distribution
	D'Agostino Kurtosis Test	0.8173	2.578	0.4138	Normal Distribution
	D'Agostino Skewness Test	0.03009	2.578	0.9760	Normal Distribution
	D'Agostino-Pearson K2 Omnibus Test	0.6658	9.21	0.7156	Normal Distribution
	Kolmogorov-Smirnov D Test	0.1004	0.1817	0.3740	Normal Distribution
	Shapiro-Wilk W Normality Test	0.9867	0.8236	0.2819	Normal Distribution

Reproduction Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	20	22.1	19.93	24.27	22	15	29	1.088	21.01%	0.00%
100		20	22.65	21.53	23.77	22	17	27	0.5545	10.85%	-2.49%

Reproduction Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	39	49	17	22	28	16	28	21	21	25
		28	27	23	24	18	16	15	22	17	26
100		22	21	24	22	22	26	24	22	26	25
		22	23	22	25	27	27	17	22	21	21

000-189-126-0

CETISTM v1.0 7.7

Analyst:

QA

CETIS Analytical Report

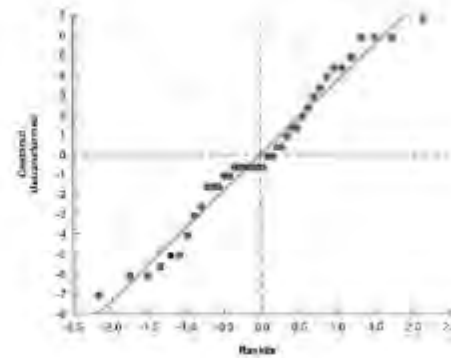
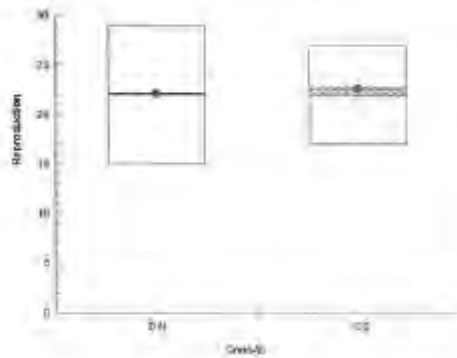
Report Date: 01 Dec 20 12:45 (p 2 of 2)
Test Code/ID: CWE1120.092 / 00-7336-7868

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 08-2587-0421	Endpoint: Reproduction	CETIS Version: CETISv1.9.7
Analyzed: 01 Dec 20 12:44	Analysis: Parametric Dissimilarity Two Sample	Status Level: 1
Edit Date: 01 Dec 20 12:42	MD5 Hash: 00AABAB20A2CFD073CF1C23519D07DF	Editor ID: 000-189-126-0

Graphics



000-189-126-0

CETIS™ v1.9.7.7

Analyst:

QA

CETIS Analytical Report

Report Date: 01 Dec-20 12:55 (p 1 of 2)

Test Code/ID: CWE-120.092 / 00-7338-7668

Ceriodaphnia 7-d Survival and Reproduction Test				Aquatic Bioassay & Consulting Labs, Inc.			
Analysis ID:	18-5170-8305	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.9.7		
Analyzed:	01 Dec-20 12:44	Analysis:	Single 2x2 Contingency Table	Status Level:	0		
Edit Date:	01 Dec-20 12:42	NDS Hash:	020CAAB1965E886F676F06C3E12DEE1E	Editor ID:	003-188-126-0		
Batch ID:	03-7332-6003	Test Type:	Reproduction-Survival (7d)	Analyst:			
Start Date:	10 Nov-20 09:54	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water		
Ending Date:	17 Nov-20 17:52	Species:	Ceriodaphnia dubia	Brine:	Not Applicable		
Test Length:	7d 2h	Taxon:	Branchiopoda	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	08-3086-6441	Code:	CWE-120.092	Project:	Gardena WQ Monitoring/2037A		
Sample Date:	07 Nov-20 13:00	Material:	Sample Water	Source:	Bioassay Report		
Receipt Date:	08 Nov-20 16:27	CAS (PC):		Station:	20201107Gardena-R1		
Sample Age:	68h (5.3 °C)	Client:	CWE Corporation				

Data Transform	Alt Hyp	Comparison Result
Untransformed	C > T	100% passed 7d survival rate endpoint

Fisher Exact Test

Control	vs	Conc-%	Test Stat	P-Type	P-Value	Decision(a=5%)
Negative Control		100	1.0000	Exact	1.0000	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits		Overlap	Decision
		Lower	Upper		
Control Resp	1	0.8	>>	Yes	Passes Criteria

7d Survival Rate Frequencies

Conc-%	Code	NR	R	NR + R	Prop NR	Prop R	%Effect
0	N	20	0	20	1.0000	0.0000	0.00%
100		20	0	20	1.0000	0.0000	0.00%

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	20	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
100		20	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%

7d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

7d Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

003-188-126-0

CETIS™ v1.9.7.7

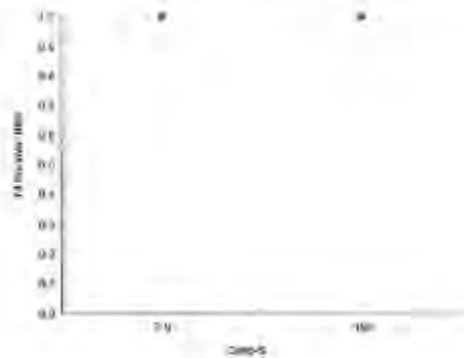
Analyst: 

CETIS Analytical ReportReport Date: 01 Dec-20 12:45 (p 2 of 2)
Test Code/ID: QWE1120-092 / 00-733B-7868

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	15-6170-8306	Endpoint:	7d Survival Rate	CETIS Version:	CETIS v1.3.7
Analyzed:	01 Dec-20 12:44	Analysis:	Single 2x2 Contingency Table	Status Level:	1
Edit Date:	01 Dec-20 12:42	MD5 Hash:	020CAA81965E806F070F06C3E12DEE1B	Editor ID:	000-189-126-0

Graphics

000-189-126-0

CETIS v1.3.7

Analysis:  QA

CETIS Measurement Report

Report Date: 01 Dec 20 12:45 (p 1 of 4)
Test Code/ID: CWE1120.092 / CO-7335-7868

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 03-7332-8003	Test Type: Reproduction-Survival (Td)	Analyst:
Start Date: 10 Nov-20 09:54	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 17 Nov-20 11:52	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 7d 2h	Taxa: Branchiopoda	Source: Aquatic Biosystems, CO
Sample ID: 08-3666-6441	Code: CWE1120.092	Age:
Sample Date: 07 Nov-20 13:00	Material: Sample Water	Project: Gardena WQ Monitoring/20074
Receipt Date: 09 Nov-20 10:27	CAS (PC):	Source: Bioassay Report
Sample Age: 09h (5.9 °C)	Client: CWE Corporation	Station: 20201107Gardena-R1

Alkalinity (CaCO₃)-mg/L

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	84.25	83.38	85.12	63	85	0.1284	1.035	1.81%	0
100		8	44	44	44	44	44	0	0	0.00%	0
Overall		16	64.12	63.54	65.71	44	85	2.62	10.48	19.36%	0 (0%)

Conductivity-µmhos

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	343.9	335	352.8	330	362	1.33	10.64	3.08%	0
100		8	389.9	381.3	398.5	371	399	1.283	10.28	2.83%	0
Overall		16	366.9	353.1	380.6	330	399	6.453	25.81	7.04%	0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	7.675	7.487	7.883	7.3	7.9	0.03118	0.2495	3.25%	0
100		8	8.962	8.441	9.484	8	9.7	0.0779	0.6232	8.95%	0
Overall		16	7.319	7.005	7.632	6	7.9	0.147	0.5979	8.03%	0 (0%)

Hardness (CaCO₃)-mg/L

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	89.75	83.69	95.81	81	95	0.8057	7.246	8.07%	0
100		8	90	90	90	90	90	0	0	0.00%	0
Overall		16	89.88	87.24	92.51	81	95	1.258	4.051	5.51%	0 (0%)

pH-Units

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	7.863	7.715	8.01	7.5	8	0.0221	0.1768	2.25%	0
100		8	7.662	7.574	7.751	7.5	7.8	0.01328	0.1081	1.38%	0
Overall		16	7.762	7.689	7.856	7.5	8	0.04368	0.1746	2.25%	0 (0%)


Temperature-°C

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	24	24	24	24	24	0	0	0.00%	0
100		8	24	24	24	24	24	0	0	0.00%	0
Overall		16	24	24	24	24	24	0	0	0.00%	0 (0%)

000-189-126-0

CETIS 79 03.0.0.0

Analyst:



CETIS Measurement Report

Report Date: 01 Dec 20 12:45 (p 2 of 4)

Test Code/ID: CWE1120.092 / 00-7338-7868

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO₃)-mg/L

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		65					
100				44					
0	N	2		65					
100				44					
0	N	3		65					
100				44					
0	N	4		65					
100				44					
0	N	5		65					
100				44					
0	N	6		63					
100				44					
0	N	7		63					
100				44					
0	N	8		63					
100				44					

Conductivity-µmhos

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		358					
100				394					
0	N	2		362					
100				398					
0	N	3		340					
100				389					
0	N	4		340					
100				371					
0	N	5		340					
100				360					
0	N	6		342					
100				385					
0	N	7		330					
100				393					
0	N	8		338					
100				395					

000-189-126-0

CETIS™ v1.9.7.7

Analyst



CETIS Measurement Report

Report Date: 01 Dec-20 12:46 (p.3 of 4)

Test Code/ID: CWE1120.082 / 00-7336-7868

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Dissolved Oxygen-mg/L

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		7.9					
100				7.7					
0	N	2		7.8					
100				7.6					
0	N	3		7.3					
100				6					
0	N	4		7.6					
100				6.9					
0	N	5		7.6					
100				7.1					
0	N	6		7.9					
100				7.2					
0	N	7		7.8					
100				7.1					
0	N	8		7.3					
100				6.1					

Hardness (CaCO₃)-mg/L

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		95					
100				90					
0	N	2		95					
100				90					
0	N	3		95					
100				90					
0	N	4		95					
100				90					
0	N	5		95					
100				90					
0	N	6		81					
100				80					
0	N	7		81					
100				90					
0	N	8		81					
100				90					

000-189-128-0

CETIS™ v1.8.7.7

Analyst: QA: 

CETIS Measurement Report

Report Date: 01 Dec 20 12:45 (p 4 of 4)

Test Code/ID: CWE1120.092 / 00-7395-7888

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

pH-Units

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		7.9					
100				7.6					
0	N	2		8					
100				7.5					
0	N	3		7.9					
100				7.6					
0	N	4		8					
100				7.6					
0	N	5		8					
100				7.8					
0	N	6		7.9					
100				7.8					
0	N	7		7.7					
100				7.7					
0	N	8		7.5					
100				7.7					

Temperature-°C

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		24					
100				24					
0	N	2		24					
100				24					
0	N	3		24					
100				24					
0	N	4		24					
100				24					
0	N	5		24					
100				24					
0	N	6		24					
100				24					
0	N	7		24					
100				24					
0	N	8		24					
100				24					

000-189-128-0

CETIS™ v1.0.7.7

Analyst:  QA: 

[illegible]

Aquatic Bioassay and Consulting Laboratories
29 N. Olive Street, Ventura, CA 93001 Phone: (805) 643-5621 Fax: (805) 643-2980

**CHRONIC CERIODAPHNIA SURVIVAL AND REPRODUCTION BIOASSAY**

DATE: 3 November - 2020

STANDARD TOXICANT: Copper Chloride

ENDPOINT: SURVIVAL

NOEC = 10.00 ug/l

EC25 = 15.00 ug/l

EC50 = 20.00 ug/l

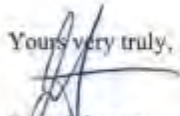
ENDPOINT: REPRODUCTION

NOEC = 10.00 ug/l

IC25 = 15.00 ug/l

IC50 = 20.00 ug/l

Yours very truly,


✓ Scott Johnson
Laboratory Director

29 north olive st. ventura, ca 93001 (805) 643 5621 aquabio.org

CETIS Summary Report

Report Date: 19 Nov-20 15:43 (p 1 of 2)
Test Code/ID: CER110320 / 20-9888-0833

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 14-7368-3184	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 03 Nov-20 14:18	Protocol: EPA/621/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 10 Nov-20 14:03	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 7d	Taxon: Branchiopoda	Source: Aquatic Biosystems, OC
Sample ID: 01-2258-2717	Code: CER110320	Project: REF TOX
Sample Date: 03 Nov-20 14:18	Material: Copper chloride	Source: Reference Toxicant
Receipt Date:	CAS (PC):	Station: REF TOX
Sample Age: —	Client: ABC Labs	

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	✓	NOEL	LOEL	TOEL	PMSD	S
02-4748-6707	7d Survival Rate	Fisher Exact/Bonferroni-Holm Test	✓	10	30	17.32	—	1
11-7861-8872	Reproduction	Dunnett Multiple Comparison Test	✓	10	30	17.32	22.4%	1

Point Estimate Summary

Analysis ID	Endpoint	Point Estimate Method	✓	Level	µg/L	95% LCL	95% UCL	S
02-1804-4584	7d Survival Rate	Linear Interpolation (ICPIN)	✓	EC10	12	12	12	1
			✓	EC15	13	13	13	
			✓	EC20	14	14	14	
			✓	EC25	15	15	15	
			✓	EC40	18	18	18	
			✓	EC50	20	20	20	
10-9355-9220	Reproduction	Linear Interpolation (ICPIN)	✓	IC10	12	11.57	12	1
			✓	IC15	13	12.89	13	
			✓	IC20	14	13.17	14	
			✓	IC25	15	14.72	15	
			✓	IC40	18	17.78	18	
			✓	IC50	20	19.82	20	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits			Overlap	Decision
				Lower	Upper			
02-1804-4584	7d Survival Rate	Control Resp	1	0.6	>>		Yes	Passes Criteria
02-4748-6707	7d Survival Rate	Control Resp	1	0.8	>>		Yes	Passes Criteria
10-9355-9220	Reproduction	Control Resp	23.3	15	>>		Yes	Passes Criteria
11-7861-8872	Reproduction	Control Resp	23.3	15	>>		Yes	Passes Criteria
11-7861-8872	Reproduction	PMSC	0.2239	0.13	0.47		Yes	Passes Criteria

7d Survival Rate Summary

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	—	0.00%
3		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	—	0.00%
5		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	—	0.00%
10		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	—	0.00%
30		10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	—	100.00%
50		10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	—	100.00%

Reproduction Summary

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	10	23.3	20.38	26.22	13	28	1.291	4.384	17.53%	0.00%
3		10	20.9	17.47	26.33	12	31	1.859	6.19	28.27%	6.01%
5		10	27.2	22.79	31.61	18	34	1.845	8.161	22.65%	18.74%
10		10	28.7	25.01	32.39	18	35	1.633	5.168	18.00%	23.18%
30		10	0	0	0	0	0	0	0	—	100.00%
50		10	0	0	0	0	0	0	0	—	100.00%

000-189-120-0

CETIS™ v1.9.7.7

Analyst:

C. J. R. R. S.

CETIS Summary Report

Report Date: 19 Nov-20 15:43 (p 2 of 2)
Test CodeID: CER110320 / 20-5688-6633

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

MD5: 08EB4C06A8ABF4A8412589E40515EB70

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
3		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
50		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Reproduction Detail

MD5: 3FAFA10AA804EA4ECC7074E0FE0C44FF

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	25	23	23	25	26	26	21	25	13	24
3		16	26	29	12	17	20	31	22	21	22
5		33	18	32	31	21	24	32	28	34	18
10		29	18	32	22	22	35	29	20	29	33
30		0	0	0	0	0	0	0	0	0	0
50		0	0	0	0	0	0	0	0	0	0

7d Survival Rate Binomials

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
3		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
10		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
30		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
50		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1

CETIS Analytical Report

Report Date: 18 Nov-20 15:42 (p.1 of 2)
Test Code/ID: CER110320 / 20-9688-8833

Ceriodaphnia T-d Survival and Reproduction Test				Aquatic Bioassay & Consulting Labs, Inc.							
Analysis ID:	11-7891-8872	Endpoint:	Reproduction	CETIS Version:	CETISv1.9.7						
Analyzed:	19 Nov-20 15:42	Analysis:	Parametric-Control vs. Treatments	Status Level:	1						
Edit Date:	19 Nov-20 15:38	MSD Hash:	E61D37AE73FEA9CA85351626824DCF38	Editor ID:	000-189-126-0						
Batch ID:	14-7898-9184	Test Type:	Reproduction-Survival (7d)	Analyst:							
Start Date:	03 Nov-20 14:18	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water						
Ending Date:	10 Nov-20 14:03	Species:	Ceriodaphnia dubia	Brine:	Not Applicable						
Test Length:	7d	Taxon:	Branchiopoda	Source:	Aquatic Biosystems, CO	Age:					
Sample ID:	07-2258-2717	Code:	CER110320	Project:	REF TOX						
Sample Date:	03 Nov-20 14:18	Material:	Cooper chloride	Source:	Reference Toxicant						
Receipt Date:		CAS (PC):		Station:	REF TOX						
Sample Age:	----	Client:	ABC Labs								
Data Transform	All Hyp	NOEL	LOEL	TOEL	TU	MSD	PMSD				
Untransformed	C > T	10	30	17.32	—	5.216	22.38%				
Dunnnett Multiple Comparison Test											
Control	vs	Conc-µg/L	Test Stat	Critical	MSD	DF	P-Type	P-Value	Decision(α:5%)		
Negative Control	3		0.5724	2.133	5.216	18	CDF	0.6105	Non-Significant Effect		
	5		-1.595	2.133	5.216	18	CDF	0.9929	Non-Significant Effect		
	10		-2.208	2.133	5.216	18	CDF	0.9590	Non-Significant Effect		
Test Acceptability Criteria											
Attribute	Test Stat	Lower	Upper	Overlap	Decision						
Control Resp	23.3	15	>>	Yes	Passes Criteria						
PMSD	0.2239	0.13	0.47	Yes	Passes Criteria						
ANOVA Table											
Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)					
Between	307.275	102.425	3	3.425	0.0272	Significant Effect					
Error	1076.7	29.905	36								
Total	1383.97		39								
ANOVA Assumptions Tests											
Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)						
Variance	Bartlett Equality of Variance Test	1.825	11.34	0.8085	Equal Variances						
	Levene Equality of Variance Test	1.405	4.377	0.2570	Equal Variances						
	Mod Levene Equality of Variance Test	1.13	4.377	0.3499	Equal Variances						
Distribution	Anderson-Darling A2 Test	0.7153	3.873	0.0618	Normal Distribution						
	D'Agostino Kurtosis Test	0.6369	2.575	0.5244	Normal Distribution						
	D'Agostino Skewness Test	1.391	2.575	0.1644	Normal Distribution						
	D'Agostino-Pearson K2 Omnibus Test	2.339	9.21	0.3106	Normal Distribution						
	Kolmogorov-Smirnov D Test	0.132	0.1617	0.0768	Normal Distribution						
	Shapiro-Wilk W Normality Test	0.9503	0.9298	0.0775	Normal Distribution						
Reproduction Summary											
Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	10	23.3	20.38	26.22	24.5	13	26	1.291	17.53%	0.00%
3		10	21.5	17.47	26.33	21.5	12	34	1.958	28.27%	8.81%
5		10	27.2	22.79	31.61	28.5	18	34	1.818	22.65%	-16.74%
10		10	28.7	25.01	32.38	29	19	35	1.638	18.60%	-25.18%
30		10	0	0	0	0	0	0	0	—	100.00%
50		10	0	0	0	0	0	0	0	—	100.00%

000-189-126-0

CETIS™ v1.9.7

Am/Wal

DA:

CETIS Analytical Report

Report Date: 19 Nov-20 15:42 (p 2 of 2)
Test Code/ID: CER110320 / 20-468B-6633

Ceriodaphnia 7-d Survival and Reproduction Test

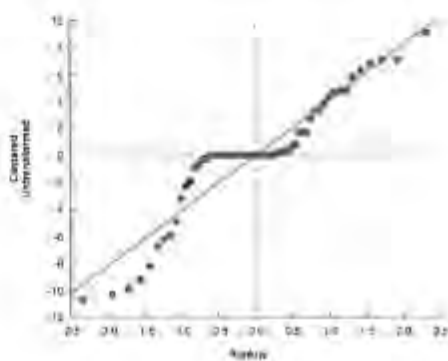
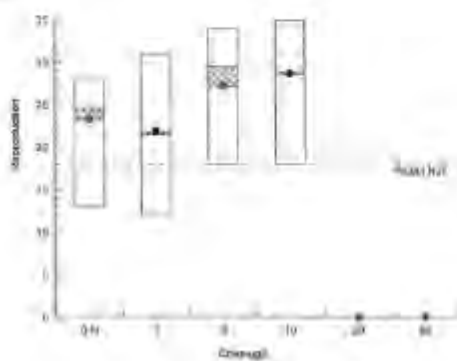
Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 11-7961-6672 Endpoint: Reproduction CETIS Version: CETISv1.8.7
 Analyzed: 19 Nov-20 15:42 Analysis: Parametric-Control vs Treatments Status Level: 1
 Edit Date: 19 Nov-20 15:38 MD5 Hash: E61D37AE73FEA9CA85351626824DCF39 Editor ID: 000-158-126-0

Reproduction Detail

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	25	23	23	25	28	26	21	25	13	24
3		15	29	29	12	17	20	31	22	21	22
5		33	19	32	31	21	24	32	28	34	18
10		29	18	32	32	22	35	29	28	29	33
30		0	0	0	0	0	0	0	0	0	0
50		0	0	0	0	0	0	0	0	0	0

Graphics



000-158-126-0

CETISv1.8.7

Attorney:

CETIS Analytical Report

Report Date: 19 Nov-20 15:43 (p 1 of 4)
Test Code/ID: CER110321 / 20-0655-6633

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 03-1804-4564	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.9.7
Analyzed: 19 Nov-20 15:42	Analyst: Linear Interpolation (ICPIN)	Status Level: 1
Edit Date: 19 Nov-20 15:38	MD5 Hash: 86EB4CD0A8A8F4A8A12509E40515EB7A	Editor ID: 000-169-126-0
Batch ID: 14-7263-9134	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 03 Nov-20 18:16	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 10 Nov-20 14:03	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 7d	Taxon: Branchiopoda	Source: Aquatic Biosystems, CO Age:
Sample ID: 07-2258-2717	Code: CER110320	Project: REF TOX
Sample Date: 03 Nov-20 18:16	Material: Copper chloride	Source: Reference Toxicant
Receipt Date:	CAS (PC):	Station: REF TOX
Sample Age: —	Client: ABC Labs	

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

TAC Limits

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	1	0.8	>=	Yes	Passes Criteria

Point Estimates

Level	µg/L	95% LCL	95% UCL
EC10	12	12	12
EC15	13	13	13
EC20	14	14	14
EC25	15	15	15
EC40	18	18	18
EC50	20	20	20

7d Survival Rate Summary

Conc-µg/L	Code	Count	Calculated Variate(A/B)						Isotonic Variate		
			Mean	Median	Min	Max	CV%	%Effect	A/B	Mean	%Effect
0	N	10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
3		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
5		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
10		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
30		10	0.0000	0.0000	0.0000	0.0000	—	100.00%	0/10	0.0000	100.00%
50		10	0.0000	0.0000	0.0000	0.0000	—	100.00%	0/10	0.0000	100.00%

7d Survival Rate Detail

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
3		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
50		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7d Survival Rate Binomials

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
3		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
10		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
30		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
50		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1

000-169-126-0

CETIS™ v1.9.7.7

Analyst: 

CETIS Analytical Report

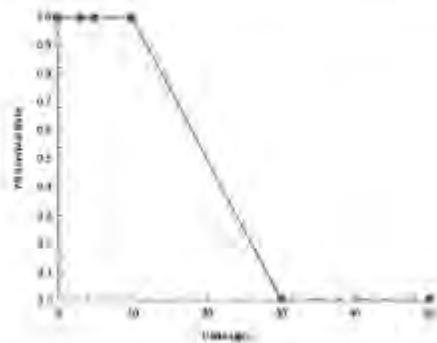
Report Date: 19 Nov-20 15:43 (p 2 of 4)
Test Code/ID: CER110320 / 20-8088-8533

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 02-1804-4564	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.9.7
Analyzed: 19 Nov-20 15:42	Analysis: Linear Interpolation (ICPIN)	Status Level: 1
Edit Date: 19 Nov-20 15:38	MD5 Hash: 80F84CD6A8A8F4A8412560E40515FB74	Editor ID: 000-189-126-0

Graphics



000-189-126-0

CETIS v1.9.7.2

Analyst:  GA- P

CETIS Analytical Report

Report Date: 19 Nov 20 15:43 (p 3 of 4)
Test Code/ID: CER110320 / 20-9869-6633

Ceriodaphnia 7-d Survival and Reproduction Test				Aquatic Bioassay & Consulting Labs, Inc.			
Analysis ID:	10-9366-9220	Endpoint:	Reproduction	CETIS Version:	CETISv1.9.7		
Analyzed:	19 Nov 20 15:42	Analysis:	Linear Interpolation (ICPIN)	Status Level:	I		
Edit Date:	19 Nov 20 15:38	MD5 Hash:	E61D37AE73FEAC8A85351626824DCF39	Editor ID:	000-189-126-0		
Batch ID:	14-7366-9164	Test Type:	Reproduction-Survival (7d)	Analyst:			
Start Date:	03 Nov 20 14:18	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water		
Ending Date:	10 Nov 20 14:03	Species:	Ceriodaphnia dubia	Brine:	Not Applicable		
Test Length:	7d	Taxon:	Branchiopoda	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	07-2256-2717	Code:	CER110320	Project:	REF TOX		
Sample Date:	03 Nov 20 14:18	Material:	Copper chloride	Source:	Reference Toxicant		
Receipt Date:		CAS (PC):		Station:	REF TOX		
Sample Age:	—	Client:	ABC Labs				

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	498063	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

		TAC Limits			
Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	25.3	15	>>	Yes	Passes Criteria

Point Estimates

Level	µg/L	95% LCL	95% UCL
IC10	12	11.67	12
IC15	13	12.69	13
IC20	14	13.7	14
IC25	15	14.72	15
IC40	18	17.78	18
IC50	20	19.82	20

Reproduction Summary			Calculated Variate						Isotonic Variate	
Conc-µg/L	Code	Count	Mean	Median	Min	Max	CV%	%Effect	Mean	%Effect
0	M	10	23.0	24.5	15	28	17.63%	0.00%	25.26	0.00%
3		10	21.8	21.5	12	31	28.27%	6.01%	25.26	0.00%
5		10	27.2	29.5	18	34	22.65%	-18.74%	25.26	0.00%
10		10	28.7	29	16	35	16.00%	-23.18%	25.26	0.00%
30		10	0	0	0	0	—	100.00%	0	100.00%
50		10	0	0	0	0	—	100.00%	0	100.00%

Reproduction Detail

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	M	28	23	23	25	28	26	21	25	13	23
3		18	30	28	12	17	20	31	22	21	22
5		33	10	32	31	21	24	32	28	34	13
10		29	18	32	32	22	35	23	28	28	33
30		0	0	0	0	0	0	0	0	0	0
50		0	0	0	0	0	0	0	0	0	0

000-189-126-0

CETIS (v 1.9.7.7)

Analyst

BA

CETIS Analytical Report

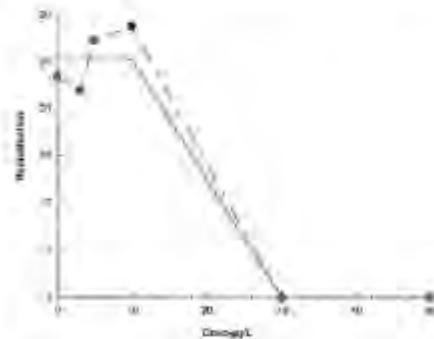
Report Date: 19 Nov-20 15:43 (p 4 of 4)
Test Code/ID: CER110320 / 20-9868-8633

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	10-9355-8220	Endpoint:	Reproduction	CETIS Version:	CETISv1.8.7
Analyzed:	19 Nov-20 15:42	Analysis:	Linear Interpolation (ICPIN)	Status Level:	1
Edit Date:	19 Nov-20 15:38	MD5 Hash:	EE1D37AE73FEA9CA85351626624DCF39	Editor ID:	000-189-128-0

Graphics



000-189-128-0

CETIS™ v1.0.7.7

Analysis:  DA

CETIS Analytical Report

Report Date: 18 Nov 20 15:43 (p 1 of 2)
Test Code/ID: CER110320 / 20-8685-8833

Ceriodaphnia 7-d Survival and Reproduction Test				Aquatic Bioassay & Consulting Labs, Inc.			
Analysis ID:	02-4748-5707	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.9.7		
Analysis:	19 Nov-20 15:42	Analysis:	STP 2xK Contingency Tables	Status Level:	1		
Edit Date:	19 Nov-20 15:38	MDS Hash:	88EB4CD6A8ABF4A8412568F40515EB74	Editor ID:	000-189-128-0		
Batch ID:	14-7360-0154	Test Type:	Reproduction-Survival (7d)	Analyst:			
Start Date:	03 Nov-20 14:18	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water		
Ending Date:	10 Nov-20 14:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable		
Test Length:	7d	Taxon:	Branchiopoda	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	07-2259-2717	Code:	CER110320	Project:	REF TOX		
Sample Date:	03 Nov-20 14:18	Material:	Copper chloride	Source:	Reference Toxicant		
Receipt Date:		CAS (PC):		Station:	REF TOX		
Sample Age:	—	Client:	ABC Labs				

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	TU
Untransformed	C > T	10	30	17.32	—

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-µg/L	Test Stat	P-Type	P-Value	Decision(α:5%)
Negative Control	3	1.0000	Exact	1.0000	Non-Significant Effect	
	5	1.0000	Exact	1.0000	Non-Significant Effect	
	10	1.0000	Exact	1.0000	Non-Significant Effect	
	30*	0.0000	Exact	2.7E-05	Significant Effect	
	50*	0.0000	Exact	2.7E-05	Significant Effect	

Test Acceptability Criteria

		TAC Limits			
Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	1	0.8	>>	Yes	Passes Criteria

7d Survival Rate Frequencies

Conc-µg/L	Code	NR	R	NR + R	Prop NR	Prop R	%Effect
0	N	10	0	10	1.0000	0.0000	0.00%
3		10	0	10	1.0000	0.0000	0.00%
5		10	0	10	1.0000	0.0000	0.00%
10		10	0	10	1.0000	0.0000	0.00%
30		0	10	10	0.0000	1.0000	100.00%
50		0	10	10	0.0000	1.0000	100.00%

7d Survival Rate Summary

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
3		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
5		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
10		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
30		10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	—	100.00%
50		10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	—	100.00%

7d Survival Rate Detail

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
3		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
50		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

000-189-128-0

CETIS™ v1.9.7.7

Analyst:  QA: P

CETIS Analytical Report

Report Date: 19 Nov-20 15:43 (p 2 of 2)
Test Code/ID: CER110320 / 20-6886-6813

Ceriodaphnia 7-d Survival and Reproduction Test

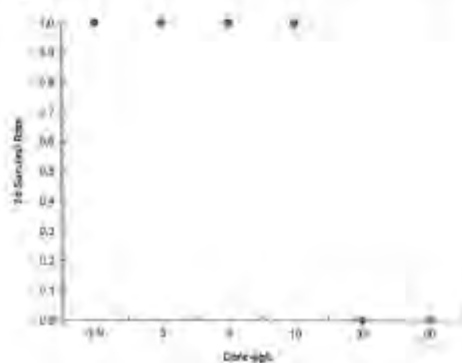
Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 02-4748-5707 Endpoint: 7d Survival Rate CETIS Version: CETISv1.9.7
 Analyzed: 19 Nov-20 15:42 Analysis: STP 2x5 Contingency Tables Status Level: 1
 Edit Date: 19 Nov-20 15:38 MD5 Hash: 86EB4CD8A8ABF4A94125B9E40515E274 Editor ID: 000-189-126-0

7d Survival Rate Binomials

Conc µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
3		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
10		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
30		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
50		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1

Graphics



000-189-126-0

CETIS™ v1.9.7.7

Analyst: W. A. P.

CETIS Measurement Report

Report Date: 19 Nov-20 15:43 (p 1 of 6)
Test Code/ID: CER110320 / 20-0688-8633

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 14-7368-5154	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 03 Nov-20 14:16	Protocol: EPA/821/R-02-D13 (2002)	Diluent: Laboratory Water
Ending Date: 10 Nov-20 14:03	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 7d	Taxon: Branchiopoda	Source: Aquatic Biosystems, CO Age:
Sample ID: 07-2258-2717	Code: CER110320	Project: REF TOX
Sample Date: 03 Nov-20 14:16	Material: Copper chloride	Source: Reference Toxicant
Receipt Date:	CAS (PC):	Station: REF TOX
Sample Age: —	Client: ABC Labs	

Alkalinity (CaCO₃)-mg/L

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	6	65	65	65	65	65	0	0	0.00%	0
50		3	61	61	61	61	61	0	0	0.00%	0
Overall		11	63.91	62.95	65.16	61	65	0.5635	1.885	2.92%	0 (0%)

Conductivity-µmhos

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	6	346.5	340.6	372.4	330	384	2.373	18.95	5.32%	0
2		6	346.4	335.4	357.3	339	370	1.639	13.11	3.79%	0
5		6	344.4	338.2	352	338	360	1.136	9.086	2.64%	0
10		6	343.2	336.7	349.8	337	362	0.9781	7.825	2.28%	0
30		3	337.7	336.2	339.1	337	338	0.1925	0.5774	0.17%	0
50		3	336.7	335.8	341.5	336	340	0.3649	1.165	0.34%	0
Overall		36	346.1	341.9	350.3	336	384	2.078	12.51	3.70%	0 (0%)

Dissolved Oxygen-mg/L

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	6	7.487	7.241	7.734	7.1	8	0.03686	0.2849	3.94%	0
3		6	7.375	7.135	7.615	7	7.8	0.03688	0.2866	3.89%	0
5		6	7.387	7.142	7.663	7.2	7.8	0.02625	0.21	2.84%	0
10		6	7.375	7.222	7.528	7.2	7.7	0.0229	0.1832	2.48%	0
30		3	7.333	6.674	8.002	7	7.6	0.1018	0.3055	4.17%	0
50		3	7.4	6.504	8.296	7	7.7	0.1202	0.3606	4.97%	0
Overall		36	7.4	7.319	7.481	7	8	0.04009	0.2471	3.34%	0 (0%)

Hardness (CaCO₃)-mg/L

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	6	95	95	95	95	95	0	0	0.00%	0
50		3	108	106	106	105	106	0	0	0.00%	0
Overall		11	98	94.55	101.5	95	106	1.549	5.138	5.24%	0 (0%)

pH-Units

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	6	7.775	7.612	8.038	7.1	8.1	0.03030	0.3151	4.05%	0
2		6	7.763	7.584	7.941	7.5	8.1	0.02867	0.2134	2.75%	0
5		6	7.738	7.585	7.91	7.5	8	0.02582	0.2086	2.67%	0
10		6	7.75	7.589	7.911	7.5	8	0.02409	0.1927	2.49%	0
30		3	7.697	7.15	8.104	7.5	7.9	0.06989	0.2082	2.72%	0
50		3	7.733	7.108	8.358	7.5	8	0.08369	0.2517	3.25%	0
Overall		36	7.747	7.675	7.82	7.1	8.1	0.03093	0.2216	2.89%	0 (0%)

000-109-120-0

CETIS™ v1 9.7.7

Analyst:

QA:

CETIS Measurement Report

Report Date: 18 Nov 20 15:43 (p 2 of 6)

Test Code/ID: GER110320 / 20-8888-8633

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Temperature: 20°C

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	0	24	24	24	24	24	0	0	0.00%	0
3		8	24	24	24	24	24	0	0	0.00%	0
5		8	24	24	24	24	24	0	0	0.00%	0
10		8	24	24	24	24	24	0	0	0.00%	0
30		3	24	24	24	24	24	0	0	0.00%	0
50		3	24	24	24	24	24	0	0	0.00%	0
Overall		38	24	24	24	24	24	0	0	0.00%	0 (0%)

COP-889-128-0

CETIS-M 25-0-7.7

Analyst:  GAI P

CETIS Measurement Report

Report Date: 19 Nov 20 15:43 (p 3 of 8)

Test Code/ID: CER110320 / 20-8868-8633

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO₃)-mg/L

Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		65					
50				61					
0	N	2		65					
50				61					
0	N	3		65					
50				61					
0	N	4		65					
0	N	5		65					
0	N	6		65					
0	N	7		65					
0	N	8		65					

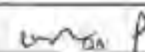
Conductivity-µmhos

Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		337					
3				339					
5				340					
10				342					
30				338					
50				340					
0	N	2		384					
3				340					
5				341					
10				340					
30				337					
50				338					
0	N	3		371					
3				339					
5				338					
10				340					
30				338					
50				338					
0	N	4		375					
3				339					
5				338					
10				338					
0	N	5		326					
3				340					
5				339					
10				337					
0	N	6		337					
3				339					
5				340					
10				339					
0	N	7		360					
3				370					
5				358					
10				353					
0	N	8		352					
3				365					
5				360					
10				358					

080-189-125-0

CETIS™ v1.9.7.7

Analyst:



CETIS Measurement Report

Report Date: 19 Nov-20 15:43 (p 4 of 8)

Test Code/ID: CER110320 / 20-9686-6623

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Dissolved Oxygen-mg/L

Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		7.8					
3				7.2					
5				7.3					
10				7.3					
30				7.4					
50				7.5					
0	N	2		7.2					
3				7.3					
5				7.4					
10				7.5					
30				7.6					
50				7.7					
0	N	3		7.1					
3				7.2					
5				7.2					
10				7.2					
30				7					
50				7					
0	N	4		7.7					
3				7.7					
5				7.5					
10				7.5					
0	N	5		7.3					
3				7.6					
5				7.5					
10				7.4					
0	N	6		7.6					
3				7					
5				7.2					
10				7.2					
0	N	7		8					
3				7.8					
5				7.6					
10				7.7					
0	N	8		7.4					
3				7.2					
5				7.2					
10				7.2					

Hardness (CaCO₃)-mg/L

Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		95					
50				106					
0	N	2		95					
50				106					
0	N	3		95					
50				106					
0	N	4		95					
0	N	5		95					
0	N	6		96					
0	N	7		95					
0	N	8		95					

000-189-126-0

CETIS™ v1.9.7.7

Analyst:  QA: 

CETIS Measurement ReportReport Date: 19 Nov-20 15:43 (p 5 of 8)
Test Code/ID: CER110320 / 20-9688-6633

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

pH-Units

Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		0					
3				7.9					
5				7.9					
10				7.9					
30				7.9					
50				8					
0	N	2		7.7					
3				7.8					
5				7.5					
10				7.5					
30				7.8					
50				7.7					
0	N	3		7.4					
3				7.5					
5				7.5					
10				7.8					
30				7.5					
50				7.5					
0	N	4		7.5					
3				7.5					
5				7.5					
10				7.5					
0	N	5		7.9					
3				7.8					
5				7.8					
10				7.8					
0	N	6		7.9					
3				7.8					
5				7.8					
10				7.8					
0	N	7		8.1					
3				8.1					
5				8					
10				8					
0	N	8		7.8					
3				7.9					
5				7.8					
10				7.9					

000-189-120-0

CETIS™ v1.0.7.7

Analyst:  QA: 

CETIS Measurement Report

Report Date: 19 Nov-20 15:43 (p. 6 of 6)
Test Code/ID: CER110320 / 20-0688-6633

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Temperature: °C

Conc. µg/L	Code	Read	Time	Measure	QA	D/R/%	Inst ID	Analyst	Notes
0	N	1		24					
3				24					
5				24					
10				24					
30				24					
50				24					
0	N	2		24					
3				24					
5				24					
10				24					
30				24					
50				24					
0	N	3		24					
3				24					
5				24					
10				24					
30				24					
50				24					
0	N	4		24					
3				24					
5				24					
10				24					
0	N	5		24					
3				24					
5				24					
10				24					
0	N	6		24					
3				24					
5				24					
10				24					
0	N	7		24					
3				24					
5				24					
10				24					
0	N	8		24					
3				24					
5				24					
10				24					

COC-189-126-0

CETIS™ v1.8.7.7

Analyst:  DA



January 20, 2021

Mr. Gerald Greene
CWE Corporation
1561 E. Orangethorpe Ave. # 240
Fullerton, CA 92831

Dear Mr. Greene:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013*. " Results were as follows:*

CLIENT:	CWE Corporation
SAMPLE I.D.:	20201228Gardena-RJ
DATE RECEIVED:	28 Dec - 20
ABC LAB. NO.:	CWB1220.152

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

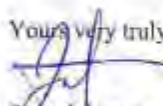
IWC = 100.00%

TST RESULT

SURVIVAL = PASS % EFFECT = 0.00 %

REPRODUCTION = PASS % EFFECT = -28.18 %

Yours very truly,


Scott Johnson
Laboratory Director

*Note: The chronic survival TST analysis is not available for ceriodaphnia dubia.

29 north olive st. ventura, ca 93001 (805) 643 5621 aquabio.org

CETIS Summary Report

Report Date: 15 Jan-21 14:36 (p 1 of 1)
Test Code/ID: CWE1220.152 / 16-0723-8745

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 00-0089-2318	Test Type: Reproduction-Survival (Td)	Analyst:
Start Date: 29 Dec-20 14:33	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 05 Jan-21 14:25	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 7d	Taxon: Branchiopoda	Source: Aquatic Biosystems, CO
Sample ID: 18-5519-2150	Code: CWE1220.152	Project: 20374 Gardena WQ Monitoring
Sample Date: 28 Dec-20 03:40	Material: Sample Water	Source: Bioassay Report
Receipt Date: 28 Dec-20 15:45	CAS (PC):	Station: 20201228GARDENA-R1
Sample Age: 35h (4.5 °C)	Client: CWE Corporation	

Single Comparison Summary

Analysis ID	Endpoint	Comparison Method	P-Value	Comparison Result	S
16-8041-8884	7d Survival Rate	Fisher Exact Test	1.0000	100% passed 7d survival rate	1
17-8625-2858	Reproduction	TST-Weibull Test	<1.0E-05	100% passed reproduction	1

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	Lower	Upper	Overlap	Decision
16-8041-8884	7d Survival Rate	Control Resp	1	0.8	>>	Yes	Passes Criteria
17-8625-2858	Reproduction	Control Resp	20.05	15	>>	Yes	Passes Criteria

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	20	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	—	0.00%
100		20	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	—	0.00%

Reproduction Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	20	20.05	18.36	21.74	14	27	3.8061	3.605	17.98%	0.00%
100		20	25.7	24.44	26.96	19	30	3.6031	2.097	10.49%	>26.16%

7d Survival Rate Detail

MD5: 02DCAA81985E886F676F06C3E12DEE1B

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Reproduction Detail

MD5: 0EAB48C31900351580BAFC86EF4021BF

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	22	14	17	23	19	24	24	27	22	18
		16	16	20	16	26	20	17	22	20	21
100		26	29	28	25	28	24	30	24	28	28
		19	25	28	25	25	27	26	25	20	26

7d Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

000-189-126-0

CETIS™ V1.9.7.7

Analyst:  QA: 

CETIS Analytical Report

Report Date: 15 Jan-21 14:36 (p. 1 of 2)
Test Code/D: CWE1220.152 / 16-9723-9745

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 17-8625-2858	Endpoint: Reproduction	CETIS Version: CETISv19.7
Analyzed: 15 Jan-21 14:36	Analysis: Parametric Bioequivalence Two Sample	Status Level: 1
Cell Date: 15 Jan-21 14:36	MD5 Hash: D56CA0EC4F761B06C82F940B05A75B5	Editor ID: 000-189-126-0
Batch ID: 00-0080-3318	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 29 Dec-20 14:33	Protocol: BPA/B21/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 05 Jan-21 14:25	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 7d	Taxon: Branchiopoda	Source: Aquatic Biosystems, CO Age:
Sample ID: 19-5519-2150	Code: CWE1220.152	Project: 2037% Gardena WQ Monitoring
Sample Date: 28 Dec-20 09:40	Material: Sample /Water	Source: Bioassay Report
Receipt Date: 28 Dec-20 15:45	CAS (PC):	Station: 20201228GARDENA-R1
Sample Age: 35h (4.5 °C)	Client: CWE Corporation	

Data Transform	Alt Hyp	TST b	Comparison Result
Untransformed	C ₀ < T	0.75	100% passed reproduction endpoint

TST-Weich's T Test

Control	ys	Conc-%	Test Stat	Critical	DF	P-Type	P-Value	Decision(c:20%)
Negative Control	100%		12.49	0.8514	37	COF	<1.0E-05	Non-Significant Effect

Test Acceptability Criteria

TAC Limits

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	20.05	15	>>	Yes	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(c:5%)
Between	319.225	319.225	1	31.5	<1.0E-05	Significant Effect
Error	385.15	10.1355	38			
Total	704.375		39			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(c:1%)
Variance	Levene Equality of Variance Test	2.035	7.353	0.0948	Equal Variances
	Mod Levene Equality of Variances Test	2.977	7.353	0.0926	Equal Variances
	Variance Ratio F Test	1.787	8.438	0.2149	Equal Variances
Distribution	Anderson-Darling A2 Test	0.3842	3.878	0.3787	Normal Distribution
	D'Agostino Kurtosis Test	0.1625	2.576	0.4709	Normal Distribution
	D'Agostino Skewness Test	0.6032	2.576	0.5464	Normal Distribution
	D'Agostino-Pearson K2 Omnibus Test	0.3853	9.21	0.8227	Normal Distribution
	Kolmogorov-Smirnov D Test	0.1119	0.1817	0.2258	Normal Distribution
	Shapiro-Wilk W Normality Test	0.9789	0.9238	0.6494	Normal Distribution

Reproduction Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	20	20.05	18.36	21.74	20	14	27	0.8861	17.86%	0.00%
100		20	25.7	24.44	26.96	26	19	30	0.6051	10.49%	-28.18%

Reproduction Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	22	14	17	23	19	24	24	27	22	18
		18	16	26	16	25	20	17	22	30	21
100		26	29	28	25	29	24	30	24	26	26
		19	25	28	25	25	27	26	29	20	28

000-189-126-0

CETIS™ v19.7.7

Analyst:  QA

CETIS Analytical Report

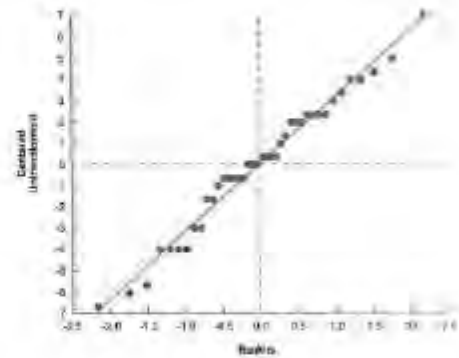
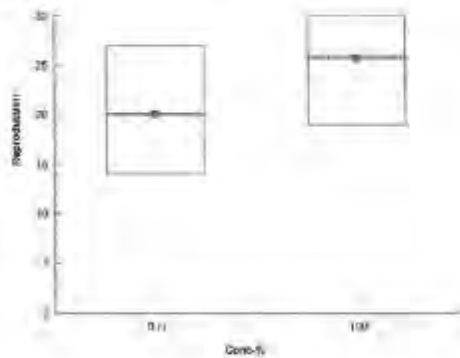
Report Date: 15 Jan-21 14:36 (p 2 of 2)
Test Code/ID: CWE1220.152 / 15-9723-8745

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 17-6825-2058	Endpoint: Reproduction	CETIS Version: CETISv1.9.7
Analyzed: 15 Jan-21 14:36	Analysis: Parametric Bioequivalence-Two Sample	Status Level: 1
Edit Date: 15 Jan-21 14:34	MD5 Hash: C56EAD6C4F761B0BC62F9408305A75B5	Editor ID: 000-189-126-0

Graphics



000-189-126-0

CETIS™ v1.9.7.7

Analyst:

Handwritten signature of the analyst, followed by the initials "QA" and a large "P".

CETIS Analytical Report

Report Date: 15 Jan 21 14:36 (p. 1 of 2)
Test Code/ID: CWE1220.152.1 18-9723-0745

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 18-9241-8884	Endpoint: 7d Survival Rate	CETIS Version: CETIS v1.9.7
Analysis Date: 15 Jan 21 14:36	Analysis: Single 2x2 Contingency Table	Status Level: 1
Edit Date: 15 Jan 21 14:34	MD5 Hash: 020CA8A1905E800F070F00C5E12DEE1B	Editor ID: 000-189-128-0
Batch ID: 00-0083-3318	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 29 Dec 20 14:33	Protocol: EPA/621/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 05 Jan 21 14:26	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 7d	Taxon: Branchiopoda	Source: Aquatic Biosystems, CO. Agv
Sample ID: 18-6518-5150	Code: CWE1220.152	Project: 2037A Gardena WQ Monitoring
Sample Date: 28 Dec 20 05:40	Material: Sample Water	Source: Bioassay Report
Receipt Date: 28 Dec 20 15:45	CAS (PC):	Station: 20201228GARDENA-R1
Sample Age: 36h (4.5 °C)	Client: CWE Corporation	

Data Transform	Alt Hyp	Comparison Result
Untransformed	C > T	100% passed 7d survival rate endpoint

Fisher Exact Test

Control	vs	Conc-%	Test Stat	P-Type	P-Value	Decision(α=5%)
Negative Control		100	1.0000	Exact	1.0000	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits		Overlap	Decision
		Lower	Upper		
Control Resp	1	0.8	>>	Yes	Passes Criteria

7d Survival Rate Frequencies

Conc-%	Code	NR	R	NR + R	Prop NR	Prop R	%Effect
0	N	20	0	20	1.0000	0.0000	0.00%
100		20	0	20	1.0000	0.0000	0.00%

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	20	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
100		20	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%

7d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

7d Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

000-189-128-0

CETIS™ v1.3.7.7

Analyst:



CETIS Analytical Report

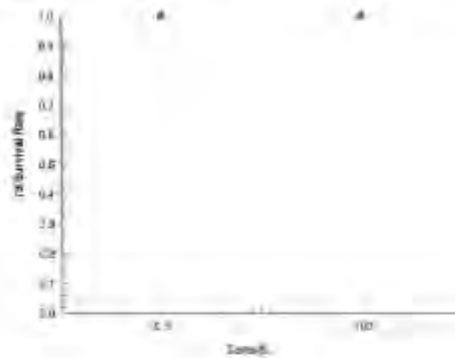
Report Date: 15 Jan-21 14:38 (p 2 of 2)
Test Code/ID: COWE1220 152 / 16-9723-6745

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	18-9241-6864	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.9.7
Analyzed:	15 Jan-21 14:38	Analysis:	Single 2x2 Contingency Table	Status Level:	1
Edit Date:	15 Jan-21 14:34	MD5 Hash:	020CAA81965E86F678F0aC3E12DEE15	Editor ID:	000-169-125-0

Graphics



000-169-125-0

CETIS™ v1.9.7.7

Analyst: 

CETIS Measurement Report

Report Date: 16 Jan-21 14:36 (p. 1 of 4)

Test Code/ID: CWE1220.152 / 16-9723-2745

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 00-0093-3318	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 29 Dec-20 14:33	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 05 Jan-21 14:25	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 7d	Taxon: Branchiopoda	Source: Aquatic Biosystems, CO Age:
Sample ID: 19-8519-2150	Code: CWE1220.152	Project: 20374 Gardena WQ Monitoring
Sample Date: 29 Dec-20 03:40	Material: Sample Water	Source: Bioassay Report
Receipt Date: 28 Dec-20 15:15	CAS (PC):	Station: 20201229GARDENA-R
Sample Age: 35h (4.5 °C)	Client: CWE Corporation	

Alkalinity (CaCO₃)-mg/L

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	6	60	60	60	60	60	0	0	0.00%	0
100		6	83	83	83	83	83	0	0	0.00%	0
Overall		16	71.5	65.17	77.83	60	83	2.969	11.86	16.51%	0 (0%)

Conductivity-µmhos

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	338.6	325.8	341.3	332	342	0.4005	3.204	0.95%	0
100		8	380.4	376.4	404.4	350	389	2.091	16.72	4.28%	0
Overall		16	364.5	349	380	332	389	7.286	29.15	8.00%	0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	7.525	7.342	7.706	7.3	7.8	0.02735	0.2158	2.81%	0
100		8	6.387	6.016	6.757	6	7	0.05527	0.4422	8.82%	0
Overall		16	6.896	6.595	7.317	6	7.8	0.1663	0.6772	9.74%	0 (0%)

Hardness (CaCO₃)-mg/L

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	91.58	89.77	94.04	90	95	0.3238	2.588	2.82%	0
100		8	120	120	120	120	120	0	0	0.00%	0
Overall		16	105.9	98.14	113.7	90	120	3.658	14.63	13.81%	0 (0%)

pH-Units

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	7.913	7.859	7.956	7.8	8	0.00801	0.06408	0.81%	0
100		8	7.363	7.254	7.471	7.2	7.5	0.01828	0.1302	1.77%	0
Overall		16	7.638	7.477	7.788	7.2	8	0.07521	0.3006	3.94%	0 (0%)

Temperature-°C

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	24	24	24	24	24	0	0	0.00%	0
100		8	24	24	24	24	24	0	0	0.00%	0
Overall		16	24	24	24	24	24	0	0	0.00%	0 (0%)

D00-J09-120-0

CETIS™ v1.9.7.7

Analyst:

QA:

CETIS Measurement Report

Report Date: 15 Jan-21 14:26 (p 2 of 4)

Test Code/ID: CWE1220.152 / 16-8723-8745

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO₃)-mg/L

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		60					
100				83					
0	N	2		60					
100				83					
0	N	3		60					
100				83					
0	N	4		60					
100				83					
0	N	5		60					
100				83					
0	N	6		60					
100				83					
0	N	7		60					
100				83					
0	N	8		60					
100				83					

Conductivity-µmhos

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		337					
100				369					
0	N	2		332					
100				398					
0	N	3		342					
100				399					
0	N	4		338					
100				398					
0	N	5		339					
100				398					
0	N	6		342					
100				398					
0	N	7		339					
100				350					
0	N	8		340					
100				392					

000-169-126-0

CETIS™ v1.9.7.7

Analyst:

msa. P

CETIS Measurement Report

Report Date: 15 Jan 21 14:36 (p 3 of 4)

Test Code/ID: CWE1220.152 / 16-9723-8745

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Dissolved Oxygen-mg/L

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		7.6					
100				8					
0	N	2		7.2					
100				6.2					
0	N	3		7.6					
100				8					
0	N	4		7.2					
100				8					
0	N	5		7.3					
100				6.2					
0	N	6		7.7					
100				8.7					
0	N	7		7.8					
100				7					
0	N	8		7.6					
100				7					

Hardness (CaCO₃)-mg/L

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		95					
100				120					
0	N	2		95					
100				120					
0	N	3		95					
100				120					
0	N	4		90					
100				120					
0	N	5		90					
100				120					
0	N	6		90					
100				120					
0	N	7		90					
100				120					
0	N	8		90					
100				120					

000-189-126-0

CETIS™ v1 9.7.7

Analyst:

QA:

CETIS Measurement Report

Report Date: 15 Jan-21 14:36 (p 4 of 4)

Test Code/ID: CWE1220.152 / 16-9723-8745

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

pH-Units

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		8					
100				7.4					
0	N	2		7.9					
100				7.3					
0	N	3		7.9					
100				7.2					
0	N	4		7.9					
100				7.2					
0	N	5		7.9					
100				7.3					
0	N	6		7.8					
100				7.5					
0	N	7		8					
100				7.5					
0	N	8		7.9					
100				7.5					

Temperature-°C

Conc-%	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		24					
100				24					
0	N	2		24					
100				24					
0	N	3		24					
100				24					
0	N	4		24					
100				24					
0	N	5		24					
100				24					
0	N	6		24					
100				24					
0	N	7		24					
100				24					
0	N	8		24					
100				24					

000-158-128-0

CETISSM v1.9.7.7

Analyst:

QA:

[illegible]

Aquatic Bioassay and Consulting Laboratories
29 N. Olive Street, Ventura, CA 93001 Phone: (805) 643-5521 Fax: (805) 643-2500

**CHRONIC CERIODAPHNIA SURVIVAL AND REPRODUCTION BIOASSAY**

DATE: 8 December - 2020

STANDARD TOXICANT: Copper Chloride

ENDPOINT: SURVIVAL

NOEC = 10.00 ug/l

EC25 = 15.00 ug/l

EC50 = 20.00 ug/l

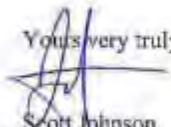
ENDPOINT: REPRODUCTION

NOEC = 5.00 ug/l

IC25 = 8.10 ug/l

IC50 = 13.31 ug/l

Yours very truly,


Scott Johnson
Laboratory Director

29 north olive st. ventura, ca 93001 (805) 643 5621 aquabio.org

CETIS Summary Report

Report Date: 22 Dec-20 10:42 (p 1 of 2)
Test Code/ID: CER120820 / 04-3852-9463

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 17-5695-9834	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 09 Dec-20 15:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 15 Dec-20 15:14	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 7d 0h	Taxon: Branchiopoda	Source: Aquatic Biosystems, CO
		Age:
Sample ID: 17-7694-7578	Code: CER120820	Project: REF TOX
Sample Date: 08 Dec-20 15:00	Material: Copper chloride	Source: Reference Toxicant
Receipt Date:	CAS (PC):	Station: REF TOX
Sample Age: —	Client: ABC Labs	

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	✓	NOEL	LOEL	TOEL	PMSD	S
20-1985-2912	7d Survival Rate	Fisher Exact/Bonferroni-Holm Test		10	30	17.32	—	1
15-0569-9363	Reproduction	Steel Many-One Rank Sum Test	✓	5	10	7.071	17.6%	1

Point Estimate Summary

Analysis ID	Endpoint	Point Estimate Method	✓	Level	µg/L	95% LCL	95% UCL	S
19-9042-0815	7d Survival Rate	Linear Interpolation (ICPIN)		EC10	12	12	12	1
				EC15	13	13	13	
				EC20	14	14	14	
				EC25	15	15	15	
				EC40	18	18	18	
				EC50	20	20	20	
05-8555-6735	Reproduction	Linear Interpolation (ICPIN)	✓	IC10	6.242	5.52	6.46	1
			✓	IC15	6.892	6.205	7.221	
			✓	IC20	7.483	6.852	7.972	
			✓	IC25	8.104	7.5	8.715	
			✓	IC40	9.988	9.308	12	
			✓	IC50	13.31	11.45	15.1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits			Overlap	Decision
				Lower	Upper			
19-9042-0815	7d Survival Rate	Control Resp	1	0.8	>>		Yes	Passes Criteria
20-1985-2912	7d Survival Rate	Control Resp	1	0.8	>>		Yes	Passes Criteria
05-8555-6735	Reproduction	Control Resp	20.6	15	>>		Yes	Passes Criteria
15-0569-9363	Reproduction	Control Resp	20.6	15	>>		Yes	Passes Criteria
15-0569-9363	Reproduction	PMSD	0.176	0.13	0.47		Yes	Passes Criteria

7d Survival Rate Summary

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	—	0.00%
2		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	—	0.00%
5		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	—	0.00%
10		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	—	0.00%
30		10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	—	100.00%
50		10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	—	100.00%

Reproduction Summary

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	10	20.6	17.21	23.99	14	30	1.5	4.742	23.02%	0.00%
2		10	21.1	17.19	25.01	10	28	1.729	5.460	25.91%	-2.43%
5		10	24.1	21.88	26.32	19	28	0.9626	3.107	12.99%	-18.99%
10		10	13.1	11.85	14.55	10	18	0.8403	2.029	15.46%	36.41%
30		10	0.2	-0.2524	0.6524	0	2	0.2	0.6325	316.23%	99.03%
50		10	0	0	0	0	0	0	0	—	100.00%

000-189-126-0

CETIS™ v1.8.7.7

Analyst:  MSJ

CETIS Summary Report

Report Date: 22 Dec 20 10:42 (p 2 of 2)

Test Code/ID: GER120820 / 04-3552-9453

Caridaptinia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

MDS: 85EB4CD5A8ABF4A8A12563E40515E874

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
3		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
50		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Reproduction Detail

MDS: 916DQD2D37F22805ECC9CA2DB078E31D

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	19	17	22	24	28	16	14	18	22	30
3		16	28	21	20	27	21	22	21	26	10
5		19	24	28	28	24	27	23	21	22	28
10		12	18	17	12	10	12	14	18	16	14
30		0	0	0	0	0	0	0	0	0	0
50		0	0	0	0	0	0	0	0	0	0

7d Survival Rate Binomials

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
3		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
10		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
30		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
50		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1

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CETIS™ v1.9.7.7

Analyst:  QA: 

CETIS Analytical Report

Report Date: 22 Dec 20 10:42 (p 1 of 2)
Test CodeID: CER120920 7 04-3052-9463

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	15-0559-9263	Endpoint:	Reproduction	CETIS Version:	CETIS v1.9.7
Analyzed:	22 Dec 20 10:40	Analysis:	Nonparametric Control vs Treatment	Status Level:	1
Edit Date:	22 Dec 20 10:38	MD5 Hash:	284330AA17F90D352D393CD2A5713F23	Editor ID:	006-169-126-0
Batch ID:	17-6895-9634	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	08 Dec 20 15:00	Protocol:	CPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	15 Dec 20 15:14	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Test Length:	7d 0h	Taxon:	Branchiopoda	Source:	Aquatic Biosystems, CO Age:
Sample ID:	17-7694-7578	Code:	CER120620	Project:	REF TOX
Sample Date:	08 Dec 20 15:00	Material:	Copper chloride	Source:	Reference Toxicant
Receipt Date:		CAS (PC):		Station:	REF TOX
Sample Age:	—	Client:	ABC Labs		

Data Transform	All Hyp	NOEL	LOEL	FOEL	7U	MSDu	PMSD
Untransformed	C > T	5	10	7.071	—	3.625	17.60%

Steel Many-One Rank Sum Test

Control	vs	Conc-µg/L	Test Stat	Critical	Ties	DF	P-Type	P-Value	Decision(α:5%)
Negative Control	3		109	76	1	10	CDF	0.8845	Non-Significant Effect
	5		128.5	76	3	10	CDF	0.8884	Non-Significant Effect
	10*		59.5	76	2	10	CDF	0.0011	Significant Effect
	30*		50	76	0	10	CDF	0.0003	Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	20.6	15	>>	Yes	Passes Criteria
FMSD	0.176	0.13	0.47	Yes	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	3706.68	526.67	4	60.66	<1.0E-05	Significant Effect
Error	583.7	13.3044	45			
Total	4305.38		49			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Bartlett Equality of Variance Test	91.81	13.28	<1.0E-05	Unequal Variances
	Levene Equality of Variance Test	4.235	3.767	0.0054	Unequal Variances
	Mod Levene Equality of Variance Test	4.466	3.767	0.0040	Unequal Variances
Distribution	Anderson-Darling A2 Test	0.6151	3.878	0.0199	Normal Distribution
	D'Agostino Kurtosis Test	2.127	2.878	0.0334	Normal Distribution
	D'Agostino Skewness Test	0.7888	2.578	0.4420	Normal Distribution
	D'Agostino-Pearson R2 Omnibus Test	5.114	9.21	0.0775	Normal Distribution
	Kolmogorov-Smirnov D Test	0.1372	0.1453	0.0186	Normal Distribution
	Shapiro-Wilk W Normality Test	0.9808	0.8967	0.0957	Normal Distribution

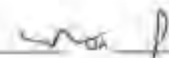
Reproduction Summary

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	10	20.6	17.21	23.99	20.5	14	30	1.5	23.02%	0.00%
3		19	21.1	17.19	25.01	21	10	28	1.728	25.51%	-2.43%
5		10	24.1	21.85	26.32	24	19	28	0.9826	12.89%	-18.99%
10		10	13.1	11.65	14.55	13	10	16	0.6400	15.46%	36.41%
30		10	0.2	-0.2524	0.6524	0	0	2	0.2	315.28%	99.03%
50		10	0	0	0	0	0	0	0	—	100.00%

DGL-R&B-100-01

CETIS 19 v1.9.7.7

Analyst



CETIS Analytical ReportReport Date: 22 Dec-20 10:42 (p 2 of 2)
Test Code/ID: CER120820 / 04-3952-9453

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 15-0509-9363

Endpoint: Reproduction

CETIS Version: CETISv1.9.7

Analyzed: 22 Dec-20 10:40

Analysis: Nonparametric-Control vs Treatments

Status Level: 1

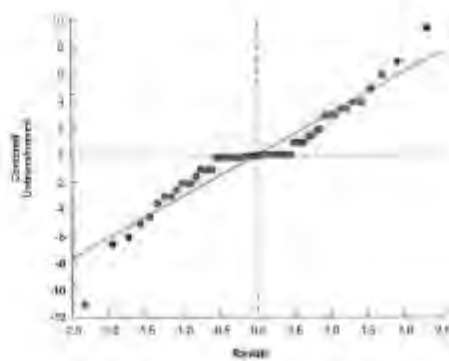
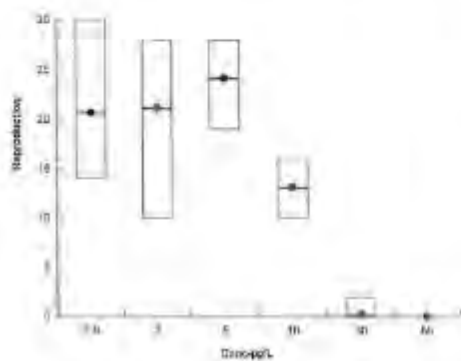
Edit Date: 22 Dec-20 10:38

MD5 Hash: 284330AA17F00D352D393CQ2A3713F23

Editor ID: 000-169-126-0

Reproduction Detail

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	19	17	22	24	24	18	14	15	22	30
3		15	28	21	20	27	21	22	21	26	10
5		19	24	28	26	24	27	22	21	22	28
10		12	16	11	12	10	12	14	14	16	14
30		0	0	0	0	0	0	0	0	0	0
50		0	0	0	0	0	0	0	0	0	0

Graphics

000-169-126-0

CETIS™ v1.9.7.7

Analyst: W. A. P.

CETIS Analytical Report

Report Date: 22 Dec 20 16:42 (p 1 of 4)
Test Code/ID: CER120820 / 04-3852-9483

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 19-5042-0815	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.9.7
Analyzed: 22 Dec 20 10:41	Analysis: Linear Interpolation (ICPIN)	Status Level: 1
Edit Date: 22 Dec 20 16:36	MD5 Hash: 88EB4CD6ABAF9A8412568E40515EB74	Editor ID: 000-189-126-0
Batch ID: 17-6695-0834	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 08 Dec 20 15:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 15 Dec 20 15:14	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 7d 0h	Taxon: Branchiopoda	Source: Aquatic Biosystems, BC, Agri
Sample ID: 17-7694-7578	Code: CER120820	Project: REF TOX
Sample Date: 08 Dec 20 15:00	Material: Copper chloride	Source: Reference Toxicant
Receipt Date:	CAS (PC):	Station: REF TOX
Sample Age: —	Client: ABC Labs	

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	250	Yes	Two-Point Interpolation

Test Acceptability Criteria

TAC Limits

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	1	0.8	>>	Yes	Passes Criteria

Point Estimates

Level	ug/L	95% LCL	95% UCL
EC10	12	12	12
EC15	13	13	13
EC20	14	14	14
EC25	15	15	15
EC40	18	18	18
EC50	20	20	20

7d Survival Rate Summary

Calculated Variate(A/B)

Isotonic Variate

Conc-ug/L	Code	Count	Mean	Median	Min	Max	CV%	%Effect	A/B	Mean	%Effect
0	N	10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
3		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
5		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
10		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
20		10	0.0000	0.0000	0.0000	0.0000	—	100.00%	0/10	0.0000	100.00%
50		10	0.0000	0.0000	0.0000	0.0000	—	100.00%	0/10	0.0000	100.00%

7d Survival Rate Detail

Conc-ug/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
3		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
50		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7d Survival Rate Binomials

Conc-ug/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
3		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
10		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
20		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
50		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1

000-189-126-0

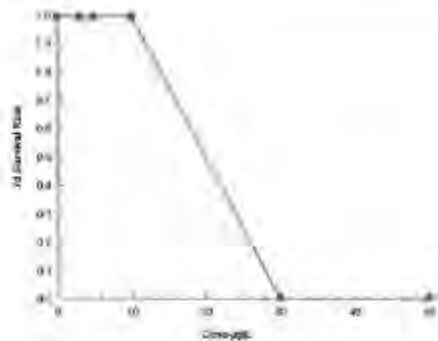
CETIS v1.9.7.7

Analyst:  QA: 

CETIS Analytical ReportReport Date: 22 Dec 20 10:42 (p 2 of 4)
Test Code/ID: CER120820 / 04-5852-9465**Ceriodaphnia 7-d Survival and Reproduction Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 19-9042-0815	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.9.7
Analyzed: 22 Dec 20 10:41	Analysis: Linear Interpolation (ICPIN)	Status Level: 1
Edit Date: 22 Dec 20 10:39	MD5 Hash: 86EB4CD6A8ABF4A8412569E40615EB74	Editor ID: 000-189-126-0

Graphics

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CETIS™ v1.9.7.7

Analyst: _____

QA: _____

CETIS Analytical Report

Report Date: 22 Dec-20 10:42 (p 3 of 4)
Test Code/ID: CER120820 (04-3852-0483)

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 05-8555-4735	Endpoint: Reproduction	CETIS Version: CETISv1.9.7
Analyzed: 22 Dec-20 10:41	Analysis: Linear Interpolation (ICPIN)	Status Level: 1
Edit Date: 22 Dec-20 10:36	MD5 Hash: 284330AA17F10D362D298CD2A3713F23	Editor ID: 000-189-126-0
Batch ID: 17-6895-0834	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 08 Dec-20 15:00	Protocol: EPA/821/R-02-015 (2002)	Diluent: Laboratory Water
Ending Date: 15 Dec-20 15:14	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 7d 0h	Taxon: Branchiopoda	Source: Aquatic Biosystems, CO Age:
Sample ID: 17-7694-7578	Code: CER120820	Project: REF TOX
Sample Date: 08 Dec-20 15:00	Material: Copper chloride	Source: Reference Toxicant
Receipt Date:	CAS (PC):	Station: REF TOX
Sample Age: —	Client: ABC Labs	

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp. 95% CI	Method
Linear	Linear	1009431	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

TAC Limits

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	20.8	15	25	Yes	Passes Criteria

Point Estimates

Level	µg/L	95% LCL	95% UCL
IC10	6.242	5.52	6.48
IC15	6.862	6.205	7.221
IC20	7.483	6.852	7.972
IC25	8.104	7.5	8.715
IC30	8.966	8.309	12
IC50	13.31	11.45	15.1

Reproduction Summary

Calculated Variate

Isotonic Variate

Conc-µg/L	Code	Count	Mean	Median	Min	Max	CV%	%Effect	Mean	%Effect
0	N	10	20.8	20.5	14	30	23.02%	0.00%	21.05	0.00%
3		10	21.1	21	10	28	25.91%	-2.43%	21.83	0.00%
5		10	24.1	24	18	28	12.89%	-16.89%	21.83	0.00%
10		10	13.1	13	10	16	15.48%	36.41%	13.1	49.27%
30		10	0.2	0	0	2	316.23%	99.03%	0.2	99.03%
50		10	0	0	0	0	—	100.00%	0	100.00%

Reproduction Detail

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	19	17	22	24	24	16	14	18	22	30
3		15	28	21	20	27	21	22	21	26	19
5		19	24	28	26	24	27	22	21	22	28
10		12	15	11	12	10	12	11	14	16	14
30		0	0	0	0	0	0	0	0	0	0
50		0	0	0	0	0	0	0	0	0	0

D00-189-126-0

CETIS™ v1.9.7.7

Analyst:  DA

CETIS Analytical ReportReport Date: 22-Dec-20 10:42 (p. 4 of 4)
Test Code/ID: CER120820 / 04-3652-9463

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 05-8555-0735

Endpoint: Reproduction

CETIS Version: CETISv1.3.7

Analyzed: 22-Dec-20 10:41

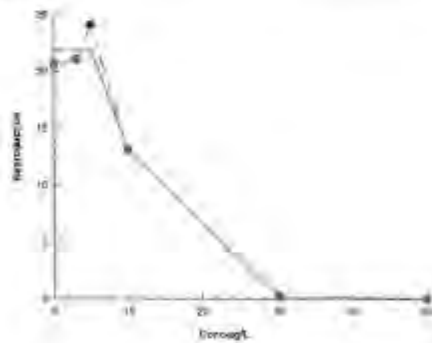
Analysis: Linear Interpolation (LOPIN)

Status Level: 1

Edit Date: 22-Dec-20 10:36

MD5 Hash: 284330AA17F00D352D393CD2A3713F23

Editor ID: 000-188-126-0

Graphics

000-188-126-0

CETIS™ v1.3.7.7

Analyst:

QA:

CETIS Analytical Report

Report Date: 22 Dec-20 10:42 (p 1 of 2)
Test Code/ID: CER120820 / 04-3852-9463

Ceriodaphnia 7-d Survival and Reproduction Test			Aquatic Bioassay & Consulting Labs, Inc.		
Analysis ID:	20-1885-2812	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.8.7
Analyzed:	22 Dec-20 10:40	Analysis:	STP 20K Contingency Tables	Status Level:	1
Edit Date:	22 Dec-20 10:36	MD5 Hash:	B8EB4CD6A8ABF4A9412569E40515EB74	Editor ID:	000-185-126-0
Batch ID:	17-6895-9834	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	08 Dec-20 15:00	Protocol:	EPA/821/R-02-011 (2002)	Diluent:	Laboratory Water
Ending Date:	15 Dec-20 15:14	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Test Length:	7d 0h	Taxon:	Branchiopoda	Source:	Aquatic Biosystems, CC Age:
Sample ID:	17-7694-7576	Code:	CER120820	Project:	REF TOX
Sample Date:	08 Dec-20 15:00	Material:	Copper chloride	Source:	Reference Toxicant
Receipt Date:		CAS (PC):		Station:	REF TOX
Sample Age:		Client:	ABC Labs		

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	TU
Untransformed	C > T	10	30	17.32	—

Fisher Exact/Bonferroni-Holm Test						
Control	vs	Conc-µg/L	Test Stat	P-Type	P-Value	Decision(α=5%)
Negative Control	3		1.0000	Exact	1.0000	Non-Significant Effect
	5		1.0000	Exact	1.0000	Non-Significant Effect
	10		1.0000	Exact	1.0000	Non-Significant Effect
	30*		0.0000	Exact	2.7E-05	Significant Effect
	50*		0.0000	Exact	3.7E-05	Significant Effect

Test Acceptability Criteria					
TAC Limits					
Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	1	0.8	>>	Yes	Passes Criteria

7d Survival Rate Frequencies							
Conc-µg/L	Code	NR	R	NR + R	Prop NR	Prop R	%Effect
0	N	10	0	10	1.0000	0.0000	0.00%
3		10	0	10	1.0000	0.0000	0.00%
5		10	0	10	1.0000	0.0000	0.00%
10		10	0	10	1.0000	0.0000	0.00%
30		0	10	10	0.0000	1.0000	100.00%
50		0	10	10	0.0000	1.0000	100.00%

7d Survival Rate Summary											
Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
3		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
5		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
10		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
30		10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	100.00%
50		10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	—	100.00%

7d Survival Rate Detail											
Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
3		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
50		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

0005188-1386-0

CETIS™ v1.8.7.7

Analyst:  QA: 

CETIS Analytical Report

Report Date: 22 Dec-20 10:42 (p 2 of 2)
Test Code/ID: CER120820 / 04-2852-9463

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 20-1885-2812

Endpoint: 7d Survival Rate

CETIS Version: CETISv1.9.7

Analyzed: 22 Dec-20 10:40

Analysis: STP 2xK Contingency Tables

Status Level: 1

Edit Date: 22 Dec-20 10:36

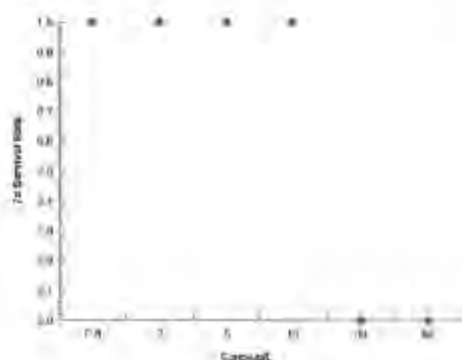
MD5 Hash: 80EB4CD6A8A9F4A8412569E40S15EB74

Editor ID: 000-189-126-0

7d Survival Rate Binomials

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	N	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
3		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
10		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
30		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
50		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1

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CETIS™ v1.9.7

Analyst

QA P

CETIS Measurement Report

Report Date: 22 Dec-20 10:42 (p 1 of 8)

Test Code/ID: CER120820 / 04-0632-9462

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 17-6885-9834	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 08 Dec-20 15:00	Protocol: EPA821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 15 Dec-20 15:14	Species: Ceriodaphnia dubia	Brine: Not Applicable
Test Length: 7d 0h	Taxon: Branchiopoda	Source: Aquatic Biosystems, CO
		Age:
Sample ID: 17-7594-7578	Code: CER120820	Project: REF TOX
Sample Date: 08 Dec-20 15:00	Material: Copper chloride	Source: Reference Toxicant
Receipt Date:	CAS (PC):	Station: REF TOX
Sample Age: —	Client: ABC Labs	

Alkalinity (CaCO₃)-mg/L

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	6	60.62	60.19	61.06	60	61	0.06469	0.5175	0.85%	0
50		4	61	61	61	61	61	0	0	0.00%	0
Overall		12	60.75	60.46	61.04	60	61	0.1306	0.4523	0.70%	0 (0%)

Conductivity-µmhos

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	6	337.6	335.4	340.1	332	340	0.3456	2.705	0.82%	0
3		6	335	332.2	337.8	330	338	0.4226	3.361	1.01%	0
5		6	332	328.9	335.1	326	337	0.4629	3.703	1.12%	0
10		6	330.9	326.8	334.9	322	336	0.603	4.824	1.46%	0
30		6	332.8	330.4	335.3	330	337	0.3881	2.317	0.70%	0
50		4	330.6	332.6	340.7	334	340	0.625	2.5	0.74%	0
Overall		42	334	332.7	335.3	322	340	0.6407	4.163	1.24%	0 (0%)

Dissolved Oxygen-mg/L

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	7.6	7.366	7.814	7	7.6	0.03204	0.2663	3.37%	0
3		8	7.565	7.27	7.855	6.8	7.6	0.04378	0.3503	4.63%	0
5		8	7.513	7.201	7.824	6.8	7.9	0.0465	0.372	4.95%	0
10		8	7.45	7.147	7.753	6.7	7.6	0.04532	0.3625	4.87%	0
30		8	7.4	7.17	7.63	7.1	7.7	0.03651	0.2191	2.96%	0
50		4	7.325	6.85	7.8	7	7.7	0.07465	0.2966	4.08%	0
Overall		42	7.493	7.395	7.591	6.7	7.9	0.04636	0.3134	4.18%	0 (0%)

Hardness (CaCO₃)-mg/L

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	6	91.86	89.71	94.04	90	96	0.3235	2.686	2.92%	0
50		4	106	106	106	106	106	0	0	0.00%	0
Overall		12	97.25	92.04	102.5	90	106	2.368	8.206	8.44%	0 (0%)

pH-Units

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	7.936	7.849	8.025	7.9	8.2	0.01328	0.1061	1.24%	0
3		8	7.886	7.856	7.917	7.8	7.9	0.004417	0.03533	0.45%	0
5		8	7.9	7.855	7.945	7.8	8	0.00669	0.05344	0.68%	0
10		8	7.926	7.891	7.961	7.8	8	0.01108	0.08854	1.12%	0
30		6	7.917	7.813	8.02	7.8	8	0.01639	0.09032	1.24%	0
50		4	7.8	7.576	8.025	7.7	8	0.03536	0.1414	1.61%	0
Overall		42	7.902	7.874	7.93	7.7	8.2	0.01384	0.09968	1.14%	0 (0%)

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CETIS™ v1.6.7.2

Analyst:  QA: 

CETIS Measurement ReportReport Date: 22 Dec 20, 10:42 (p 2 of 3)
Test Code/ID: CER120820 / 04-2852-9463

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Temperature: °C

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	8	24	24	24	24	24	0	0	0.00%	0
3		8	24	24	24	24	24	0	0	0.00%	0
5		8	24	24	24	24	24	0	0	0.00%	0
10		8	24	24	24	24	24	0	0	0.00%	0
30		8	24	24	24	24	24	0	0	0.00%	0
60		8	24	24	24	24	24	0	0	0.00%	0
Overall		62	24	24	24	24	24	0	0	0.00%	0 (0%)

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CETIS[®] v1.0.7.7Analyst:  QA: 

CETIS Measurement Report

Report Date: 22 Dec-20 10:42 (p 3 of 8)

Test Code/ID: CER120620 / D4-3852-9463

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO₃)-mg/L

Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		61					
50				61					
0	N	2		61					
50				61					
0	N	3		61					
50				61					
0	N	4		61					
50				61					
0	N	5		61					
0	N	6		60					
0	N	7		60					
0	N	8		60					

000-189-526-0

CETIS™ v1.9.7.7

Analyst:  QA: 

CETIS Measurement Report

Report Date: 22 Dec 20, 10:42 (p 4 of 8)

Test Code/ID: CER120920 1 04-3852-9483

Carinodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Conductivity-µmhos

Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		336					
3				339					
5				334					
10				335					
30				332					
50				336					
0	N	2		340					
3				332					
5				333					
10				336					
30				332					
50				337					
0	N	3		332					
3				336					
5				337					
10				336					
30				333					
50				334					
0	N	4		337					
3				330					
5				328					
10				322					
30				337					
50				340					
0	N	5		338					
3				332					
5				328					
10				327					
30				330					
0	N	6		340					
3				335					
5				330					
10				328					
30				333					
0	N	7		339					
3				337					
5				333					
10				330					
0	N	8		340					
3				338					
5				335					
10				333					

005-180-126-0

CETIS™ v1.9.7.7

Analyst:

QA:

CETIS Measurement ReportReport Date: 22 Dec 20 10:42 (p 5 of 8)
Test Code/ID: CER120820 / 04-3652-9483

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Dissolved Oxygen-mg/L

Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		7.7					
3				7.9					
5				7.9					
10				7.8					
30				7.7					
50				7.7					
0	N	2		7.6					
3				7.2					
5				7.2					
10				7.3					
30				7.4					
50				7.4					
0	N	3		7.6					
3				7.6					
5				7.4					
10				7.3					
30				7.3					
50				7.2					
0	N	4		7.6					
3				7.5					
5				7.6					
10				7.4					
30				7.3					
50				7					
0	N	5		7.7					
3				7.8					
5				7.7					
10				7.7					
30				7.6					
0	N	6		7.8					
3				7.8					
5				7.8					
10				7.7					
30				7.1					
0	N	7		7.8					
3				7.6					
5				7.8					
10				7.7					
0	N	8		7					
3				6.8					
5				6.8					
10				6.7					

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CETIS™ v1.0.7.7

Analyst:  TGA

CETIS Measurement ReportReport Date: 22 Dec 20 10:42 (p 6 of 8)
Test Code/ID: CER120820 / 04-3852-9483

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Hardness (CaCO₃)-mg/L

Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		90					
50				106					
0	N	2		90					
50				106					
0	N	3		90					
50				108					
0	N	4		90					
50				108					
0	N	5		90					
0	N	6		95					
0	N	7		95					
0	N	8		95					

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CETISTM v1.9.7.7Analyst:  QAC

CETIS Measurement Report

Report Date: 22 Dec 20 10:42 (p 7 of 8)

Test Code/ID: CER120820 / 04-3952-0463

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

pH-Units

Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		8.2					
3				7.8					
5				7.8					
10				7.8					
30				7.9					
50				7.8					
0	N	2		7.9					
3				7.8					
5				7.9					
10				8					
30				8					
50				8					
0	N	3		7.6					
3				7.8					
5				7.9					
10				7.6					
30				7.6					
50				7.7					
0	N	4		7.9					
3				7.9					
5				7.9					
10				8					
30				8					
50				7.7					
0	N	5		7.9					
3				7.8					
5				7.9					
10				8					
30				8					
0	N	6		7.9					
3				7.9					
5				7.9					
10				7.9					
30				7.9					
0	N	7		7.9					
3				7.9					
5				7.9					
10				7.9					
0	N	8		7.9					
3				7.9					
5				8					
10				8					

DOD-186-426-0

CETIS™ v1.0.7.7

Analyst:

QA:

CETIS Measurement Report

Report Date: 22 Dec-20 10:42 (p.8 of 8)
Test Code/ID: CER120820 / 04-3852-9483

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Temperature: °C

Conc-µg/L	Code	Read	Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	N	1		24					
3				24					
5				24					
10				24					
30				24					
50				24					
0	N	2		24					
3				24					
5				24					
10				24					
30				24					
50				24					
0	N	3		24					
3				24					
5				24					
10				24					
30				24					
50				24					
0	N	4		24					
3				24					
5				24					
10				24					
30				24					
50				24					
0	N	5		24					
3				24					
5				24					
10				24					
30				24					
50				24					
0	N	6		24					
3				24					
5				24					
10				24					
30				24					
50				24					
0	N	7		24					
3				24					
5				24					
10				24					
30				24					
50				24					
0	N	8		24					
3				24					
5				24					
10				24					
30				24					
50				24					

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11 Adaptive Management Strategies

Include the following information on Adaptive Management Strategies as required in Section XVIII.A.6 of the MRP.

11.1 Program Assessment

This section shall summarize the most effective and least effective control measures on a watershed scale as well as receiving water quality results in comparison to RAA projections.

11.2 Control Measure Effectiveness

Assess the effect of control measures implemented within the watershed and include the following:

- Identification of the most effective control measures and a description of why the measures were effective.
- Identification of the least effective control measures and a description of why the measures were deemed ineffective.

The City of Gardena is currently exclusive of any WMP/EWMP groups and currently has no recommendations regarding the effectiveness of runoff and pollutant control measures. The City continues to implement its MS4 Permit I/C facility inspection program and made sixty-nine Industrial General Permit (IGP) non-filer referrals to the LARWQCB during the past year.

11.3 Assessment of Milestones

In years where milestones as defined in the WMP/EWMP are included within the permit year, compare data collected from the CIMP with water quality endpoints as projected in the reasonable assurance analysis. Comparison may be captured in a table similar to the one presented below.

The City of Gardena is currently exclusive of any WMP/EWMP groups and no milestone or endpoint objectives or dates have been identified.

11.4 Modifications and Changes to Control Measures

Describe changes to control measures, including the following (where applicable):

- For those control measures identified as least effective, describe how the control measures will be modified or replaced.
- Identification of significant changes to control measures during the prior year and the rationale for the changes.
- Description of all significant changes to control measures anticipated to be made in the next year and the rationale for the changes. **Those changes requiring approval of the Regional Board or its Executive Officer shall be clearly identified at the beginning of the Annual Report.**
- The status of all multi-year efforts that were not completed in the current year and will continue into the subsequent year(s).
- Description of additional BMPs, including modifications to current BMPs that will be implemented to prevent or reduce any pollutants that are causing or contributing to the exceedances of receiving water limitations.
- An implementation schedule for additional BMPs, including modifications to current BMPs that will be implemented to prevent or reduce any pollutants that are causing or contributing to the exceedances of receiving water limitations.
- Any modifications, including where appropriate, new compliance deadlines and interim milestones, with the exception of those compliance deadlines established in a TMDL, necessary to improve the effectiveness of the WMP/EWMP.

The City of Gardena is currently exclusive of any WMP/EWMP groups and currently has no recommendations regarding the effectiveness of runoff and pollutant watershed control measures (WCMS).

12 City of Gardena Confirmation of MS4 Permit Legal Enforcement Authority**CITY of GARDENA**1700 WEST 162ND STREET

GARDENA, CALIFORNIA 90247-3732

TASHA CERDA, Mayor

DAN MEDINA, Mayor Pro Tem

MARK E. HENDERSON, Councilmember

ART KASKANIAN, Councilmember

RODNEY G. TANAKA, Councilmember

PHONE (310) 217-9500

WEB SITE www.cityofgardena.org

MINA SEMENZA, City Clerk

J. INGRID TSUKIYAMA, City Treasurer

EDWARD MEDRANO, Acting City Manager

PETER L. WALLIN, City Attorney

November 30, 2017

REF: 17-109

Samuel Unger, Executive Officer
Los Angeles Regional Water Quality Control Board
320 W 4th St #200
Los Angeles, CA 90013

Subject: City of Gardena Legal Authority

Dear Mr. Unger:

I serve as City Attorney for the City of Gardena. I am aware of the following legal authority requirements specified in VI.A.2.b, of the MS4 Permit for Los Angeles County, Order No. R4-2012-01 75, NPDES Permit No. CAS004001:

Each Permittee must submit a statement certified by its chief legal counsel that the Permittee has the legal authority within its jurisdiction to implement and enforce each of the requirements contained in 40 CFR §122.26 (d)(2)(1)(A-F) and this Order. Each Permittee shall submit his certification annually as part of its Annual Report beginning with the first Annual Report required under this Order. These statements must include:

- i. Citation of applicable municipal ordinances or other appropriate legal authorities and their relationship to the requirements of 40 CFR § 122.26(d)(2)(1)(A)-(F) and of this Order; and
- ii. Identification of the local administrative and legal procedures available to mandate compliance with applicable municipal ordinances identified in subsection (i) above and therefore with the conditions of this Order, and a statement as to whether enforcement actions can be completed administratively or whether they must be commenced and completed in the Judicial System.

The City has the legal authority to require compliance with the requirements associated with 40 CFR § 122.26 (d)(2)(1)(A-F) and applicable provisions of the Order¹ per Chapter 8.70, Stormwater and Runoff Pollution Control of the Gardena Municipal Code. The City has had such legal authority since 2001.

Samuel Unger, Executive Officer
Los Angeles Regional Water Quality Control Board
November 30, 2017
Page 2

The City's Municipal Code provides for administrative, civil (including injunction) and criminal enforcement and penalties. Section 8.7.120 provides that any violation of the Chapter on Stormwater and Runoff Pollution Control is a misdemeanor, punishable by fine of up to \$1,000.00 and incarceration in the County Jail for up to six months for each violation. Each day that a violation continues is a separate offense. Violations may be deemed a public nuisance, and may also be handled by means of administrative enforcement. Restitution is provided for, as is assessment of attorney's fees and court costs in any civil enforcement actions. None of these remedies are exclusive, and the City may proceed any other remedies provided by law.

Please feel free to call or e-mail me (pwallin@ci.gardena.ca.us) if you have any questions regarding this matter.

Sincerely,



Peter L. Wallin
City Attorney

cc: Edward Medrano
Acting City Manager

⁶Generally, applies to the six core programs that make up the City's storm water quality management program including program management, development planning, development construction, illicit connection and discharge detection and elimination, public agency, and industrial and commercial inspections. These programs are carried-over from the previous permit. They are to be revised by permittees after the Regional Board has approved the watershed management program.

ATTACHMENT C –

City of Gardena SCWP MPTA FY 2020-2021 Annual Report



SAFE, CLEAN WATER MUNICIPAL REPORTING

Municipal Annual Report

REPORTING YEAR	FY20-21
MUNICIPALITY	Gardena
TOTAL SCW FUNDING RECEIVED	\$ 811,389.80
PREVIOUS YEAR CARRY OVER FUNDING	\$ 0.00
CURRENT YEAR ANTICIPATED CARRY OVER AMOUNT	\$ -215,905.01

Submitted On: 01/13/2022

Created By: Gerald Greene, DEnv, PE, QSD/P, QEP, CWE Director Stormwater
(ggreene@cwecorp.com)

REPORT OVERVIEW

ACTIVITY OVERVIEW	<p>Primary Municipal Program Activities completed during Fiscal Year 2020-21 included newly (Since November 6, 2018) implemented environmental monitoring, street sweeping or vacuum using City purchased Hi-efficiency low pollutant generating regenerative vacuum sweepers vehicles, continued Industrial General Permit Non-filer referrals to the Los Angeles Regional Water Quality Control Board (LARWQCB), along with supplemental catch basin maintenance by the Los Angeles County Department of Public Works, prevention of trash discharges in to the Gardena Willows Natural Preserve, and assessment of catch basins to accommodate the installation of Connector Pipe Screen (CPS) Full Capture Systems (FCS) in compliance with State Trash Policy and LARWQCB Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination (NPDES) Permit requirements.</p>
ACCOMPLISHMENTS	<p>Municipal Program accomplishments during Fiscal Year 2020-21 included newly (Since November 6, 2018) implemented environmental monitoring, street sweeping or vacuum using City purchased Hi-efficiency low pollutant generating regenerative vacuum sweepers vehicles, continued Industrial General Permit Non-filer referrals to the Los Angeles Regional Water Quality Control Board (LARWQCB), along with supplemental catch basin maintenance by the Los Angeles County Department of Public Works, prevention of trash discharges in to the Gardena Willows Natural Preserve, and assessment of catch basins to accommodate the installation of Connector Pipe Screen (CPS) Full Capture Systems (FCS) in compliance with State Trash Policy and LARWQCB Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination (NPDES) Permit requirements.</p>
BENEFITS REALIZED	<p>The Fiscal Year 2020-21 Safe Clean Water Program Municipal Program Transfer Agreement (SCWP MPTA) funding support arrived in February 2021, as a new Director of Public Works brought many other changes to the City. The funds were used to recover past approved expenditures and plan for new significant new projects to reduces the discharge of trash and other pollutants from the City.</p>
RUNOFF CAPTURE AND POLLUTION REDUCTION DESCRIPTION	<p>Gardena soils are relatively impervious to infiltration and the groundwater table shallow. Therefore City staff and consultants focused on treatments that reduce pollutant concentrations, such as Connector Pipe Screens and the Gardena Willows Wetland Preserve Restoration projects.</p>

ORGANIZATIONAL OVERVIEW:

- 1 OPPORTUNITIES AND ALIGNMENTS**
- 2 EXPENDITURES**
- 3 ACTIVITY SUMMARIES**
- 4 FINANCIAL & ACTIVITY RELATED DOCUMENTS**
- 5 ACTIVITY PROGRESS IMAGES**

1 OPPORTUNITIES AND ALIGNMENTS

The following discussion details opportunities for addressing additional SCW Program Goals, leveraging SCW program goals, or an increase regional capacity to supplement the SCW program.

Opportunities: Both the trash policy Full Capture System (FCS) and Connector Pipe Screen (CPS) projects represent significant new opportunities to forward the goals of the Safe Clean Water Program SCWP. The City is also tracking the joint United States Environmental Protection Agency and State Water Board Commercial Industrial, and Institutional (CII) Residual Designation Authority (RDA) process to reduce runoff and constituent loads to the watershed. During the following year we also look forward to developing a monitoring plan that better differentiates the pollutant loads from the City and its neighbors.

The following discussion details new and ongoing alignments with other local agencies or partners to increase regional capacity to supplement the SCW program.

Alignments: The City of Gardena is awaiting Los Angeles Regional Water Quality Control Board (LARWQCB) Executive Officer (EO) approval of the Dominguez Channel Watershed revised Reasonable Assurance Analysis (RAA) and revised Watershed Management Program Plan, so that new partnering opportunities with those Permittees can be determined and prioritized.

2 EXPENDITURES

This section details Municipal expenditures during this reporting year. Itemized eligible expenditures of Municipal funds for each Activity are below. The table below serves to document and demonstrate that SCW Program Municipal funds were used for eligible expenditures (Section 18.06.D2.c).

Expenditures					
Activity Name	Expenditure Name	Expenditure Description	Amount	Type	Eligible Expenditure?
FY 2020-21 Public Works Street Sweeping (Vacuuming)	FY 2020-21 Public Works Street Sweeping (Vacuuming)	The City of Gardena Public Works Department has had an effective Street Sweeping program to capture trash, leaves and similar large debris. These solids are widely recognized as binding sites for toxic metals, carcinogenic combustion by products (Polynuclear Aromatic Hydrocarbons or PAH), legacy electrical transformer oils (Polychlorinated Biphenyls or PCB), and legacy organochlorine (OC) pesticides as identified in the Harbor Toxics Total Maximum Daily Load (TMDL), which includes the Dominguez Channel that drains the City of Gardena.	\$156,734.25	Implementation (Program)	Yes

FY 2019-20 MS4 Permit Industrial/ Commercial Facility Inspections	FY 2019-20 MS4 Permit Industrial/ Commercial Facility Inspections	<p>Within the City of Gardena, there are approximately 350 commercial and 150 Industrial General Permit (IGP) facilities, with an equal number of industrial facilities being jurisdictionally located outside, but attributed to the City, in the State Stormwater Multiple Application and Report Tracking System (SMARTS). Approximately 40 IGP Non-Filer Notice of Violation (NOV) and Los Angeles Regional Water Quality Control (LARWQCB) referral were initiated. Since most of the facilities asserted that they had not received an MS4 Permit inspection, a significant effort was invested in outreach and education. Assuming a majority of the businesses are persuaded by the Board to enroll in the IGP this should result in significant source control and contribute to the attainment of LARWQCB Water Quality Objectives (WQO).</p>	\$59,076.00	Implementation (Program)	Yes
		<p>Within the City of Gardena, there are approximately 350 commercial and 150 Industrial General Permit (IGP) facilities, with an equal number of industrial facilities being jurisdictionally located outside, but attributed to the City,</p>			

FY 2020-21 MS4 Permit Industrial/ Commercial Facility Inspections	FY 2020-21 MS4 Permit Industrial/ Commercial Facility Inspections	<p>in the State Stormwater Multiple Application and Report Tracking System (SMARTS). The Dominguez Channel is reportedly impaired for metals, nutrients, oil & grease, and fecal indicator bacteria, such as Escherichia coli. Industrial and automotive facilities are reported to be potentially significant sources of trash, metals (especially copper, lead, and zinc), oils, and grease. Food Services facilities, especially their waste storage areas, may similar be sources of bacteria, oils, and grease. This program educates business owners about the importance of controlling their sources of these materials and the importance to be in compliance with the state IGP. While outreach and education is initially emphasized, enforcement measures may be instituted when warranted by site conditions. Since most of the facilities asserted that they had not received an MS4 Permit inspection, a significant effort was invested in outreach and education.</p> <p>In accordance with the March 6, 2019, LARWQCB baseline monitoring commencement approval letter, the</p>	\$20,190.00	Implementation (Program)	Yes

FY 2019-20 Environmental Monitoring Program	FY 2019-20 Environmental Monitoring Program	<p>City of Gardena collects two dry- and three wet-weather monitoring events per year, with suspended sediment samples collected at two outfall monitoring sites during two qualifying events. Aquatic toxicity sample are collected and analyzed during at least one summer dry-weather and two wet-weather events. Along with relevant meta data, analytical monitoring results were converted into California Environmental Data Exchange Network (CEDEN) style format and submitted semi-annually to the LARWQCB. The City seeks reimbursement for expenditures made in implementing this new monitoring and reporting program, initiate after the November 6, 2018, SCWP effective date. Along with expenditures for this fiscal year's monitoring efforts. Implementation of an effective Monitoring and Reporting Program (MRP) is critical to assesses the chemical, physical, and biological impacts of stormwater derived MS4 discharges on the Dominguez Channel receiving waters and, if necessary as a result of ongoing litigation, to assess compliance with Receiving Water Limitations (RWLs)</p>	\$160,703.98	Implementation (Program)	Yes
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		and Water Quality-Based Effluent Limitations (WQBELs), otherwise known as NELs to implement and assess compliance with TMDLs, wet- and dry-weather Waste Load Allocations (WLAs). This program is also expected to better characterize MS4 conveyed pollutant loads and sources.			
FY 2020-21 Gardena Willows Wetland Preserve Restoration Planning Project	Connector Pipe Screen (CPS) Catch Basin Design	As part of planning process, Connector Pipe Screens sizing developed for Catch Basins along north side of Gardena Willows Wetland Preserve.	\$6,831.00	Construction (Project)	Yes
FY 2020-21	FY 2020-21	On March 6, 2019, the City received a LARWQCB baseline monitoring commencement approval letter. In accordance with the March 6, 2019 letter, the City of Gardena collects two dry- and three wet-weather monitoring events per year, with suspended sediment samples collected at two outfall monitoring sites during two qualifying events. Aquatic toxicity sample are collected and analyzed during at least one summer dry-weather and two wet-weather events. Along with relevant meta data, analytical monitoring results were converted into California Environmental Data Exchange Network (CEDEN) style format and submitted semi-annually to the			

Environmental Monitoring Program	Environmental Monitoring Program	LARWQCB along with Annual Reports. Implementation of an effective Monitoring and Reporting Program (MRP) is critical to assesses the chemical, physical, and biological impacts of stormwater derived MS4 discharges on the Dominguez Channel receiving waters and, if necessary as a result of ongoing litigation, to assess compliance with Receiving Water Limitations (RWLs) and Water Quality-Based Effluent Limitations (WQBELs), otherwise known as NELs to implement and assess compliance with TMDLs, wet- and dry-weather Waste Load Allocations (WLAs). This program is also expected to better characterize MS4 conveyed pollutant loads and sources.	\$190,415.19	Implementation (Program)	Yes
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FY 2020-21 Catch Basin Maintenance County Charges	FY 2020-21 Catch Basin Maintenance County Charges	<p>Catch basins, particularly those with Connector Pipe Screen (CPS) Full Capture Devices (FCD), effectively remove trash, leaves, debris and some sediments, which must be periodically removed to prevent clogging, maintain capture efficacy, and prevent CPS over topping; that might allow captured material to escape. This trash and debris must then be disposed of in an environmentally responsible manner. The County has long provided these services, however has added a service fee of incrementally provided additional services such as CPS debris removal and repainting of capacity markers and pollution prevention public information and public participation messages.</p>	\$5,597.63	O&M (O&M)	Yes
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FY 2019-20 Public Works Street Sweeping (Vacuuming)	FY 2019-20 Public Works Street Sweeping (Vacuuming)	<p>The City of Gardena Public Works Department has had an effective Street Sweeping program to capture trash, leaves and similar large debris. However, the program was environmentally optimized in late 2018, by replacing the City sweeper fleet with higher air filtering efficiency vacuum units and directing staff to decrease their velocity to increase sediment and particulate capture efficiency. These solids are widely recognized as binding sites for toxic metals, carcinogenic combustion by products (Polynuclear Aromatic Hydrocarbons or PAH), legacy electrical transformer oils (Polychlorinated Biphenyls or PCB), and legacy organochlorine (OC) pesticides as identified in the Harbor Toxics Total Maximum Daily Load (TMDL), which includes the Dominguez Channel that drains the City of Gardena.</p>	\$143,669.04	Implementation (Program)	Yes
		<p>The City of Gardena Public Works Department has had an effective Street Sweeping program to capture trash, leaves and similar large debris. However, the program was environmentally optimized, in late</p>			

November 6, 2018, to June 30, 2019, Public Works Street Sweeping (Vacuuming)	November 6, 2018, to June 30, 2019, Public Works Street Sweeping (Vacuuming)	2018, by replacing the City sweeper fleet with higher air filtering efficiency vacuum units and directing staff to decrease their velocity to increase sediment and particulate capture efficiency. These solids are widely recognized as binding sites for toxic metals, carcinogenic combustion by products (Polynuclear Aromatic Hydrocarbons or PAH), legacy electrical transformer oils (Polychlorinated Biphenyls or PCB), and legacy organochlorine (OC) pesticides as identified in the Harbor Toxics Total Maximum Daily Load (TMDL), which includes the Dominguez Channel that drains the City of Gardena. Major arteries in the City of Gardena are swept twice a week, while secondary roads, residential areas, ramps, and bike lanes are swept once per week, totaling approximately 113 street miles or 226 curb miles of City streets swept per week.	\$85,751.17	Implementation (Program)	Yes
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November 6, 2018, to June 30, 2019, MS4 Permit Industrial/Commercial Facility Inspections	November 6, 2018, to June 30, 2019, MS4P Industrial/Commercial Facility Inspections	Los Angeles Regional Water Quality Control Board (LARWQCB) Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permits require implementation of an Industrial/Commercial Facility Program with site inspections, database tracking, educational outreach, State Stormwater Industrial General Permit (IGP) enrollment, when warranted based on activities, State Senate Bill 205 IGP enrollment verification, and enforcement actions when necessary.	\$35,209.00	Implementation (Program)	Yes
November 6, 2018, to June 30, 2019, NPDES Permit	November 6, 2018, to June 30, 2019, NPDES Permit	Each public entity that owns and/or operates part of a storm water conveyance system and is subject to a municipal separate storm sewer system (MS4) NPDES permit, shall pay an annual fee based on population according to the most recently published United States Census. The City of Gardena is typically invoiced in December of the Fiscal Year.	\$21,344.00	Implementation (Program)	Yes
		During the summer of 2018, following several management changes, the City of Gardena MS4 NPDES Permit Water and Sediment Quality Monitoring Program was assessed and found to be			

November 6, 2018, to June 30, 2019, Environmental Monitoring Program	November 6, 2018, to June 30, 2019, Environmental Monitoring Program	<p>inadequate. Following voter approval of Measure W on November 6, 2018, City of Gardena staff authorized collection of its first compliant wet-weather storm event on November 22, 2018. Subsequently, the City received a baseline monitoring commencement approval letter, dated March 6, 2019, from the LARWQCB and completed its first successful season of monitoring on June 10, 2019. The City seeks reimbursement for expenditures made in implementing this new monitoring and reporting program, initiate after the November 6, 2018, SCWP effective date. Along with expenditures for this fiscal year's monitoring efforts. Implementation of an effective Monitoring and Reporting Program (MRP) is critical to assesses the chemical, physical, and biological impacts of stormwater derived MS4 discharges on the Dominguez Channel receiving waters and, if necessary as a result of ongoing litigation, to assess compliance with Receiving Water Limitations (RWLs) and Water Quality-Based Effluent Limitations (WQBELs), otherwise known as NELs to</p>	\$103,573.30	Implementation (Program)	Yes
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		implement and assess compliance with TMDLs, wet- and dry-weather Waste Load Allocations (WLAs). This program is also expected to better characterize MS4 conveyed pollutant loads and sources.			
FY 2020-21 NPDES Permit	FY 2020-21 NPDES Permit	Each public entity that owns and/or operates part of a storm water conveyance system and is subject to a municipal separate storm sewer system (MS4) NPDES permit, shall pay an annual fee based on population according to the most recently published United States Census. The City of Gardena is typically invoiced in December of the Fiscal Year.	\$16,856.25	Implementation (Program)	Yes
FY 2019-20 NPDES Permit	FY 2019-20 NPDES Permit	Each public entity that owns and/or operates part of a storm water conveyance system and is subject to a municipal separate storm sewer system (MS4) NPDES permit, shall pay an annual fee based on population according to the most recently published United States Census. The City of Gardena is typically invoiced in December of the Fiscal Year.	\$21,344.00	Implementation (Program)	Yes

3 ACTIVITY SUMMARIES

The following table lists Activities and their details from this reporting period.

Municipal Activities				
Activity Name	New or Existing	Type	Status	Estimated Total Cost
FY 2019-20 Environmental Monitoring Program	New	Program	In Progress	N/A
FY 2019-20 MS4 Permit Industrial/ Commercial Facility Inspections	New	Program	In Progress	N/A
FY 2019-20 NPDES Permit	Existing	Program	In Progress	N/A
FY 2019-20 Public Works Street Sweeping (Vacuuming)	New	Program	In Progress	N/A
FY 2020-21 Catch Basin Maintenance County Charges	New	O&M	In Progress	N/A
FY 2020-21 Environmental Monitoring Program	New	Program	In Progress	N/A
FY 2020-21 Gardena Willows Wetland Preserve Restoration Planning Project	New	Project	In Progress	N/A
FY 2020-21 MS4 Permit Industrial/ Commercial Facility Inspections	New	Program	In Progress	N/A
FY 2020-21 NPDES Permit	Existing	Program	In Progress	N/A
FY 2020-21 Public Works Street Sweeping (Vacuuming)	New	Program	In Progress	N/A
November 6, 2018, to June 30, 2019, NPDES Permit	Existing	Program	In Progress	N/A
November 6, 2018, to June 30, 2019, Environmental Monitoring Program	New	Program	In Progress	N/A
November 6, 2018, to June 30, 2019, MS4 Permit Industrial/ Commercial Facility Inspections	New	Program	In Progress	N/A
November 6, 2018, to June 30, 2019, Public Works Street Sweeping (Vacuuming)	New	Program	In Progress	N/A

4 FINANCIAL & ACTIVITY RELATED DOCUMENTS

The following documents are supplemental to the above information.

Attachments for this Section	
Attachment Name	Description
22-01-13 FY 2020-21 MPTA Budget Summary.pdf	Includes Pre July 1, 2020 Allowable Expenditures to be Recovered in Future Years from 30% MPTA Prior Support

Attachments are bundled and organized at the end of this document after activities, with cover pages between each subsection.

5 ACTIVITY PROGRESS IMAGES

The following images illustrate Activity progress.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

No images provided

Municipal Activity Reports

ACTIVITY OVERVIEW (1 of 15)

ACTIVITY NAME	FY 2019-20 Environmental Monitoring Program
NEW OR EXISTING	New
ACTIVITY TYPE	Program
STATUS	In Progress
Annual Plan Amount	\$ 117,113.38
Annual Expense Total	\$ 160,703.98

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS
ACTIVITY SCHEDULE
ACTIVITY GOALS
ACTIVITY METRICS
ACTIVITY ADDITIONAL METRICS
ADDITIONAL DOCUMENTS

ACTIVITY DETAILS

The following table summarizes general information about this Activity.

Latitude, Longitude	33.871, -118.2905
Activity Description	Collect water quality and sediment samples at the Dominguez Channel and City stormwater outfalls for NPDES MS4 Permit compliance
Activity Background	<p>During the summer of 2018, following several management changes, the City of Gardena MS4 NPDES Permit Water and Sediment Quality Monitoring Program was assessed and found to consist of few analytes, poor detection limits, distant sampling locations, no field logs, or photographs; nor were any of these components available from the prior consultant. Following voter approval of Measure W on November 6, 2018, City of Gardena staff authorized collection of its first compliant wet-weather storm event on November 22, 2018. Subsequently, the City received a baseline monitoring commencement approval letter, dated March 6, 2019, from the LARWQCB and completed its first successful season of monitoring on June 10, 2019. In accordance with the March 6, 2019 letter, the City of Gardena collects two dry- and three wet-weather monitoring events per year, with suspended sediment samples collected at two outfall monitoring sites during two qualifying events. Aquatic toxicity sample are collected and analyzed during at least one summer dry-weather and two wet-weather events. During May 2019, an outfall inventory of open channel areas within the City of Gardena was completed and an observational database developed. Non-stormwater outfall screening occurred on June 7, 10, and 25, 2019, during which no significant discharges were observed, nor samples collected. Along with relevant meta data, analytical monitoring results were converted into California Environmental Data Exchange Network (CEDEN) style format and submitted semi-annually to the LARWQCB along with Annual Reports.</p> <p>The City seeks reimbursement for expenditures made in implementing this new monitoring and reporting program, initiate after the November 6, 2018, SCWP effective date. Along with expenditures for this fiscal year's monitoring efforts. Implementation of an effective Monitoring and Reporting Program (MRP) is critical to assesses the chemical, physical, and biological impacts of stormwater derived MS4 discharges on the Dominguez Channel receiving waters and, if necessary as a result of ongoing litigation, to assess compliance with Receiving Water Limitations (RWLs) and Water Quality-Based Effluent Limitations (WQBELs), otherwise known as NELs to implement and assess compliance with TMDLs, wet- and dry-weather Waste Load Allocations (WLAs). This program is also expected to better characterize MS4 conveyed pollutant loads and sources.</p>

Description of Progress	<p>In accordance with the March 6, 2019, LARWQCB baseline monitoring commencement approval letter, the City of Gardena collects two dry- and three wet-weather monitoring events per year, with suspended sediment samples collected at two outfall monitoring sites during two qualifying events. Aquatic toxicity sample are collected and analyzed during at least one summer dry-weather and two wet-weather events. Along with relevant meta data, analytical monitoring results were converted into California Environmental Data Exchange Network (CEDEN) style format and submitted semi-annually to the LARWQCB. The City seeks reimbursement for expenditures made in implementing this new monitoring and reporting program, initiate after the November 6, 2018, SCWP effective date. Along with expenditures for this fiscal year's monitoring efforts. Implementation of an effective Monitoring and Reporting Program (MRP) is critical to assesses the chemical, physical, and biological impacts of stormwater derived MS4 discharges on the Dominguez Channel receiving waters and, if necessary as a result of ongoing litigation, to assess compliance with Receiving Water Limitations (RWLs) and Water Quality-Based Effluent Limitations (WQBELs), otherwise known as NELs to implement and assess compliance with TMDLs, wet- and dry-weather Waste Load Allocations (WLAs). This program is also expected to better characterize MS4 conveyed pollutant loads and sources.</p>
Were there Delays?	N/A
Description of Delays	N/A
Highlights and Accomplishments	The required environmental monitoring was completed and submitted to the LARWQCB.
Gaps and Lessons Learned	Safe Clean Water Program (SCWP) Municipal Program Transfer Agreement (MPTA) support was not received until February 2, 2021, necessitating a reimbursement request for this nearly implemented program.

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown	
Watershed Name	Benefit Percent
South Santa Monica Bay	100

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
FY 2019-20 Environmental Monitoring Program	Completed	06/30/20	Yes

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of water-quality requirements?

Environmental (sediment and water quality) monitoring contributes to the attainment of Los Angeles Regional Water Quality Control Board (LARWQCB) Basin Plan Water Quality Objectives (WQO), by guiding the Dominguez Watershed Municipal Separate Storm Sewer System (MS4) National Pollutant Discharges Elimination System (NPDES) Permittees and the City of Gardena in particularly about how best to prioritize and apply limited fiscal resources towards the control of stormwater and urban runoff and the constituent or pollutants that it may contain. As an example, monitoring has shown lower suspended sediment concentrations at the FS3 (Rosecrans) outfall, as compared to FS4 (Normandie) outfall, and that laterally moving groundwater, from Los Angeles County Artesia Park and Golf course, may result in lake overflows, for several days following a storm, that alter downstream benign water quality characteristics, such as Total Dissolved Solids (TDS), Chloride, Sulfate, Algae, Specific Electrical Conductivity, and Turbidity.

D. Does this project leverage other funding sources to maximize SCW Program Goals?

Yes, the City of Gardena Environmental Monitoring Program contributed financial support to the South Bay Council of Governments (SB COG), which along with other Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permittees, is supporting Dominguez Channel Estuary sediment, fish tissue, and benthic organism monitoring as required by the Los Angeles Regional Water Quality Control Board (LARWQCB) Los Angeles and Long Beach Harbors Toxics Total Maximum Daily Load (TMDL) Basin Plan Amendment.

H. Does this project encourage innovation and adoption of new technologies and practices.?

The City of Gardena utilizes an innovative mobile upflow clarifier system to capture and assess suspended solids stormwater outfall loads.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

Contamination within Los Angeles and Long Beach Harbor sediments is non-homogeneous with respect to both location and depth. Furthermore, the impacts of this contamination are not uniform and various characteristics measured may provide conflicting indications of impairment intensity. Therefore, the monitoring program is intended to be iterative and adaptive in integrating remediation efforts with monitoring data and assessments.

M. Does this project promote green jobs and career pathways?

Yes, environmental monitoring is a gateway green job and career pathway that supports individuals in providing a range of future environmental assessment, compliance, and engineering design services.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
Volume of stormwater captured and reused	0 ac-ft	0 ac-ft	The City of Gardena environmental (water quality) monitoring program captures and reuses minimal to no stormwater.
Volume of stormwater captured and treated	0 ac-ft	0 ac-ft	The City of Gardena environmental (water quality) monitoring program captures minimal volumes of stormwater and does not provide treatment.
Volume of stormwater captured and recharged to a managed aquifer	0 ac-ft	0 ac-ft	The City of Gardena environmental (water quality) monitoring program captures and recharges little to no stormwater to a managed aquifer.

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion

Dry and Wet Weather, Stormwater Outfall and Receiving Water Quality concentrations.	The collection and subsequent analysis of dry and wet weather, stormwater outfall and receiving water quality concentrations, allows water quality comparisons against Los Angeles Regional Water Quality Control Board (LARWQCB) Basin Plan Water Quality Objectives (WQO).	A. Improve water quality and contribute to attainment of water-quality requirements. D. Leverage other funding sources to maximize SCW Program Goals. H. Encourage innovation and adoption of new technologies and practices. L. Implement an iterative planning/evaluation process to ensure adaptive management M. Promote green jobs and career pathways.	N/A Varies by constituent or pollutant, generally expressible as micrograms/liter.	N/A Varies by constituent or pollutant, generally expressible as micrograms/liter.	N/A
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ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

Below are the project images.

No images provided



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

**Project Vector Minimization
Documents**

Municipal Activity Reports

ACTIVITY OVERVIEW (2 of 15)

ACTIVITY NAME	FY 2019-20 MS4 Permit Industrial/ Commercial Facility Inspections
NEW OR EXISTING	New
ACTIVITY TYPE	Program
STATUS	In Progress
Annual Plan Amount	\$ 68,576.00
Annual Expense Total	\$ 59,076.00

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS
ACTIVITY SCHEDULE
ACTIVITY GOALS
ACTIVITY METRICS
ACTIVITY ADDITIONAL METRICS
ADDITIONAL DOCUMENTS

ACTIVITY DETAILS

The following table summarizes general information about this Activity.

Latitude, Longitude	33.8827, -118.307
Activity Description	LARWQCB MS4 Permits require Industrial/Commercial Facility inspections, tracking, outreach, and IGP coverage to control runoff discharges.
Activity Background	Los Angeles Regional Water Quality Control Board (LARWQCB) Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permits require implementation of an Industrial/Commercial Facility Program with site inspections, database tracking, educational outreach, State Stormwater Industrial General Permit (IGP) enrollment, when warranted based on activities, State Senate Bill 205 IGP enrollment verification, and enforcement actions when necessary.
Description of Progress	Within the City of Gardena, there are approximately 350 commercial and 150 Industrial General Permit (IGP) facilities, with an equal number of industrial facilities being jurisdictionally located outside, but attributed to the City, in the State Stormwater Multiple Application and Report Tracking System (SMARTS). Approximately 40 IGP Non-Filer Notice of Violation (NOV) and Los Angeles Regional Water Quality Control (LARWQCB) referral were initiated. Since most of the facilities asserted that they had not received an MS4 Permit inspection, a significant effort was invested in outreach and education. Assuming a majority of the businesses are persuaded by the Board to enroll in the IGP this should result in significant source control and contribute to the attainment of LARWQCB Water Quality Objectives (WQO).
Were there Delays?	N/A
Description of Delays	N/A
Highlights and Accomplishments	After prior outreach and educational efforts, approximately 40 Industrial General Permit (IGP) Non-filers were issued City Notices of Violation (NOV) and referred to the Los Angeles Regional Water Quality Control Board (LARWQCB) for further enforcement actions by the Stormwater Compliance Unit.

Gaps and Lessons
Learned

IGP Non-filer enrollment is a slow process.

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown	
Watershed Name	Benefit Percent
South Santa Monica Bay	100

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
FY 2019-20 MS4 Permit Industrial/Commercial Facility Inspections	Implementation	06/30/20	Yes

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of water-quality requirements?

Within the City of Gardena, there are approximately 350 commercial and 150 Industrial General Permit (IGP) facilities, with an equal number of industrial facilities being jurisdictionally located outside, but attributed to the City, in the State Stormwater Multiple Application and Report Tracking System (SMARTS). In November 2018, the City contracted for new inspections and for a new tracking database to be developed. Approximately 150 IGP, 70 automotive, and 50 food service inspection were undertaken. Approximately 40 IGP Non-Filer Notice of Violation (NOV) and Los Angeles Regional Water Quality Control (LARWQCB) referral were initiated. Since most of the facilities asserted that they had not received an MS4 Permit inspection, a significant effort was invested in outreach and education. Assuming a majority of the businesses are persuaded by the Board to enroll in the IGP this should result in significant source control and contribute to the attainment of LARWQCB Water Quality Objectives (WQO).

D. Does this project leverage other funding sources to maximize SCW Program Goals?

This program filters and prioritizes State and Regional Water Board enforcement activities on the most recalcitrant facilities, leveraging state enforcement actions to the most problematic locations.

H. Does this project encourage innovation and adoption of new technologies and practices.?

Since many of the industrial and commercial facilities were unfamiliar with practices to reduce runoff constituent or pollutant discharges, the City anticipates that this new effort will result in the significant adoption of new Best Management Practices (BMPS) and technologies by these facilities.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

The Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permit Industrial/Commercial Facilities Program is intended to be an iterative and adaptive program. During the first year, its emphasis was on business outreach regarding the inspection requirement and IGP enrollment. During the second year, the program emphasis shifted to IGP non-filer enrollment and automotive facility inspections.

M. Does this project promote green jobs and career pathways?

Industrial/Commercial facilities may employ specialty service providers to clean the facilities and prepare compliance documents. Some larger site utilize specialty Best Management Practices (BMPs) to treat and remove contaminants from runoff. Industrial/Commercial Inspectors is generally considered to be a green job and career pathway.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
Volume of stormwater captured and reused	0 ac-ft	0 ac-ft	The City Industrial/Commercial Facilities Program takes credit for capturing or reusing very little stormwater runoff.
Volume of stormwater captured and treated	0 ac-ft	0 ac-ft	The City Industrial/Commercial Facilities Program takes credit for capturing or treating very little stormwater runoff.
Volume of stormwater captured and recharged to a managed aquifer	0 ac-ft	0 ac-ft	The City Industrial/Commercial Facilities Program takes credit for capturing or recharging very little stormwater to a managed aquifer.

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion

Industrial and Commercial Inspections and LARWQCB IGP Referrals	<p>Approximately 150 Industrial, 70 automotive, and 50 restaurant inspections were undertaken during the reporting year.</p> <p>Approximately 45 Industrial General Permit (IGP) Non-filer referrals were made to the Los Angeles Regional Water Quality Control Board (LARWQCB).</p>	<p>A. Improve water quality and contribute to attainment of water-quality requirements.</p> <p>D. Leverage other funding sources to maximize SCW Program Goals.</p> <p>H. Encourage innovation and adoption of new technologies and practices.</p> <p>L. Implement an iterative planning/evaluation process to ensure adaptive management.</p> <p>M. Promote green jobs and career pathways.</p>	N/A Inspections and referrals	N/A Inspections and referrals	N/A
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ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

Below are the project images.

No images provided



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

**Project Vector Minimization
Documents**

Municipal Activity Reports

ACTIVITY OVERVIEW (3 of 15)

ACTIVITY NAME	FY 2019-20 NPDES Permit
NEW OR EXISTING	Existing
ACTIVITY TYPE	Program
STATUS	In Progress
Annual Plan Amount	\$ 16,856.25
Annual Expense Total	\$ 21,344.00

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

- ACTIVITY DETAILS**
- ACTIVITY SCHEDULE**
- ACTIVITY GOALS**
- ACTIVITY METRICS**
- ACTIVITY ADDITIONAL METRICS**
- ADDITIONAL DOCUMENTS**

ACTIVITY DETAILS

The following table summarizes general information about this Activity.

Latitude, Longitude	33.8827, -118.307
Activity Description	State requires Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permittees pay permit fee
Activity Background	Each public entity that owns and/or operates part of a storm water conveyance system and is subject to a municipal separate storm sewer system (MS4) NPDES permit, shall pay an annual fee based on population according to the most recently published United States Census. The City of Gardena is typically invoiced in December of the Fiscal Year.
Description of Progress	Each public entity that owns and/or operates part of a storm water conveyance system and is subject to a municipal separate storm sewer system (MS4) NPDES permit, shall pay an annual fee based on population according to the most recently published United States Census. The City of Gardena is typically invoiced in December of the Fiscal Year.
Were there Delays?	N/A
Description of Delays	N/A
Highlights and Accomplishments	The State Water Resources Control Board (SWRCB) Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permit Fee was paid in a timely manor.
Gaps and Lessons Learned	Safe Clean Water Program (SCWP) Municipal Program Transfer Agreement (MPTA) support was first received on February 2, 2021, so that recovery of this expenditure was necessary.

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown	
Watershed Name	Benefit Percent
South Santa Monica Bay	100

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
FY 2019-20 NPDES Permit	Implementation	06/30/20	Yes

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

M. Does this project promote green jobs and career pathways?

The State Water Resources Control Board (SWRCB) Water Quality Fee, paid by Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permittees, supports state green jobs and provides secure good paying careers with excellent benefits.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion
State Water Resources Control Board (SWRCB) Water Quality Discharge Permit Fee.	Assesses whether the Permittee has paid its fee to the State to provide professional green jobs and develop good paying, high benefit, career pathways.	M. Promote green jobs and career pathways.	0 \$	0 \$	Yes, the fee was paid.

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

Below are the project images.

No images provided



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

**Project Vector Minimization
Documents**

Municipal Activity Reports

ACTIVITY OVERVIEW (4 of 15)

ACTIVITY NAME	FY 2019-20 Public Works Street Sweeping (Vacuuming)
NEW OR EXISTING	New
ACTIVITY TYPE	Program
STATUS	In Progress
Annual Plan Amount	\$ 130,480.07
Annual Expense Total	\$ 143,669.04

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS
ACTIVITY SCHEDULE
ACTIVITY GOALS
ACTIVITY METRICS
ACTIVITY ADDITIONAL METRICS
ADDITIONAL DOCUMENTS

ACTIVITY DETAILS

The following table summarizes general information about this Activity.

Latitude, Longitude	33.8827, -118.307
Activity Description	City Public Works staff and vehicles vacuum public streets as a source control for trash, vegetation (nutrients), metals, and sediments.
Activity Background	<p>The City of Gardena Public Works Department has had an effective Street Sweeping program to capture trash, leaves and similar large debris. However, the program was environmentally optimized, beginning in 2019, by replacing the City sweeper fleet with higher air filtering efficiency vacuum units and directing staff to decrease their velocity to increase sediment and particulate capture efficiency. These solids are widely recognized as binding sites for toxic metals, carcinogenic combustion by products (Polynuclear Aromatic Hydrocarbons or PAH), legacy electrical transformer oils (Polychlorinated Biphenyls or PCB), and legacy organochlorine (OC) pesticides as identified in the Harbor Toxics Total Maximum Daily Load (TMDL), which includes the Dominguez Channel that drains the City of Gardena. Major arteries in the City of Gardena are swept twice a week, while secondary roads, residential areas, ramps, and bike lanes are swept once per week, totaling approximately 113 street miles or 226 curb miles of City streets swept per week.</p>

Description of Progress	The City of Gardena Public Works Department has had an effective Street Sweeping program to capture trash, leaves and similar large debris. However, the program was environmentally optimized in late 2018, by replacing the City sweeper fleet with higher air filtering efficiency vacuum units and directing staff to decrease their velocity to increase sediment and particulate capture efficiency. These solids are widely recognized as binding sites for toxic metals, carcinogenic combustion by products (Polynuclear Aromatic Hydrocarbons or PAH), legacy electrical transformer oils (Polychlorinated Biphenyls or PCB), and legacy organochlorine (OC) pesticides as identified in the Harbor Toxics Total Maximum Daily Load (TMDL), which includes the Dominguez Channel that drains the City of Gardena.
Were there Delays?	N/A
Description of Delays	N/A
Highlights and Accomplishments	Major arteries in the City of Gardena are swept twice a week, while secondary roads, residential areas, ramps, and bike lanes are swept once per week, totaling approximately 113 street miles or 226 curb miles of City streets swept per week.
Gaps and Lessons Learned	Ticket revenues drop when parking enforcement is terminated due to a pandemic and stay at home orders are issued.

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown	
Watershed Name	Benefit Percent
South Santa Monica Bay	100

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
None provided	N/A	N/A	N/A

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of water-quality requirements?

Solids collected by the City's street sweeping activities are widely recognized as binding sites for toxic metals and legacy organics identified in the Harbor Toxics Total Maximum Daily Load (TMDL), which includes the Dominguez Channel that drains the City of Gardena. Major arteries in the City of Gardena are swept twice a week, while secondary roads, residential areas, ramps, and bike lanes are swept once per week, totaling approximately 113 linear miles and 226 curb miles of City streets swept per week.

M. Does this project promote green jobs and career pathways?

The City of Gardena provides green Public Works jobs as vacuum truck drivers and parking enforcement officers, introducing entry level staff to future environmental career pathway opportunities.

N. Does this project ensure ongoing operations and maintenance for Projects?

Street sweepers and vacuum trucks are the first line of defense in capturing trash, leaves, debris, and sediments, which ensure extended operations and reduce maintenance needs for other water quality protection projects including catch basin debris removal, Connector Pipe Screen (CPS) cleaning and sediment removal from the Dominguez Estuary and Long Beach and Los Angeles Harbors.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
Volume of stormwater captured and recharged to a managed aquifer	0 ac-ft	0 ac-ft	The City Street Vacuuming Program does not capture or recharge stormwater to a managed aquifer.
Volume of stormwater captured and reused	0 ac-ft	0 ac-ft	The City Street Vacuuming Program does not capture or reuse stormwater runoff.
Volume of stormwater captured and treated	0 ac-ft	0 ac-ft	The City Street Vacuuming Program does not capture or treat stormwater runoff.

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion

Curb miles swept	City of Gardena Public Works Street Maintenance crews street vacuum the approximately 226 curb miles weekly and may come more weekly when needed.	A. Improve water quality and contribute to attainment of water-quality requirements. M. Promote green jobs and career pathways. N. Ensure ongoing operations and maintenance for Projects.	N/A Miles swept	N/A Miles swept	N/A
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ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

Below are the project images.

No images provided



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

**Project Vector Minimization
Documents**

Municipal Activity Reports

ACTIVITY OVERVIEW (1 of 51)

ACTIVITY NAME	FY 2020-21 Catch Basin Maintenance County Charges
NEW OR EXISTING	New
ACTIVITY TYPE	O&M
STATUS	In Progress
Annual Plan Amount	\$ 5,597.63
Annual Expense Total	\$ 5,597.63

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

- ACTIVITY DETAILS**
- ACTIVITY SCHEDULE**
- ACTIVITY GOALS**
- ACTIVITY METRICS**
- ACTIVITY ADDITIONAL METRICS**
- ADDITIONAL DOCUMENTS**

ACTIVITY DETAILS

The following table summarizes general information about this Activity.

Latitude, Longitude	33.883759, -118.307906
Activity Description	Gardena partially reimburses Los Angeles County for maintenance and cleaning of the 860 catch basins owned by both agencies within the City.
Activity Background	Catch basins, particularly those with Connector Pipe Screen (CPS) Full Capture Devices (FCD), effectively remove trash, leaves, debris and some sediments, which must be periodically removed to prevent clogging, maintain capture efficacy, and prevent CPS over topping; that might allow captured material to escape. This trash and debris must then be disposed of in an environmentally responsible manner. The County has long provided these services, however has added a service fee of incrementally provided additional services such as CPS debris removal and repainting of capacity markers and pollution prevention public information and public participation messages.
Description of Progress	Catch basins, particularly those with Connector Pipe Screen (CPS) Full Capture Devices (FCD), effectively remove trash, leaves, debris and some sediments, which must be periodically removed to prevent clogging, maintain capture efficacy, and prevent CPS over topping; that might allow captured material to escape. This trash and debris must then be disposed of in an environmentally responsible manner. The County has long provided these services, however has added a service fee of incrementally provided additional services such as CPS debris removal and repainting of capacity markers and pollution prevention public information and public participation messages.
Were there Delays?	N/A

Description of Delays	N/A
Highlights and Accomplishments	The Los Angeles County Department of Public Works provided maintenance services to some proportion of the 860 catch basins reported to be in the City of Gardena
Gaps and Lessons Learned	Be sure to ask for any summary reports before paying the invoice.

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown	
Watershed Name	Benefit Percent
South Santa Monica Bay	100

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
Catch Basin Maintenance	Implementation (On going)	06/30/21	Yes

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of water-quality requirements?

By removing the trash, vegetative debris, and sediment, which could contribute elevated loads of nutrients, metals, and bacteria, this project would improve downstream water quality and contribute to attainment of water quality requirements.

M. Does this project promote green jobs and career pathways?

The Los Angeles County Department of Public Works provides entry level green jobs including maintaining catch basin and storm drainage facilities that become career pathways leading to Supervisorial positions.

N. Does this project ensure ongoing operations and maintenance for Projects?

Removing trash, debris, vegetation, and sediments from catch basins, especially those with Connector Pipe Screen (CPS) Full Capture System or Devices (FCS or FCD) reduces operational and maintenance challenges in the storm drainage system, including the removal of sediments from the Dominguez Estuary and Long Beach and Los Angeles Harbors.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
Volume of stormwater captured and treated	0 ac-ft	0 ac-ft	The Los Angeles County Department of Public Works Catch Basin Maintenance Program is not expected to capture or treat, beyond course filtering, stormwater runoff.
Volume of stormwater captured and recharged to a managed aquifer	0 ac-ft	0 ac-ft	The Los Angeles County Department of Public Works Catch Basin Maintenance Program is not expected to capture or recharge to a managed aquifer stormwater runoff.

Volume of stormwater captured and reused	0 ac-ft	0 ac-ft	The Los Angeles County Department of Public Works Catch Basin Maintenance Program is not expected to capture or reuse stormwater runoff.
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ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion
Number of Catch Basins Cleaned	Number of catch basins cleaned will help the city assess the pollutant load being prevented from entering the City's MS4.	A. Improve water quality and contribute to attainment of water-quality requirements	0 Catch Basins Cleaned (#)	0 Catch Basins Cleaned (#)	Data was unavailable following invoice payment.
Number of Catch Basins Inspected	Number of catch basins inspected will help the city assess the pollutant load being prevented from entering the City's MS4.	A. Improve water quality and contribute to attainment of water-quality requirements	0 Catch Basins Inspected (#)	0 Catch Basins Inspected (#)	Data was unavailable following invoice payment.

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

Below are the project images.

No images provided



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

**Project Vector Minimization
Documents**

Municipal Activity Reports

ACTIVITY OVERVIEW (6 of 15)

ACTIVITY NAME	FY 2020129 Environ- ental Monitorinmgromra-
NEP WR EOXTINS	NeG
ACTIVITY TYgE	gromra-
XTATwX	In gromress
Annual glan A- ount	U9\$7,73. 8x
Annual E6pense Total	U9\$0,f 938\$

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS
ACTIVITY SCHEDULE
ACTIVITY GOALS
ACTIVITY METRICS
ACTIVITY ADDITIONAL METRICS
ADDITIONAL DOCUMENTS

ACTIVITY DETAILS

The following table summarizes general information about this Activity.

Activity Name	DD87. 9, 19972\$03
Activity Description	Collect Gater huality an5 se5i- ent sa- ples at tze q o- inmie4 Czannel an5 City stor- Gater outfalls lor Ngq EX MXf ger- it co- pliance
Activity Background	<p>q urinmtze su- - er oL2097, lolloGinmseveral - aname- ent czanmes, tze City oLSar5ena MXf Ngq EX ger- it P ater an5 Xe5i- ent Quality Monitorinmgromra- Gas assesse5 an5 loun5 to consist oLLeG analytes, poor 5etection li- its, 5istant sa- plinm locations, no liel5 loms, or pzotomrapzs; nor Gere any oLtzese co- ponents available lro- tze prior consultant8 FolloGinmvoter approval oLMeasure P on Nove- ber x, 2097, City oLSar5ena stall autzori4e5 collection oLits lirst co- pliant Get1Geatzer stor- event on Nove- ber 22, 20978 Xubsehuently, tze City receive5 a baseline - onitorinmco- - ence- ent approval letter, 5ate5 Marcz x, 209\$, lro- tze dARP QCB an5 co- plete5 its lirst successwl season oL - onitorinmon June 90, 209\$8 In accor5ance Gitz tze Marcz x, 209\$ letter, tze City oLSar5ena collects tGo 5ry1an5 tzree Get1 Geatzer - onitorinmevents per year, Gitz suspen5e5 se5i- ent sa- ples collecte5 at tGo outfall - onitorinmsites 5urinmtGo hualilyinmevents8 Ahuatic to6icity sa- ple are collecte5 an5 analy4e5 5urinmat least one su- - er 5ry1Geatzer an5 tGo Get1 Geatzer events8 q urinmMay 209\$, an outfall inventory oLopen czannel areas Gitzin tze City oLSar5ena Gas co- plete5 an5 an observational 5atabase 5evelope58 Non1stor- Gater outfall screeninmoccurre5 on June . , 90, an5 23, 209\$, 5urinmGzicz no similicant 5isczarmes Gere observe5, nor sa- ples collecte58 Alonm Gitz relevant - eta 5ata, analytical - onitorinmresults Gere converte5 into California Environ- ental qata E6czanme NetGork (CEq EN) style lor- at an5 sub- itte5 se- i1annually to tze dARP QCB alonmGitz Annual Reports8</p> <p>Tze City seeks rei- burse- ent lor e6pen5itures - a5e in i- ple- entinmtzis neG - onitorinman5 reportinmpromra- , initiate alter tze Nove- ber x, 2097, XCP g eLlective 5ate8 AlonmGitz e6pen5itures lor tzis liscal year's - onitorinmeLlorts8 I- ple- entation oLan eLlective Monitorinman5 Reportinmgromra- (MRg) is critical to assesses tze cze- ical, pzysical, an5 biological i- pacts oLstor- Gater 5erive5 MXf 5isczarmes on tze q o- inmie4 Czannel receivinmGaters an5, iLnecessary as a result oLonmoinm litiation, to assess co- pliance Gitz ReceivinmP ater di- itations (RP ds) an5 P ater Quality1Base5 ELluent di- itations (P QBEs), otzerGise knoGn as NEds to i- ple- ent an5 assess co- pliance Gitz TMq ds, Get1an5 5ry1Geatzer P aste doa5 Allocations (P dAs)8 Tzis promra- is also e6pecte5 to better czaracteri4e MXf conveye5 pollutant loa5s an5 sources8</p>

<p>q escription oL gromress</p>	<p>Wh Marcz x, 209\$, tze City receive5 a dARP QCB baseline - onitorinmco- - ence- ent approval letter8 In accor5ance Gitz tze Marcz x, 209\$ letter, tze City oLSar5ena collects tGo 5ry1an5 tzree Get1Geatzer - onitorinmevents per year, Gitz suspen5e5 se5i- ent sa- ples collecte5 at tGo outlall - onitorinmsites 5urinm tGo hualilyinmevents8 Ahuatic to6icity sa- ple are collecte5 an5 analy4e5 5urinmat least one su- - er 5ry1Geatzer an5 tGo Get1 Geatzer events8 AlonmGitz relevant - eta 5ata, analytical - onitorinmresults Gere converte5 into California Environ- ental q ata E6czanme NetGork (CEq EN) style lor- at an5 sub- itte5 se- i1 annually to tze dARP QCB alonmGitz Annual Reports8</p> <p>I- ple- entation oLan eLlective Monitorinman5 Reportinmgromra- (MRg) is critical to assesses tze cze- ical, pzyical, an5 biological i- pacts oLstor- Gater 5erive5 MXf 5isczarmes on tze qo- innue4 Czannel receivinmGaters an5, iLnecessary as a result oLonmoinm litimation, to assess co- pliance Gitz ReceivinmP ater di- itations (RP ds) an5 P ater Quality1Base5 Elluent di- itations (P QBEds), otzerGise knoGn as NEds to i- ple- ent an5 assess co- pliance Gitz TMq ds, Get1an5 5ry1Geatzer P aste doa5 Allocations (P dAs)8 Tzis promra- is also e6pecte5 to better czaracteri4e MXf conveye5 pollutant loa5s an5 sources8</p>
<p>P ere tzere q elays?</p>	<p>N/A</p>
<p>q escription oLq elays</p>	<p>N/A</p>
<p>Hinzlinzts an5 Acco- plisz- ents</p>	<p>Tren5 5ata Gere menerate58A55itional reportinman5 neG per- it a5option services Gere provi5e58</p>
<p>Saps an5 dessons dearne5</p>	<p>Xo- e unspent - onitorinmresources Gere 5iverte5 to unbu5mete5 tasks inclu5inmpreparation oLTrasz grovisions wp5ate tzat Gas lorGar5e5 to tze Boar5 on Marcz D9, 2029, alonmGitz preparation oLtGo Xale Clean P ater gromra- Annual (Bu5met) glan 5evelop- ent8</p>

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown	
P atersze5 Na- e	Benelit gercent
Xoutz Xanta Monica Bay	900

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
Water and Sediment Quality Monitoring	Implementation	08/01/29	Yes

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of water-quality requirements?

Environmental (sediment and water quality) monitoring contributes to the attainment of Los Angeles Regional Water Quality Control Board (LARWQCB) Basin Plan Water Quality Objectives (WQO), by guiding the Dominguez Watershed Municipal Separate Storm Sewer System (MS4) National Pollutant Discharges Elimination System (NPDES) Permittees and the City of Gardena in particularly about how best to prioritize and apply limited fiscal resources towards the control of stormwater and urban runoff and the constituent or pollutants that it may contain. As an example, monitoring has shown lower suspended sediment concentrations at the FS3 (Rosecrans) outfall, as compared to FS4 (Normandie) outfall, and that laterally moving groundwater, from Los Angeles County Artesia Park and Golf course, may result in lake overflows, for several days following a storm, that alter downstream benign water quality characteristics, such as Total Dissolved Solids (TDS), Chloride, Sulfate, Algae, Specific Electrical Conductivity, and Turbidity.

D. Does this project leverage other funding sources to maximize SCW Program Goals?

Yes, the City of Gardena Environmental Monitoring Program contributed financial support to the South Bay Council of Governments (SB COG), which along with other Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permittees, is supporting Dominguez Channel Estuary sediment, fish tissue, and benthic organism monitoring as required by the Los Angeles Regional Water Quality Control Board (LARWQCB) Los Angeles and Long Beach Harbors Toxics Total Maximum Daily Load (TMDL) Basin Plan Amendment.

H. Does this project encourage innovation and adoption of new technologies and practices.?

The City of Gardena utilizes an innovative mobile upflow clarifier system to capture and assess suspended solids stormwater outfall loads.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

Contamination within Los Angeles and Long Beach Harbor sediments is non-homogeneous with respect to both location and depth. Furthermore, the impacts of this contamination are not uniform and various characteristics measured may provide conflicting indications of impairment intensity. Therefore, the monitoring program is intended to be iterative and adaptive in integrating remediation efforts with monitoring data and assessments.

M. Does this project promote green jobs and career pathways?

Yes, environmental monitoring is a gateway green job and career pathway that supports individuals in providing a range of future environmental assessment, compliance, and engineering design services.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric q escription	Annual Value	Xince Inception Value	q discussion
Volu- e oL stor- Gater capture5 an5 reuse5	0 ac1t	0 ac1t	Tze City Environ- ental (P ater Quality) Monitorinmg roma- captures an5 reuses very little stor- Gater runoLl8
Volu- e oL stor- Gater capture5 an5 reczarm5 to a - aname5 ahuiler	0 ac1t	0 ac1t	Tze City Environ- ental (P ater Quality) Monitorinmg roma- captures an5 reczarmes very little stor- Gater runoLlto a - aname5 ahuiler8
Volu- e oL stor- Gater capture5 an5 treat5	0 ac1t	0 ac1t	Tze City Environ- ental (P ater Quality) Monitorinmg roma- captures an5 treats very little stor- Gater runoLl8

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Na- e	q escription	Relate5 Soals	Annual Value	Xince Inception Value	q discussion

<p>q ry an5 P et P eatzer Xtor- ater Wutlall an5 Receivinm P ater Quality concentrations</p>	<p>Tze collection an5 subsehuent analysis oL5ry an5 Get Geatzer, stor- Gater outlall an5 receivinmGater huality concentrations, alloGs Gater huality co- parisons amainst dos Anmeles Remional P ater Quality Control Boar5 (dARP QCB) Basin glan P ater Quality Wbjectives (P QW)8</p>	<p>A8l- prove Gater huality an5 contribute to attain- ent oL Gater1huality rehuire- ents8 q8deverame otzer Lun5inmsources to - a6i- i4e XCP gromra- Soals8 H8Encourame innovation an5 a5option oLneG tecnolomies an5 practices8 d8l- ple- ent an iterative planninm/evaluation process to ensure a5aptive - aname- ent8M8 gro- ote mreen jobs an5 career patzGays8</p>	<p>N/A Varies by constituent or pollutant, nenerally e6pressible as - icromra- s per liter</p>	<p>N/A Varies by constituent or pollutant, nenerally e6pressible as - icromra- s per liter</p>	<p>N/A</p>
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ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity’s description and background.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

Below are the project images.

No images provided



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

**Project Vector Minimization
Documents**

Municipal Activity Reports

ACTIVITY OVERVIEW (7 of 15)

ACTIVITY NAME	FY 2020-21 Gardena Willows Wetland Preserve Restoration Planning Project
NEW OR EXISTING	New
ACTIVITY TYPE	Project
STATUS	In Progress
Annual Plan Amount	\$ 6,831.00
Annual Expense Total	\$ 6,831.00

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

- ACTIVITY DETAILS**
- ACTIVITY SCHEDULE**
- ACTIVITY GOALS**
- ACTIVITY METRICS**
- ACTIVITY ADDITIONAL METRICS**
- PROJECT DETAILS**
- COMMUNITY BENEFITS**
- VECTOR MINIMIZATION**
- ISI STATUS**
- ADDITIONAL DOCUMENTS**

ACTIVITY DETAILS

The following table summarizes general information about this Activity.

Latitude, Longitude	33.874, -118.292
Activity Description	The Gardena Willows Wetland Preserve is a natural relict of the formerly extensive Dominguez Slough which volunteers are gradually restoring
Activity Background	<p>The City of Gardena, Gardena Willows Wetland Preserve, occupies 13.6 acres (55,000 m²) and is the last undeveloped remnant of the former Dominguez Slough, a vernal marsh and riparian woodland that covered 400 acres (1,600,000 m²). The Friends of the Gardena Willows Wetland Preserve (https://www.gardenawillows.org/) is a 501(c)(3) charitable organization founded to restore, maintain, and enhance the Gardena Willows Wetland Preserve's unique natural habitat and native flora and fauna for the enjoyment, enrichment, and education of present and future generations of all ages. Once occupied by the native Tongva people, the preserve consists of 9.4 acres (38,000 m²) of wetland and 4.2 acres (17,000 m²) of upland areas, both hosting a mix of native, invasive, exotic, ruderal flora and fauna. Friends volunteers work to remove the exotic plants and animals and replace them with regional natives. The City is considering the potential for active runoff treatments, that drain to reconstructed subsurface wetlands, and a dry ponds that would mimic the prior vernal wetland characteristics. This year Catch Basin Connector Pipe Screens (CPS) were installed and an investigation of how to eliminate the voracious and invasive African Clawed Frogs (<i>Xenopus laevis</i>) which predate on the native Baja California Tree/Chorus Frog (<i>Hyla regillia</i> or <i>Pseudacris hypochondriaca</i>) and tadpoles.</p>
Description of Progress	N/A
Were there Delays?	N/A

Description of Delays	N/A
Highlights and Accomplishments	N/A
Gaps and Lessons Learned	N/A
Total Project Cost	\$ N/A
Cost Share for Regional Project	No

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown	
Watershed Name	Benefit Percent
South Santa Monica Bay	100

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
FY 2020-21 Gardena Willows Wetland Preserve Restoration Planning Project	Planning (Pre- design)	06/30/21	No

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of water-quality requirements?

Assuming that stakeholder consensus can be developed, it is likely that the proposed project would improve discharge water quality and contribute to the attainment of Los Angeles Regional Water Quality Control Board (LARWQCB) Basin Plan Water Quality Objectives (WQO). However there are many remaining stakeholder and environmental hurdles that will complicate the project design and implementation.

C. Does this project improve public health by preventing and cleaning up contaminated water, increasing access to open space, providing additional recreational opportunities, and helping communities mitigate and adapt to the effects of climate change through activities such as increasing shade and green space?

One of the project objectives would be to provide additional recreational opportunities in a controlled fashion that protects sensitive native species from abuse or predation.

D. Does this project leverage other funding sources to maximize SCW Program Goals?

To be determined, however it is likely that the proposed project would have the potential to attract stakeholder and regional support.

E. Does this project invest in infrastructure that provides multiple benefits?

Yes, the proposed concept would provide native habitat, recreational areas, and water quality improvement benefits.

F. Does this project prioritize Nature-Based Solutions?

We believe that the potential use of subsurface wetlands and dry ponds constitute a nature based solution, assuming that flow volumes can be accommodated.

H. Does this project encourage innovation and adoption of new technologies and practices.?

Yes, there are few subsurface wetlands employed in Los Angeles County.
SCW Municipal Activity

J. Does this project provide DAC Benefits, including Regional Program infrastructure investments, that are not less than one hundred and ten percent (110%) of the ratio of the DAC population to the total population in each Watershed Area?

If supported by the Watershed Area Steering Committee.

K. Does this project provide Regional Program infrastructure funds benefitting each Municipality in proportion to the funds generated within their jurisdiction, after accounting for allocation of the one hundred and ten percent (110%) return to DACs, to the extent feasible.?

The proposed project would return Gardena Property Taxes to the community.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

The project would have the potential to be implemented through an iterative planning and evaluation process to ensure adaptive management opportunities are implemented.

M. Does this project promote green jobs and career pathways?

The proposed pretreatment, subsurface wetland, and dry pond would provide several entry level green jobs and a career pathway in operations and maintenance as well as design.

N. Does this project ensure ongoing operations and maintenance for Projects?

This would be a major aspect of the outreach effort to team with the Friends volunteers ongoing conservation and restoration efforts.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion
		<p>A. Improve water quality and contribute to attainment of water-quality requirements.</p> <p>C. Improve public health by preventing and cleaning up contaminated water, increasing access to open space, providing additional recreational opportunities, and helping communities mitigate and adapt to the effects of climate change through activities such as increasing shade and green</p>			

Invasive plants removed and natives planted	<p>Unfortunately the removal of invasive plants is a gross effort subject to year to year variations. These metrics would hopefully demonstrate the progress in removing exotics and replacing them with natives.</p>	<p>space. D. Leverage other funding sources to maximize SCW Program Goals. E. Invest in infrastructure that provides multiple benefits. F. Prioritize Nature-Based Solutions. H. Encourage innovation and adoption of new technologies and practices. J. Provide DAC Benefits, including Regional Program infrastructure investments, that are not less than one hundred and ten percent (110%) of the ratio of the DAC population to the total population in each Watershed Area. K. Provide Regional Program infrastructure funds benefitting each Municipality in proportion to the funds generated within their jurisdiction, after accounting for allocation of the one hundred and ten percent (110%) return to DACs, to the extent feasible. L. Implement an</p>	N/A mass in pounds or number of plants	N/A mass in pounds or number of plants	N/A
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		<p>iterative planning/evaluation process to ensure adaptive management. M. Promote green jobs and career pathways. N. Ensure ongoing operations and maintenance for Projects.</p>			
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PROJECT-SPECIFIC DETAILS

The following table provides a summary of Project benefits.

Project Weather Type	Wet
Project Capacity	N/A ac-ft
Area Managed	N/A ac
Annual Average Stormwater Capture	N/A ac-ft
Impervious Area Removed	N/A ac
Dry Weather Inflow	N/A ac-ft
Primary Pollutant	Bacteria
Primary Pollutant Reduction Amount	N/A%
Does this project implement or mimic natural processes?	Yes
Does this project utilize natural materials	Yes
Does this project include water reuse components?	No

Does this project include onsite use components?	No
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PROJECT COMMUNITY BENEFITS

The following table outlines Community Benefits resulting from this Project.

Improves flood management, conveyance, and mitigation?	Yes
Creates, enhances, or restores park spaces, habitats, or wetland spaces?	Yes
Improves public access to waterways?	No
Creates or enhances new recreational opportunities?	Yes
Creates or enhances green spaces at school?	No
Reduces heat local island effect and increases shade?	Yes
Increases shade or the number of trees or other vegetation at the site location?	Yes

PROJECT VECTOR MINIMIZATION

The following table outlines the Project's vector minimization plan.

Does the project have a vector minimization plan?	No
Vector Minimization Plan Description	N/A
Consulted with local vector control district?	N/A

The following documents are Vector Minimization documents. They are attached after this activity's corresponding documents.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

INSTITUTE FOR SUSTAINABLE INFRASTRUCTURE (ISI)

The following table outlines the Project's ISI certification status.

Is this project certified by the Institute for Sustainable Infrastructure?	N/A
ISI Project Status	N/A
Final Score	N/A
ISI Description	N/A
Award Level	N/A

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

Below are the project images.

No images provided



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

**Project Vector Minimization
Documents**

Municipal Activity Reports

ACTIVITY OVERVIEW (8 of 15)

ACTIVITY NAME	FY 2020-21 MS4 Permit Industrial/ Commercial Facility Inspections
NEW OR EXISTING	New
ACTIVITY TYPE	Program
STATUS	In Progress
Annual Plan Amount	\$ 10,690.00
Annual Expense Total	\$ 20,190.00

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS
ACTIVITY SCHEDULE
ACTIVITY GOALS
ACTIVITY METRICS
ACTIVITY ADDITIONAL METRICS
ADDITIONAL DOCUMENTS

ACTIVITY DETAILS

The following table summarizes general information about this Activity.

Latitude, Longitude	33.8827, -118.307
Activity Description	LARWQCB MS4 Permits require Industrial/Commercial Facility inspections, tracking, outreach, and IGP coverage to control runoff discharges.
Activity Background	Los Angeles Regional Water Quality Control Board (LARWQCB) Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permits require implementation of an Industrial/Commercial Facility Program with site inspections, database tracking, educational outreach, State Stormwater Industrial General Permit (IGP) enrollment, when warranted based on activities, State Senate Bill 205 IGP enrollment verification, and enforcement actions when necessary.
Description of Progress	Within the City of Gardena, there are approximately 350 commercial and 150 Industrial General Permit (IGP) facilities, with an equal number of industrial facilities being jurisdictionally located outside, but attributed to the City, in the State Stormwater Multiple Application and Report Tracking System (SMARTS). The Dominguez Channel is reportedly impaired for metals, nutrients, oil & grease, and fecal indicator bacteria, such as Escherichia coli. Industrial and automotive facilities are reported to be potentially significant sources of trash, metals (especially copper, lead, and zinc), oils, and grease. Food Services facilities, especially their waste storage areas, may similar be sources of bacteria, oils, and grease. This program educates business owners about the importance of controlling their sources of these materials and the importance to be in compliance with the state IGP. While outreach and education is initially emphasized, enforcement measures may be instituted when warranted by site conditions. Since most of the facilities asserted that they had not received an MS4 Permit inspection, a significant effort was invested in outreach and education.
Were there Delays?	N/A
Description of Delays	N/A
Highlights and Accomplishments	During the fiscal year, Approximately 50 IGP and 20 food service inspection were undertaken. Approximately 70 IGP Non-Filer Notice of Violation (NOV) and Los Angeles Regional Water Quality Control (LARWQCB) referral were initiated.

Gaps and Lessons
Learned

The Board was slower than expected at enrolling IGP Non-filer facilities into their permit program.

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown	
Watershed Name	Benefit Percent
South Santa Monica Bay	100

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
MS4P Industrial/Commercial Facility Program	Completed	06/30/21	Yes

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of water-quality requirements?

Within the City of Gardena, there are approximately 350 commercial and 150 Industrial General Permit (IGP) facilities, with an equal number of industrial facilities being jurisdictionally located outside, but attributed to the City, in the State Stormwater Multiple Application and Report Tracking System (SMARTS). The Dominguez Channel is reportedly impaired for metals, nutrients, oil & grease, and fecal indicator bacteria, such as *Escherichia coli*. Industrial and automotive facilities are reported to be potentially significant sources of trash, metals (especially copper, lead, and zinc), oils, and grease. Food Services facilities, especially their waste storage areas, may similar be sources of bacteria, oils, and grease. This program educates business owners about the importance of controlling their sources of these materials and the importance to be in compliance with the state IGP. While outreach and education is initially emphasized, enforcement measures may be instituted when warranted by site conditions. During the fiscal year, Approximately 50 IGP and 20 food service inspection were undertaken. Approximately 70 IGP Non-Filer Notice of Violation (NOV) and Los Angeles Regional Water Quality Control (LARWQCB) referral were initiated. Since most of the facilities asserted that they had not received an MS4 Permit inspection, a significant effort was invested in outreach and education. Assuming a majority of the businesses are persuaded by the Board to enroll in the IGP this should result in significant source control and contribute to the attainment of LARWQCB Water Quality Objectives (WQO).

D. Does this project leverage other funding sources to maximize SCW Program Goals?

This program filters and prioritizes State and Regional Water Board enforcement activities on the most recalcitrant facilities, leveraging state enforcement actions to the most problematic locations.

H. Does this project encourage innovation and adoption of new technologies and practices.?

Since many of the industrial and commercial facilities were unfamiliar with practices to reduce runoff constituent or pollutant discharges, the City anticipates that this new effort will result in the significant adoption of new Best Management Practices (BMPS) and technologies by these facilities.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

The Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permit Industrial/Commercial Facilities Program is intended to be an iterative and adaptive program. During the first year, its emphasis was on business outreach regarding the inspection requirement and IGP enrollment. During the second year, the program emphasis shifted to IGP non-filer enrollment and automotive facility inspections. During the third year our emphasis on IGP Non-Filer referrals continued along with restaurant and food service industry inspections.

M. Does this project promote green jobs and career pathways?

Industrial/Commercial facilities may employ specialty service providers to clean the facilities and prepare compliance documents. Some larger site utilize specialty Best Management Practices (BMPs) to treat and remove contaminants from runoff. Industrial/Commercial Inspectors is generally considered to be a green job and career pathway.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
Volume of stormwater captured and recharged to a managed aquifer	0 ac-ft	0 ac-ft	The City Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permit Industrial/Commercial Facilities Program is likely to reduce stormwater runoff and constituent discharges, than capture and recharge the runoff to a managed aquifer.
Volume of stormwater captured and treated	0 ac-ft	0 ac-ft	The City Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permit Industrial/Commercial Facilities Program is likely to reduce stormwater runoff and constituent discharges, than capture and treat the runoff.

Volume of stormwater captured and reused	0 ac-ft	0 ac-ft	The City Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permit Industrial/Commercial Facilities Program is likely to reduce stormwater runoff and constituent discharges, than capture and reuse the runoff.
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ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion
Industrial and Commercial Inspection and LARWQCB IGP Referrals	Approximately 150 industrial inspections, 20 Food service, and 70 Industrial General Permit (IGP) Non Filer referrals were made during the reporting period.	A. Improve water quality and contribute to attainment of water-quality requirements. D. Leverage other funding sources to maximize SCW Program Goals. H. Encourage innovation and adoption of new technologies and practices. L. Implement an iterative planning/evaluation process to ensure adaptive management. M. Promote green jobs and career pathways	70 Inspections and referrals	N/A Inspections and referrals	Including undocumented, closed, correction, Board, and IGP Non-Filer inspections, the tracking database totals over 1500 records.

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

Below are the project images.

No images provided



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

**Project Vector Minimization
Documents**

Municipal Activity Reports

ACTIVITY OVERVIEW (9 of 15)

ACTIVITY NAME	FY 2020-21 NPDES Permit
NEW OR EXISTING	Existing
ACTIVITY TYPE	Program
STATUS	In Progress
Annual Plan Amount	\$ 16,856.25
Annual Expense Total	\$ 16,856.25

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

- ACTIVITY DETAILS**
- ACTIVITY SCHEDULE**
- ACTIVITY GOALS**
- ACTIVITY METRICS**
- ACTIVITY ADDITIONAL METRICS**
- ADDITIONAL DOCUMENTS**

ACTIVITY DETAILS

The following table summarizes general information about this Activity.

Latitude, Longitude	33.8827, -118.307
Activity Description	State requires Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permittees pay permit fee
Activity Background	Each public entity that owns and/or operates part of a storm water conveyance system and is subject to a municipal separate storm sewer system (MS4) NPDES permit, shall pay an annual fee based on population according to the most recently published United States Census. The City of Gardena is typically invoiced in December of the Fiscal Year.
Description of Progress	Each public entity that owns and/or operates part of a storm water conveyance system and is subject to a municipal separate storm sewer system (MS4) NPDES permit, shall pay an annual fee based on population according to the most recently published United States Census. The City of Gardena is typically invoiced in December of the Fiscal Year.
Were there Delays?	N/A
Description of Delays	N/A
Highlights and Accomplishments	The State Water Resources Control Board (SWRCB) Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permit Fee was paid.
Gaps and Lessons Learned	Get a copy of invoices form accounting department.

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown	
Watershed Name	Benefit Percent
South Santa Monica Bay	100

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
FY 2020-21 NPDES Permit	Implementation	06/30/21	Yes

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

M. Does this project promote green jobs and career pathways?

The State Water Resources Control Board (SWRCB) Water Quality Fee, paid by Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permittees, supports state green jobs and provides secure good paying careers with excellent benefits.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion
State Water Resources Control Board Water Quality Discharge Permit Fee	Assesses whether the Permittee has paid its fee to the State to provide professional green jobs and develop good paying, high benefit, career pathways.	M. Promote green jobs and career pathways.	16856.25 \$	50000 \$	Fee amounts are still being verified since past accounting officials may not have stored in the correct item.

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

Below are the project images.

No images provided



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

**Project Vector Minimization
Documents**

Municipal Activity Reports

ACTIVITY OVERVIEW (10 of 15)

ACTIVITY NAME	FY 2020-21 Public Works Street Sweeping (Vacuuming)
NEW OR EXISTING	New
ACTIVITY TYPE	Program
STATUS	In Progress
Annual Plan Amount	\$ 156,734.25
Annual Expense Total	\$ 156,734.25

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS
ACTIVITY SCHEDULE
ACTIVITY GOALS
ACTIVITY METRICS
ACTIVITY ADDITIONAL METRICS
ADDITIONAL DOCUMENTS

ACTIVITY DETAILS

The following table summarizes general information about this Activity.

Latitude, Longitude	33.8827, -118.307
Activity Description	City Public Works staff and vehicles vacuum public streets as a source control for trash, vegetation (nutrients), metals, and sediments.
Activity Background	The City of Gardena Public Works Department has had an effective Street Sweeping program to capture trash, leaves and similar large debris. However, the program was environmentally optimized, beginning in 2019, by replacing the City sweeper fleet with higher air filtering efficiency vacuum units and directing staff to decrease their velocity to increase sediment and particulate capture efficiency. These solids are widely recognized as binding sites for toxic metals, carcinogenic combustion by products (Polynuclear Aromatic Hydrocarbons or PAH), legacy electrical transformer oils (Polychlorinated Biphenyls or PCB), and legacy organochlorine (OC) pesticides as identified in the Harbor Toxics Total Maximum Daily Load (TMDL), which includes the Dominguez Channel that drains the City of Gardena. Major arteries in the City of Gardena are swept twice a week, while secondary roads, residential areas, ramps, and bike lanes are swept once per week, totaling approximately 113 street miles or 226 curb miles of City streets swept per week.
Description of Progress	The City of Gardena Public Works Department has had an effective Street Sweeping program to capture trash, leaves and similar large debris. These solids are widely recognized as binding sites for toxic metals, carcinogenic combustion by products (Polynuclear Aromatic Hydrocarbons or PAH), legacy electrical transformer oils (Polychlorinated Biphenyls or PCB), and legacy organochlorine (OC) pesticides as identified in the Harbor Toxics Total Maximum Daily Load (TMDL), which includes the Dominguez Channel that drains the City of Gardena.

Were there Delays?	N/A
Description of Delays	N/A
Highlights and Accomplishments	Major arteries in the City of Gardena are swept twice a week, while secondary roads, residential areas, ramps, and bike lanes are swept once per week, totaling approximately 113 street miles or 226 curb miles of City streets swept per week.
Gaps and Lessons Learned	Parking enforcement was reduced due pandemic Imitations.

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown	
Watershed Name	Benefit Percent
South Santa Monica Bay	100

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
City Street Sweeping Services	Implementation	06/30/21	Yes

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of water-quality requirements?

Solids collected by the City's street sweeping activities are widely recognized as binding sites for toxic metals and legacy organics identified in the Harbor Toxics Total Maximum Daily Load (TMDL), which includes the Dominguez Channel that drains the City of Gardena. Major arteries in the City of Gardena are swept twice a week, while secondary roads, residential areas, ramps, and bike lanes are swept once per week, totaling approximately 113 linear miles and 226 curb miles of City streets swept per week.

M. Does this project promote green jobs and career pathways?

The City of Gardena provides green Public Works jobs as vacuum truck drivers and parking enforcement officers, introducing entry level staff to future environmental career pathway opportunities.

N. Does this project ensure ongoing operations and maintenance for Projects?

Street sweepers and vacuum trucks are the first line of defense in capturing trash, leaves, debris, and sediments, which ensure extended operations and reduce maintenance needs for other water quality protection projects including catch basin debris removal, Connector Pipe Screen (CPS) cleaning and sediment removal from the Dominguez Estuary and Long Beach and Los Angeles Harbors.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
Volume of stormwater captured and treated	0 ac-ft	0 ac-ft	The City of Gardena Street Vacuuming Program is a trash and constituent source control program that captures and treats very little, if any, stormwater runoff.
Volume of stormwater captured and reused	0 ac-ft	0 ac-ft	The City of Gardena Street Vacuuming Program is a trash and constituent source control program that captures and reuses very little, if any, stormwater runoff.

Volume of stormwater captured and recharged to a managed aquifer	0 ac-ft	0 ac-ft	The City of Gardena Street Vacuuming Program is a trash and constituent source control program that captures and recharges to a managed aquifer very little, if any, stormwater runoff.
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ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion

Curb Miles Swept	<p>Street sweeping has the potential to significantly reduce the discharge of trash, which can be a significant discharge source of nutrients and fecal indicator bacteria, while sediments and particulates can be a significant source of metals. The City is required to report on the number of Curb Miles Swept annually in its MS4 Individual Annual Report.</p>	A. Improve water quality and contribute to attainment of water-quality requirements.	226 Miles (#)	603 Miles (#)	Curb miles swept over 2 and 2/3 years
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ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

Below are the project images.

No images provided



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

**Project Vector Minimization
Documents**

Municipal Activity Reports

ACTIVITY OVERVIEW (11 of 15)

ACTIVITY NAME	FY2022-23 State Trash Provisions Implementation Project
NEW OR EXISTING	New
ACTIVITY TYPE	Project
STATUS	Deferred
Annual Plan Amount	\$ 200,000.00
Annual Expense Total	\$ 0.00

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

- ACTIVITY DETAILS**
- ACTIVITY SCHEDULE**
- ACTIVITY GOALS**
- ACTIVITY METRICS**
- ACTIVITY ADDITIONAL METRICS**
- PROJECT DETAILS**
- COMMUNITY BENEFITS**
- VECTOR MINIMIZATION**
- ISI STATUS**
- ADDITIONAL DOCUMENTS**

ACTIVITY DETAILS

The following table summarizes general information about this Activity.

Latitude, Longitude	33.8827, -118.307
Activity Description	The City provided the LARWQCB with a March 31, 2021, Response Technical Memorandum proposing to use \$200,000 in MPTA support to install FCSE
Activity Background	<p>On April 7, 2015, the SWRCB adopted Statewide Trash Provisions that resulted in the City of Gardena receiving a LARWQCB Water Code Section 13383 Investigative Order dated August 18, 2017, directing the City of Gardena to identify how it would plan to comply with the provisions. On November 20, 2017, the City advised the Regional Board in writing of its intent to follow a Track 2 Trash Full Capture System Equivalency (FCSE) implementation strategy; allowing use of an integrated and iterative combination of Full Capture Devices (FCD), multi-benefit Watershed Control Measure (WCMs) Projects, Treatment Controls, Public Advocacy and/or Institutional Control Assessments.</p> <p>On February 19, 2019, the City submitted its Statewide Trash Provisions Implementation Assessment Plan, summarizing the City intent to follow an iterative compliance attainment plan, using SCWP MPTA support. Pending the identification of compliance requirements in the LARWQCB final fifth term MS4 NPDES Permit and assuming inspection and construction installation costs of approximately \$1,000 per catch basin, the City anticipates project completion by late 2025. For each of the 2020-21 and 2021-22 fiscal planning years, we have budgeted for the retrofitting and construction installation of FCSE FCDs in approximately 200 catch basins, at an estimated cost of approximately \$200,000.</p>

Description of Progress	Following submission of the FY 2020-21 Safe Clean Water Program (SCWP) Municipal Program Transfer Agreement (MPTA) Annual (Budget) Plan on January 25, 2021, and the Gardena Trash Provisions Update on March 31, 2021, \$200,000 was budgeted towards the installation (construction) of approximately 200, or more, Full Capture System compliant Connector Pipe Screen. However Los Angeles County Department of Public Works permitting for the work has been delayed and the bid solicitation is now expected in September 2022.
Were there Delays?	Yes
Description of Delays	Construction permitting, through the Los Angeles County Department of Public Works is now expected to take approximately one year.
Highlights and Accomplishments	Progress is occurring.
Gaps and Lessons Learned	Construction permitting, through the Los Angeles County Department of Public Works is now expected to take approximately one year.
Total Project Cost	\$ 400,000.00
Cost Share for Regional Project	No

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown	
Watershed Name	Benefit Percent
South Santa Monica Bay	100

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
Catch Basin CPS Unit Installation	Construction	06/30/23	No

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of water-quality requirements?

Installation of the CPS FCDs will assist the City in meeting the requirements of the fifth term MS4 Permit and Statewide trash policy. Additionally, the Project will capture litter, vegetative debris, and sediment, which all cause downstream water quality impairment. By capturing the litter and debris, they will be prevented from being discharged into downstream water bodies.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

Maintenance of Connector Pipe Screens (CPS) and catch basins tend to be iterative approach as the loads change with the seasons and adjacent land use characteristics.

M. Does this project promote green jobs and career pathways?

Connector Pipe Screen Installers and maintenance staff tend to be entry level green jobs that provide career pathways to a wider range of opportunities.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
Volume of stormwater captured and treated	0 ac-ft	0 ac-ft	Trash Full Capture Systems (FCS), such as Connector Pipe Screens (CPS) capture very little if any runoff, however the water is treated by filtering out coarse trash, debris, and some sediments.
Volume of stormwater captured and reused	0 ac-ft	0 ac-ft	Trash Full Capture Systems (FCS), such as Connector Pipe Screens (CPS) capture and reuse very little, if any, runoff,
Volume of stormwater captured and recharged to a managed aquifer	0 ac-ft	0 ac-ft	Trash Full Capture Systems (FCS), such as Connector Pipe Screens (CPS) capture and recharge, to a managed aquifer, very little, if any, runoff,

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion

Connector Pipe Screens installed	<p>This would be a simple inventory method to track installation of devices and compliance with Municipal Separates Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permit compliance requirements.</p>	<p>A. Improve water quality and contribute to attainment of water-quality requirements. E. Invest in infrastructure that provides multiple benefits. G. Provide a spectrum of project sizes from neighborhood to regional scales. H. Encourage innovation and adoption of new technologies and practices. L. Implement an iterative planning/evaluation process to ensure adaptive management. M. Promote green jobs and career pathways. N. Ensure ongoing operations and maintenance for Projects.</p>	0 Number	0 Number	No additional Full Capture Systems constructed during the current fiscal year.
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PROJECT-SPECIFIC DETAILS

The following table provides a summary of Project benefits.

Project Weather Type	Wet
Project Capacity	N/A ac-ft
Area Managed	N/A ac
Annual Average Stormwater Capture	N/A ac-ft
Impervious Area Removed	N/A ac
Dry Weather Inflow	N/A ac-ft
Primary Pollutant	Total Lead
Primary Pollutant Reduction Amount	N/A%
Does this project implement or mimic natural processes?	No
Does this project utilize natural materials	No
Does this project include water reuse components?	No
Does this project include onsite use components?	No

PROJECT COMMUNITY BENEFITS

The following table outlines Community Benefits resulting from this Project.

Improves flood management, conveyance, and mitigation?	No
Creates, enhances, or restores park spaces, habitats, or wetland spaces?	No
Improves public access to waterways?	No
Creates or enhances new recreational opportunities?	No
Creates or enhances green spaces at school?	No
Reduces heat local island effect and increases shade?	No
Increases shade or the number of trees or other vegetation at the site location?	No

PROJECT VECTOR MINIMIZATION

The following table outlines the Project's vector minimization plan.

Does the project have a vector minimization plan?	No
Vector Minimization Plan Description	N/A
Consulted with local vector control district?	N/A

The following documents are Vector Minimization documents. They are attached after this activity's corresponding documents.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

INSTITUTE FOR SUSTAINABLE INFRASTRUCTURE (ISI)

The following table outlines the Project's ISI certification status.

Is this project certified by the Institute for Sustainable Infrastructure?	N/A
ISI Project Status	N/A
Final Score	N/A
ISI Description	N/A
Award Level	N/A

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

Below are the project images.

No images provided



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

**Project Vector Minimization
Documents**

Municipal Activity Reports

ACTIVITY OVERVIEW (2 of 125)

ACTIVITY NAME	November 6, 2018, to June 30, 2019, NPDES Permit
NEW OR EXISTING	Existing
ACTIVITY TYPE	Program
STATUS	In Progress
Annual Plan Amount	\$ 16,856.25
Annual Expense Total	\$ 21,344.00

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

- ACTIVITY DETAILS**
- ACTIVITY SCHEDULE**
- ACTIVITY GOALS**
- ACTIVITY METRICS**
- ACTIVITY ADDITIONAL METRICS**
- ADDITIONAL DOCUMENTS**

ACTIVITY DETAILS

The following table summarizes general information about this Activity.

Latitude, Longitude	33.8827, -118.307
Activity Description	State requires Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permittees pay permit fee
Activity Background	Each public entity that owns and/or operates part of a storm water conveyance system and is subject to a municipal separate storm sewer system (MS4) NPDES permit, shall pay an annual fee based on population according to the most recently published United States Census. The City of Gardena is typically invoiced in December of the Fiscal Year.
Description of Progress	Each public entity that owns and/or operates part of a storm water conveyance system and is subject to a municipal separate storm sewer system (MS4) NPDES permit, shall pay an annual fee based on population according to the most recently published United States Census. The City of Gardena is typically invoiced in December of the Fiscal Year.
Were there Delays?	No
Description of Delays	N/A
Highlights and Accomplishments	State Water Resources Control Board (SWRCB) Municipal Separate Storm Sewer System (MS4) National Pollutant Discharges Elimination System (NPDES) invoice paid.
Gaps and Lessons Learned	Safe Clean Water Program (SCWP) Municipal Program Transfer Agreement (MPTA) support funds did not arrive until February 2021, so this expenditure needed to be recovered in a future Fiscal Year.

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown	
Watershed Name	Benefit Percent
South Santa Monica Bay	100

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
November 6, 2018, to June 30, 2019, NPDES Permit	Implementation	06/30/19	Yes

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

M. Does this project promote green jobs and career pathways?

The State Water Resources Control Board (SWRCB) Water Quality Fee, paid by Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permittees, supports state green jobs and provides secure good paying careers with excellent benefits.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion
State Water Resourced Control Board (SWRCB) Water Quality Discharge Permit Fee.	M.Promote green jobs and career pathways.	M. Promote green jobs and career pathways.	N/A \$	N/A \$	N/A

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

Below are the project images.

No images provided



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

**Project Vector Minimization
Documents**

Municipal Activity Reports

ACTIVITY OVERVIEW (3 of 135)

ACTIVITY NAME	NoveF 2er 019- mg1to Pune W 19- m01 EnvironF ental MonitorinX SroXraF
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ACTIVITY TYSE	SroXraF
\$TAT3\$	In SroXress
Annual Slan AF ount	. n8x 1W16W
Annual Ef pense Total	. m W8LV8W

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS
ACTIVITY SCHEDULE
ACTIVITY GOALS
ACTIVITY METRICS
ACTIVITY ADDITIONAL METRICS
ADDITIONAL DOCUMENTS

ACTIVITY DETAILS

The following table summarizes general information about this Activity.

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Activity h escription	Collect , ater zuality and seDiF ent saF ples at t4e h oF inXueB C4annel and City storF , ater outdalls dbr NSh E\$ M\$ x SerF it coF pliance
Activity k acQrround	<p>h urinX t4e suF F er od9- mg1 dullo, inX several F anaXeF ent c4anXes1t4e City od7 arDena M\$ x NSh E\$ SerF it G ater and \$eDiF ent ; uality MonitorinX SroXraF , as assessed and dbrunD to consist odde, analytes1poor Detection liF its1Distant saF plinX locations1no delD loXs1or p4otoXrap4sbnor , ere any odt4ese coF ponents availa2le doF t4e prior consultant6 Jollo, inX voter approval odMeasure G on NoveF 2er 019- mg1City od7 arDena stad aut4oriBeD collection odits drst coF pliant , etq eat4er storF event on NoveF 2er 9919- mg6 \$u2sezuently1t4e City received a 2aseline F onitorinX coF F enceF ent approval letter1DateD Marc4 019- n01 doF t4e 5ARG ; Ck and coF pleteD its drst successdul season od F onitorinX on Pune m 19- n06 In accorDance , it4 t4e Marc4 01 9- n0letter1t4e City od7 arDena collects t, o DryqanD t4ree , etq , eat4er F onitorinX events per year1, it4 suspenDeD seDiF ent saF ples collected at t, o outdall F onitorinX sites DurinX t, o zualidjinX events6 Azuatic toficity saF ple are collected and analyBeD DurinX at least one suF F er Dryq eat4er and t, o , etq , eat4er events6 h urinX May 9- n01an outdall inventory odopen c4annel areas , it4in t4e City od7 arDena , as coF pleteD and an o2servational Data2ase DevelopeD6 NonqstorF , ater outdall screeninX occurreD on Pune L1m 1and 9819- n01 DurinX , 4ic4 no siXnidcant Disc4arXes , ere o2serveD1nor saF ples collected6 AlonX , it4 relevant F eta Data1analytical F onitorinX results , ere convertED into California EnvironF ental h ata Ef c4anXe Net, orQ (CEh EN) style dbrF at and su2F itteD seF iqannually to t4e 5ARG ; Ck alonX , it4 Annual Reports6</p> <p>T4e City seeQs reiF 2urseF ent dbr ef penDitures F aDe in iF pleF entinX t4is ne, F onitorinX and reportinX proXraF 1initiate ader t4e NoveF 2er 019- mg1\$CG S edective Date6 AlonX , it4 ef penDitures dbr t4is dscal year's F onitorinX edbrts6 IF pleF entation odan edective MonitorinX and ReportinX SroXraF (MRS) is critical to assesses t4e c4eF ical1p4ysical1and 2ioloXical iF pacts odstorF , ater DeriveD M\$ x Disc4arXes on t4e h oF inXueB C4annel receivinX , aters and1idnecessary as a result odonXoinX litiXation1to assess coF pliance , it4 ReceivinX G ater 5iF itations (RG 5s) and G ater ; ualityq aseD Edluent 5iF itations (G ; k E5s)1 ot4er, ise Qno, n as NE5s to iF pleF ent and assess coF pliance , it4 TMh 5s1, etqanD Dryq eat4er G aste 5oaD Allocations (G 5As)6 T4is proXraF is also ef pected to 2etter c4aracteriBe M\$ x conveyed pollutant loadDs and sources6</p>

<p>h escription od SroXress</p>	<p>hurinX t4e suF F er od9- ng1dillo, inX several F anaXeF ent c4anXes1t4e City od7 arDena M\$ x NSh E\$ SerF it G ater and \$eDiF ent ; uality MonitorinX SroXraF , as assesseD and dund to 2e inaDezuate6 Jollo, inX voter approval odMeasure G on NoveF 2er 019- ng1City od7 arDena stad1aut4oriBeD collection odits drst coF pliant , etq eat4er storF event on NoveF 2er 9919- ng6 \$u2sezuently1t4e City receiveD a 2aseline F onitorinX coF F enceF ent approval letter1DateD Marc4 019- n01doF t4e 5ARG ; Ck and coF pleteD its drst successdul season odF onitorinX on Pune m 19- n06 T4e City seeG reiF 2urseF ent dbr ef penDitures F aDe in iF pleF entinX t4is ne, F onitorinX and reportinX proXraF 1 initiate ader t4e NoveF 2er 019- ng1\$ CG S edective Date6 AlonX , it4 ef penDitures dbr t4is dscal year's F onitorinX edbrts6 IF pleF entation odan edective MonitorinX and ReportinX SroXraF (MRS) is critical to assesses t4e c4eF ical1p4ysical1and 2ioloxical iF pacts odstorF , ater DeriveD M\$ x Disc4arXes on t4e h of inXueB C4annel receivinX , aters and1idnecessary as a result odonXoinX litiXation1to assess coF pliance , it4 ReceivinX G ater 5iF itations (RG 5s) and G ater ; ualityck aseD Edtluent 5iF itations (G ; k E5s)1 ot4er, ise Qno, n as NE5s to iF pleF ent and assess coF pliance , it4 TMh 5s1, etq and Dryq eat4er G aste 5oaD Allocations (G 5As)6 T4is proXraF is also ef pected to 2etter c4aracteriBe M\$ x conveyed pollutant loads and sources6</p>
<p>G ere t4ere h elays?</p>	<p>N/A</p>
<p>h escription odh elays</p>	<p>N/A</p>
<p>HiX4liX4ts and AccoF plis4F ents</p>	<p>In accorDance , it4 t4e Marc4 019- n0letter1t4e City od7 arDena collects t, o Dryq and t4ree , etq eat4er F onitorinX events per year1 , it4 suspenDeD seDiF ent saF ples collected at t, o outdall F onitorinX sites DurinX t, o zualidyinX events6 Azuatic toficity saF ple are collected and analyBeD DurinX at least one suF F er Dryq , eat4er and t, o , etq eat4er events6 hurinX May 9- n01an outdall inventory odopen c4annel areas , it4in t4e City od7 arDena , as coF pleteD and an o2servational Data2ase DevelopeD6 Nonq storF , ater outdall screeninX occurred on Pune L1m 1anD 9819- n01 DurinX , 4ic4 no siXnidcant Disc4arXes , ere o2serveD1nor saF ples collected6 AlonX , it4 relevant F eta Data1analytical F onitorinX results , ere converted into Calidbrnia EnvironF ental h ata Ef c4anXe Net, orQ(CEh EN) style dbrF at and su2F itteD seF iq annually to t4e 5ARG ; Ck alonX , it4 Annual Reports6</p>
<p>7 aps and 5essons 5eareneD</p>	<p>\$ade Clean G ater SroXraF (\$CG S) Municipal SroXraF Transdbr AXreeF ent (MSTA) support , as not receiveD until Je2ruary 91 9- 9n6 City contri2utions to Dryq eat4er do, s seeF eD De F iniF us as coF pareD to t4ose doF ot4er jurisDictions6\$uspenDeD seDiF ent loads doF J\$W(RosecraF s) Drain , ere F uc4 lo, er t4an t4ose doF J\$ x (NorF andie)6</p>

The following table describes which watersheds, and to what degree, benefit from this activity.

\$CG Municipal Activity

SaXe x odg

Watershed Benefit Breakdown	
Gaters4eD NaF e	kenedt Sercent
\$out4 \$anta Monica kay	m -

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
TasQNaF e	S4ase	EstiF ated CoF pletion h ate	CoF plete?
NoveF 2er 019- mg1to Pune W 19- m01 EnvironF ental MonitorinX SroXraF	CoF pleteD	- 0/W/m0	Yes

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of water-quality requirements?

Environmental (sediment and water quality) monitoring contributes to the attainment of Los Angeles Regional Water Quality Control Board (LARWQCB) Basin Plan Water Quality Objectives (WQO), by guiding the Dominguez Watershed Municipal Separate Storm Sewer System (MS4) National Pollutant Discharges Elimination System (NPDES) Permittees and the City of Gardena in particularly about how best to prioritize and apply limited fiscal resources towards the control of stormwater and urban runoff and the constituent or pollutants that it may contain. As an example, monitoring has shown lower suspended sediment concentrations at the FS3 (Rosecrans) outfall, as compared to FS4 (Normandie) outfall, and that laterally moving groundwater, from Los Angeles County Artesia Park and Golf course, may result in lake overflows, for several days following a storm, that alter downstream benign water quality characteristics, such as Total Dissolved Solids (TDS), Chloride, Sulfate, Algae, Specific Electrical Conductivity, and Turbidity.

D. Does this project leverage other funding sources to maximize SCW Program Goals?

Yes, the City of Gardena Environmental Monitoring Program contributed financial support to the South Bay Council of Governments (SB COG), which along with other Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permittees, is supporting Dominguez Channel Estuary sediment, fish tissue, and benthic organism monitoring as required by the Los Angeles Regional Water Quality Control Board (LARWQCB) Los Angeles and Long Beach Harbors Toxics Total Maximum Daily Load (TMDL) Basin Plan Amendment.

H. Does this project encourage innovation and adoption of new technologies and practices.?

The City of Gardena utilizes an innovative mobile upflow clarifier system to capture and assess suspended solids stormwater outfall loads.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

Contamination within Los Angeles and Long Beach Harbor sediments is non-homogeneous with respect to both location and depth. Furthermore, the impacts of this contamination are not uniform and various characteristics measured may provide conflicting indications of impairment intensity. Therefore, the monitoring program is intended to be iterative and adaptive in integrating remediation efforts with monitoring data and assessments.

M. Does this project promote green jobs and career pathways?

Yes, environmental monitoring is a gateway green job and career pathway that supports individuals in providing a range of future environmental assessment, compliance, and engineering design services.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	\$ince Inception Value	Discussion
VoluF e od storF , ater captureD and rec4arXeD to a F anaXeD azuider	- acqđ	- acqđ	MonitorinX SroXraF 6
VoluF e od storF , ater captureD and treateD	- acqđ	- acqđ	MonitorinX SroXraF 6
VoluF e od storF , ater captureD and reuseD	- acqđ	- acqđ	MonitorinX SroXraF 6

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additif nal Metrics Table					
Metric NaF e	Description	Related 7 oals	Annual Value	\$ince Inception Value	Discussion
h ry and G et Geat4er1 \$torF , ater wutđall and ReceivinX G ater ; uality concentrations	T4e collection and su2sezuent analysis odDry and , et , eat4er storF , ater outđall and receivinX , ater zuality concentrations1 allo , s , ater zuality coF parisons , it4 5os AnXeles ReXional G ater ; uality Control k oarD (5ARG ; Ck) k asin Slan G ater ; uality w2jectives (G ; w)6	A6IF prove , ater zuality and contri2ute to attainF ent od , aterq uality rezuireF ents6 h 65everaXe ot4er dınDınX sources to F af iF iBe \$ CG SroXraF 7 oals6 H6EncouraXe innovation and aDoption odne, tec4noloXies and practices6 56IF pleF ent an iterative planninX/evaluation process to ensure aDaptive F anaXeF ent6M6 SroF ote Xreen jo2s and career pat4, ays6	N/A Varies 2y constituent or pollutant1 Xenerally ef pressi2le as F icroXraF s per liter6	N/A Varies 2y constituent or pollutant1 Xenerally ef pressi2le as F icroXraF s per liter6	N/A

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity’s description and background.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

Below are the project images.

No images provided



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

**Project Vector Minimization
Documents**

Municipal Activity Reports

ACTIVITY OVERVIEW (4 of 145)

ACTIVITY NAME	November 6, 2018, to June 30, 2019, MS4 Permit Industrial/ Commercial Facility Inspections
NEW OR EXISTING	New
ACTIVITY TYPE	Program
STATUS	In Progress
Annual Plan Amount	\$ 35,209.00
Annual Expense Total	\$ 35,209.00

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

- ACTIVITY DETAILS**
- ACTIVITY SCHEDULE**
- ACTIVITY GOALS**
- ACTIVITY METRICS**
- ACTIVITY ADDITIONAL METRICS**
- ADDITIONAL DOCUMENTS**

ACTIVITY DETAILS

The following table summarizes general information about this Activity.

Latitude, Longitude	33.8827, -118.307
Activity Description	LARWQCB MS4 Permits require Industrial/Commercial Facility inspections, tracking, outreach, and IGP coverage to control runoff discharges.
Activity Background	Los Angeles Regional Water Quality Control Board (LARWQCB) Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permits require implementation of an Industrial/Commercial Facility Program with site inspections, database tracking, educational outreach, State Stormwater Industrial General Permit (IGP) enrollment, when warranted based on activities, State Senate Bill 205 IGP enrollment verification, and enforcement actions when necessary.
Description of Progress	Los Angeles Regional Water Quality Control Board (LARWQCB) Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permits require implementation of an Industrial/Commercial Facility Program with site inspections, database tracking, educational outreach, State Stormwater Industrial General Permit (IGP) enrollment, when warranted based on activities, State Senate Bill 205 IGP enrollment verification, and enforcement actions when necessary.
Were there Delays?	N/A
Description of Delays	N/A
Highlights and Accomplishments	Developed and provided to the Los Angeles Regional Water Quality Control Board (LARWQCB) and State Water Resources Control Board (SWRCB) a list of Industrial General Permittees (IGP) identified in State Stormwater Multiple Application and Report Tracking System (SMARTS) as being in Gardena, but jurisdictionally located outside of the City and for which the City was not responsible for enforcement.
Gaps and Lessons Learned	The SWRCB is comfortable with reporting incorrect jurisdictional IGP data in SMARTS.

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown	
Watershed Name	Benefit Percent
South Santa Monica Bay	100

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
November 6, 2018, to June 30, 2019, MS4 Permit Industrial/Commercial Facility Inspections	Implementation	06/30/19	Yes

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of water-quality requirements?

Within the City of Gardena, there are approximately 350 commercial and 150 Industrial General Permit (IGP) facilities, with an equal number of industrial facilities being jurisdictionally located outside, but attributed to the City, in the State Stormwater Multiple Application and Report Tracking System (SMARTS). Since no inspection reports and the Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permit required tracking database were unavailable, the City contracted for new inspections and a new database to be developed. Approximately 176 IGP and 117 commercial inspections were undertaken and the Board provided with a list of IGPs claiming residency in Gardena, usually based on zip code designation, but actually located in adjacent municipalities. A majority of the IGP inspections were non-filer and during subsequent fiscal years lead to Notice of Violation (NOV) actions and referral to the Los Angeles Regional Water Quality Control (LARWQCB) for subsequent enforcement actions. Since most of the facilities asserted that they had not received an MS4 Permit inspection, a significant effort was invested in outreach and education. Assuming a majority of the businesses are persuaded by the Board to enroll in the IGP this should result in significant source control and contribute to the attainment of LARWQCB Water Quality Objectives (WQO).

D. Does this project leverage other funding sources to maximize SCW Program Goals?

This program filters and prioritizes State and Regional Water Board enforcement activities on the most recalcitrant facilities, leveraging state enforcement actions to the most problematic locations.

H. Does this project encourage innovation and adoption of new technologies and practices.?

Since many of the industrial and commercial facilities were unfamiliar with practices to reduce runoff constituent or pollutant discharges, the City anticipates that this new effort will result in the significant adoption of new Best Management Practices (BMPS) and technologies by these facilities.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

The Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permit Industrial/Commercial Facilities Program is intended to be an iterative and adaptive program. During the first year, its emphasis was on business outreach regarding the inspection requirement and IGP enrollment.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
Volume of stormwater captured and treated	0 ac-ft	0 ac-ft	N/A
Volume of stormwater captured and recharged to a managed aquifer	0 ac-ft	0 ac-ft	N/A
Volume of stormwater captured and reused	0 ac-ft	0 ac-ft	N/A

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion

Inspection and Commercial Inspections and LARWQCB IGP Referrals	Approximately 180 industrial and 129 commercial inspections occurred during the reporting period	<p>A. Improve water quality and contribute to attainment of water-quality requirements.</p> <p>D. Leverage other funding sources to maximize SCW Program Goals.</p> <p>H. Encourage innovation and adoption of new technologies and practices.</p> <p>L. Implement an iterative planning/evaluation process to ensure adaptive management.</p> <p>M. Promote green jobs and career pathways</p>	N/A Inspections and referrals	N/A Inspections and referrals	N/A
---	--	---	-------------------------------	-------------------------------	-----

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

Below are the project images.

No images provided



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

**Project Vector Minimization
Documents**

Municipal Activity Reports

ACTIVITY OVERVIEW (1 of 51)

ACTIVITY NAME	November 6, 2018, to June 30, 2019, Public Works Street Sweeping (Vacuuming)
NEW OR EXISTING	New
ACTIVITY TYPE	Program
STATUS	In Progress
Annual Plan Amount	\$ 87,000.00
Annual Expense Total	\$ 85,751.17

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

- ACTIVITY DETAILS**
- ACTIVITY SCHEDULE**
- ACTIVITY GOALS**
- ACTIVITY METRICS**
- ACTIVITY ADDITIONAL METRICS**
- ADDITIONAL DOCUMENTS**

ACTIVITY DETAILS

The following table summarizes general information about this Activity.

Latitude, Longitude	33.8827, -118.307
Activity Description	City Public Works staff and vehicles vacuum public streets as a source control for trash, vegetation (nutrients), metals, and sediments.
Activity Background	<p>The City of Gardena Public Works Department has had an effective Street Sweeping program to capture trash, leaves and similar large debris. However, the program was environmentally optimized, beginning in 2019, by replacing the City sweeper fleet with higher air filtering efficiency vacuum units and directing staff to decrease their velocity to increase sediment and particulate capture efficiency. These solids are widely recognized as binding sites for toxic metals, carcinogenic combustion by products (Polynuclear Aromatic Hydrocarbons or PAH), legacy electrical transformer oils (Polychlorinated Biphenyls or PCB), and legacy organochlorine (OC) pesticides as identified in the Harbor Toxics Total Maximum Daily Load (TMDL), which includes the Dominguez Channel that drains the City of Gardena. Major arteries in the City of Gardena are swept twice a week, while secondary roads, residential areas, ramps, and bike lanes are swept once per week, totaling approximately 113 street miles or 226 curb miles of City streets swept per week.</p>

Description of Progress	The City of Gardena Public Works Department has had an effective Street Sweeping program to capture trash, leaves and similar large debris. However, the program was environmentally optimized, in late 2018, by replacing the City sweeper fleet with higher air filtering efficiency vacuum units and directing staff to decrease their velocity to increase sediment and particulate capture efficiency. These solids are widely recognized as binding sites for toxic metals, carcinogenic combustion by products (Polynuclear Aromatic Hydrocarbons or PAH), legacy electrical transformer oils (Polychlorinated Biphenyls or PCB), and legacy organochlorine (OC) pesticides as identified in the Harbor Toxics Total Maximum Daily Load (TMDL), which includes the Dominguez Channel that drains the City of Gardena. Major arteries in the City of Gardena are swept twice a week, while secondary roads, residential areas, ramps, and bike lanes are swept once per week, totaling approximately 113 street miles or 226 curb miles of City streets swept per week.
Were there Delays?	N/A
Description of Delays	N/A
Highlights and Accomplishments	The City Street Sweeper Program was environmentally optimized, in late 2018, by replacing the City sweeper fleet with higher air filtering efficiency vacuum units and directing staff to decrease the velocity of their vehicles to increase sediment and particulate capture efficiency.
Gaps and Lessons Learned	Safe Clean Water Program (SCWP) Municipal Program Transfer Agreement (MPTA) Support was not received until February 2, 2021, resulting in the need to recover expenditures made for this program.

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown	
Watershed Name	Benefit Percent

South Santa Monica Bay	100
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ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
None provided	N/A	N/A	N/A

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of water-quality requirements?

Solids collected by the City's street sweeping activities are widely recognized as binding sites for toxic metals and legacy organics identified in the Harbor Toxics Total Maximum Daily Load (TMDL), which includes the Dominguez Channel that drains the City of Gardena. Major arteries in the City of Gardena are swept twice a week, while secondary roads, residential areas, ramps, and bike lanes are swept once per week, totaling approximately 113 linear miles and 226 curb miles of City streets swept per week.

M. Does this project promote green jobs and career pathways?

The City of Gardena provides green Public Works jobs as vacuum truck drivers and parking enforcement officers, introducing entry level staff to future environmental career pathway opportunities.

N. Does this project ensure ongoing operations and maintenance for Projects?

Street sweepers and vacuum trucks are the first line of defense in capturing trash, leaves, debris, and sediments, which ensure extended operations and reduce maintenance needs for other water quality protection projects including catch basin debris removal, Connector Pipe Screen (CPS) cleaning and sediment removal from the Dominguez Estuary and Long Beach and Los Angeles Harbors.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
Volume of stormwater captured and reused	0 ac-ft	0 ac-ft	Street Vacuuming does not capture or reuse stormwater.
Volume of stormwater captured and treated	0 ac-ft	0 ac-ft	Street Vacuuming captures a minimal amount of stormwater for treatment.
Volume of stormwater captured and recharged to a managed aquifer	0 ac-ft	0 ac-ft	Street Vacuuming does not capture stormwater for managed aquifer recharge.

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion

Curb miles swept	City of Gardena Public Works Street Maintenance crews street vacuum the approximately 226 curb miles weekly and may come more weekly when needed.	A. Improve water quality and contribute to attainment of water-quality requirements. M. Promote green jobs and career pathways. N. Ensure ongoing operations and maintenance for Projects.	N/A Miles swept	N/A Miles swept	N/A
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ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section	
Attachment Name	Description
None provided	N/A

Below are the project images.

No images provided



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

**Project Vector Minimization
Documents**



ATTACHMENTS FOR SECTION:

Annual Report Documents

	Activity Category	June 2019 Budget Est.	November 6, 2018, to June 30, 2019	FY 2019-20 Expended	FY2020-21 Expended
Safe Clean Water Program Municipal Program Transfer Agreement Revenue		\$850,000.00			
ETF Check # 202102024861230 (2/2/21)					\$811,389.80
FY 2020-21 Minimum Available for New (post 11/6/18) Activities					\$567,972.86
Maximum for Pre-11/6/18 or 11/7/18 to 6/30/20 New Activities Cost Recovery					\$243,416.94
7/1/20-6/30/21 MS4P I/C Facilities Program (CWE)	New (No Records)				\$20,190.00
Street Sweeping/Vacuuming (Public Works)	New (Hi Efficiency)				\$156,734.25
Regional Projects Restoration Projects - Gardena Willows Wetland	New				\$6,830.84
FY 2020-21 MS4 NPDES Permit Environmental Compliance Monitoring (CWE)	New (TECS Failed)				\$190,415.19
FY 2020-21 State MS4 NPDES Permit Fee					\$16,856.25
Bill from LA County - for Catch Basin Clean up	New (Due to CPS)				\$5,597.63
Total					\$396,624.16
Potential Carry Forward for New since 11/6/18 Annual Expenses					\$171,348.70
11/6/18-6/30/19 State MS4 NPDES Permit Fee	Existing		\$21,344.00		
FY 2019-20 State MS4 NPDES Permit Fee	Existing			\$21,344.00	
11/6/18-6/30/19 MS4 NPDES Permit Environmental Compliance Monitoring	New Recovery		\$103,573.30		
FY 2019-20 MS4 NPDES Permit Environmental Compliance Monitoring	New Recovery			\$160,703.98	
11/6/18-6/30/19 Street Sweeping (High Efficiency Vacuuming)	New Recovery		\$85,751.17		
FY 2019-20 Street Sweeping (High Efficiency Vacuuming)	New Recovery			\$143,669.04	
11/6/18-6/30/19 MS4P I/C Facility Program (CWE)	New Recovery		\$35,209.00		
FY 2019-20 MS4P I/C Facility Program (CWE)	New Recovery			\$59,076.00	
Subtotals for 30% Existing or 11/6/18 to 6/30/20 New Activity Cost Recovery			\$245,877.47	\$384,793.02	
Available for cost recovery against 11/6/18 to 6/30/20 New Activity Expenditures					\$243,416.94
Unrecovered 11/6/18 to 6/30/20 New Activity Expenditures Carry over					\$387,253.55

ATTACHMENT D –

City of Gardena SCWP MPTA FY 2021-2022 Annual Plan



City of Gardena

Safe Clean Water Program (SCWP) Municipal Program Transfer Agreement (MPTA)

2021-2022 Annual Expenditures Plan



1561 E. Orangethorpe Avenue, Suite 240
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City of Gardena

Safe Clean Water Program (SCWP) Municipal Program Transfer Agreement (MPTA)

2021-2022 Annual Expenditures Plan

Prepared for:



Department of Public Works
Kevin Kwak, Principal Civil Engineer
1700 West 162nd Street
Gardena, CA 90247
TEL (626) 569-2150

Prepared by:



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April 1, 2021

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Acronyms

BMP	Best Management Practice
CBO	Community Based Organization
CEDEN	California Environmental Data Exchange Network
CPS	Connector Pipe Screen
CWA	Clean Water Act
FCD	Full Capture Device
FCSE	Full Capture System Equivalency
I/C	Industrial/Commercial
IC/ID	Illicit Connection/Illicit Discharge
IGP	Industrial General Permit
ISI	Institute for Sustainable Infrastructure
LACFCD	Los Angeles County Flood Control District
LARWQCB	Los Angeles Regional Water Quality Board
MEP	Maximum Extent Practicable
MPTA	Municipal Program Transfer Agreement
MRP	Monitoring and Reporting Program
MS4	Municipal Separate Storm Sewer System
NEL	Numeric Effluent Limitation
NGO	Non-Governmental Organization
NOT	Notice of Termination (from a State General Stormwater Permit)
NOV	Notice of Violation
NPDES	National Pollutant Discharge Elimination System
NSWD	Non-stormwater Discharge
O&M	Operation and Maintenance
PAHs	Polynuclear Aromatic Hydrocarbons
RWL	Receiving Water Limitations
RWQCB	Regional Water Quality Control Boards
SCWP	Safe Clean Water Program
SWRCB	State Water Resources Control Board
TMDL	Total Maximum Daily Load
WCM	Watershed Control Measure
WLA	Waste Load Allocations
WMP	Watershed Management Program
WQBEL	Water Quality-Based Effluent Limitations

ES. Executive Summary

On November 6, 2018, a supermajority of Los Angeles County voters passed Measure W, the Los Angeles Region Safe Clean Water Program (SCWP)¹, an impervious area-based special property tax, implemented as Chapters 16 and 18 of the Los Angeles County Flood Control District (LACFCD) Code of Ordinances². While half (50%) of the SCWP revenues are used to fund Regional Projects and Programs³ and ten percent (10%) are allocated to the District to recoup incurred SCWP costs, the remaining forty percent (40%) is apportioned back to cities through the SCWP Municipal Program Transfer Agreement (MPTA)⁴.

On July 14, 2020, the City of Gardena City Council authorized, and Mayor Tasha Cerda signed, the SCWP MPTA between the LACFCD and City of Gardena, which the District countersigned on October 21, 2020. The Fiscal Year 2020-21, City of Gardena, Annual (Budgeting) Plan was received by the LACFCD on January 27, 2021, and, on February 2, 2021, \$811,389.80 was distributed to the City SCWP MPTA account for plan implementation, which will be reported upon in the Annual Progress/Expenditure Report that is due on December 31, 2021. Despite this recent transaction, the Fiscal Year 2021-22, City of Gardena, Annual (Budgeting) Plan, is due to the LACFCD on April 1, 2021, with the expectation that a disbursement of similar magnitude will occur by August 31, 2021. A revised SCWP MPTA should be ratified, during spring 2024, prior to expiration of the recently authorized agreement on June 30, 2024.

Seventy percent (70%) of the City MPTA support, or approximately \$567,972.86 annually, is eligible for expenditures on projects and programs implemented, since passage of Measure W on November 6, 2018, to comply with State of California, Regional Water Quality Control Board, Los Angeles Region (LARWQCB) Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Phase 1 Permit requirements. Up to thirty percent (30%) of the City SCWP MPTA funds, or \$243,416.94 annually, may be applied towards maintenance of programs implemented before November 6, 2018. These include street sweeping (vacuuming), water quality monitoring, and any unrecovered Industrial/Commercial (I/C) facility inspection costs, which were incurred after Measure W passage and for which prior implementation records exist to demonstrate regulatory compliance. These expenditures will be subject to a reporting audit, at least once every three years, and posted on the District SCWP website.

Excluding the above three identified continuing programs, records indicate that implementation of other MS4 NPDES requirements began after November 6, 2018, when the City retained a new consultant. Going forward, the City of Gardena will plan to expend over 70% of its annual SCWP MPTA revenue on new program implementation efforts initiated since Measure W passage, while the remainder will be applied to expansion or Operation and Maintenance (O&M) of the continuing MS4 programs. Substantial new MS4 NPDES program costs are anticipated to result from the imminent LARWQCB adoption of the fifth term MS4 NPDES Permit, which is anticipated to identify an effective date of July 1, 2021.

¹ <https://safecleanwaterla.org/>

² https://library.municode.com/ca/los_angeles_county/codes/code_of_ordinances?nodeId=FLCODICO

³ <https://safecleanwaterla.org/regional-program-2/>

⁴ <https://safecleanwaterla.org/municipalities/>

1. Introduction

Precipitation universally integrates natural and anthropogenic pollution sources, with both eroding soils and automobiles being sources of metals, the homeless and wildlife releasing nutrients, bacteria and pathogens, and lightening, arsonists, and utilities all sparking brush fires that regionally spread mutagenic Polynuclear Aromatic Hydrocarbons (PAHs). Initially evaporating and infiltrating, continued rainfall becomes runoff, starting as sheet flows and rivulets that coalesce and drain through a myriad of privately and publicly owned conveyances, from roof downspouts, to swales and street gutters, inlets and catch basins, storm drains, channels, and washes. Not surprisingly, it is often difficult to isolate pollutant sources and impairments, once various runoff sources confluence to form receiving waters.

The Porter-Cologne Act, California Water Code Section 7, was adopted by the state legislature in 1969 to protect the quality and beneficial uses of wetlands, surface and groundwaters, by regulating sources of pollution or impairment of those waters. It is implemented by the State Water Resources Control Board (SWRCB) and nine (9) Regional Water Quality Control Boards (RWQCB), including the Los Angeles Regional Water Quality Control Board (LARWQCB), based on Water Quality Control, or Basin, Plans that contain the guiding policies of water quality, beneficial uses, and pollution management in California.

Similarly, the objectives of the Federal Water Pollution Control, or Clean Water, Act (CWA) of 1972 are to restore and maintain the chemical, physical, and biological integrity of the nation's waters; recognizing state responsibility for addressing water pollution sources, while providing them with assistance to do so. Partially due to intractable disagreements, regarding the regulation of point and non-point sources of pollution and their impact on stormwater and runoff quality, the CWA was amended in 1987, leading to the issuance of Phase I, or large, Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permits by Federal and State agencies, such as the LARWQCB. These MS4 NPDES Permits impose challenging compliance requirements and water quality objectives on municipal and institutional dischargers, which Permittees have found costly to effectively implement.

Since 1990, through four "terms" or cycles, Permittees, such as the City of Gardena, have implemented the increasingly costly LARWQCB MS4 Phase I NPDES Permit utilizing scarce general fund expenditures; to the consternation of other program stakeholders that are equally dependent on those funds for support. Unfortunately, due to evolving regulations, challenging water quality goals objectives, and litigation, the increasing competition among these general fund stakeholders, shows no signs of abating.

After the 2013 deferral, by the Los Angeles County Board of Supervisors, of the Clean Beaches Clean Water Initiative, Los Angeles County Measure W, the Safe Clean Water Program (SCWP), was added to the November 6, 2018, general election ballot. This measure, which passed with over 66% of the vote, imposed a 2.5 cent, per impermeable square foot, annual parcel fee that was first collected with the October 2019 Los Angeles County Property Tax Assessment. While the SCWP website⁵ contains more history and information, forty percent of SCWP revenues are apportioned back to the MS4 Permittees and made accessible upon adoption of a Municipal Program Transfer Agreement (MPTA) with the LACFCD; followed by submission of a municipal Annual (budgeting) Plan that identifies how the support will be cost-effectively expended to achieve SCWP and MS4 Permit compliance goals and objectives.

⁵ <https://safecleanwaterla.org/>

2. SCWP Annual Plan Objectives and Content

As codified in Chapter 18, Section 9.B.5 of the LACFCD Code of Ordinances⁶, the City of Gardena SCWP MPTA Annual Plan shall identify and include anticipated activities, stakeholder engagement activities, an initial programmatic budget, and SCWP goals supported by the planned expenditures. These tasks are reiterated in Exhibit A of the City of Gardena SCWP MPTA and comprise the remainder of the Fiscal Year 2021-2022 City of Gardena SCWP MPTA Annual Plan. Due to delays in funding receipt, completion of proposed projects may stretch into future fiscal year periods; however, incremental progress toward their completion will be annually reported and expenditures audited following the MPTA schedule.

3. Description of SCWP MPTA Projects

In this section, the City of Gardena identifies and provides a brief description of SCWP MPTA funded projects, currently anticipated for implementation during the upcoming fiscal years. Chapter 16, Section 3.Y of the LACFCD Code of ordinances defines project as *the development (including design, preparation of environmental documents, obtaining applicable regulatory permits, construction, inspection, and similar activities), operation and maintenance (including monitoring), of a physical structure or facility that increases Stormwater or Urban Runoff capture or reduces Stormwater or Urban Runoff pollution in the District*. The following summaries briefly characterize the proposed projects and how they contribute to the achievement of SCWP goals, including qualitative or quantitative water quality targets, metrics for assessing progress, and the future reporting of progress towards enumerating applicable parameters.

3.1 Statewide Trash Provisions Catch Basin Retrofit Project

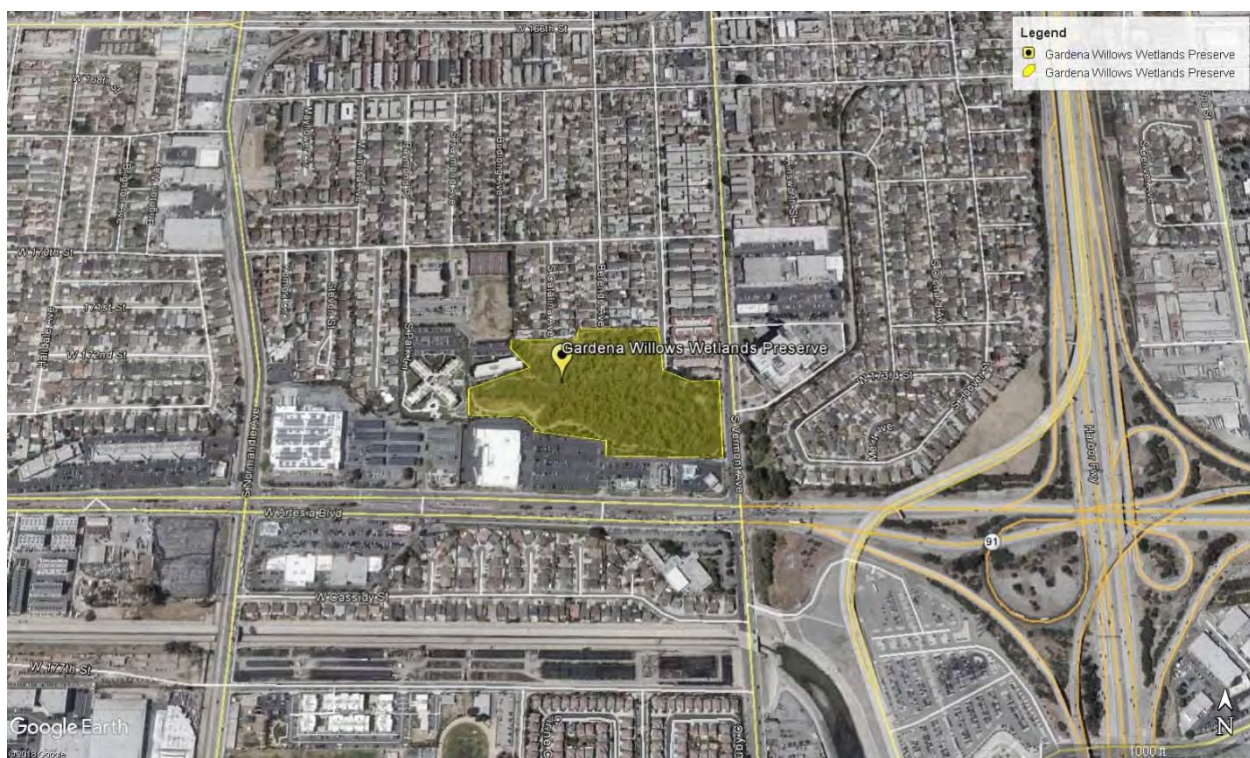
On April 7, 2015, the SWRCB adopted Statewide Trash Provisions, leading the LARWQCB to issue a Water Code Section 13383 Investigative Order, dated August 18, 2017, directing the City of Gardena to identify how it would comply with them. In a November 20, 2017 reply, the City advised the LARWQCB of its intent to follow a Track 2 Trash Full Capture System Equivalency (FCSE) implementation strategy using an integrated and iterative combination of Full Capture Devices (FCD), treatment controls, multi-benefit Watershed Control Measures (WCMs), Public Advocacy and/or Institutional Control Assessments. The City Statewide Trash Provisions Implementation Assessment Plan, proposing to follow an iterative compliance attainment plan using SCWP MPTA support, was then submitted on February 19, 2019.

The City of Gardena proposes retrofitting four hundred (400), of its estimated 860, catch basins with FCD certified Connector Pipe Screens (CPS), based on an inspection and construction installation estimate of \$1,000 per catch basin. Assuming continued compliance with requirement of the LARWQCB MS4 NPDES Permit to become effective on July 1, 2021, this project will target catch basins serving multifamily residential, commercial, and industrial priority land use areas. The project will be undertaken using \$200,000 in Fiscal Year 2020-21 MPTA funds, that were received on February 2, 2021, and an equal amount of Fiscal Year 2021-22 MPTA funds, anticipated for receipt by August 31, 2021. The City offers to assess trash and sediment capture progress, using FCSE protection as a metric, by reporting the total number and percentage of intra-jurisdictional catch basins protected in each year's SCWP MPTA Annual Progress/Expenditure Report, due on December 31, of each following Fiscal Year.

⁶ https://library.municode.com/ca/los_angeles_county/codes/code_of_ordinances?nodeId=FLCODICO_CH18SACLWAPRIMOR_18.09TRAG

3.2 Gardena Willows Wetland Preserve Restoration Project

Although degraded by invasive and exotic plant species, the Gardena Willows Wetland Preserve, located just northwest of Vermont Avenue and Artesia Boulevard, is one of the last remnants of the previously extensive, Dominguez Slough Wetlands. Maintained by Friends of the Gardena Willows Wetland Preserve volunteers, the canyon is managed in an ongoing effort to restore and enhance native habitat, flora, and fauna. Members from the many diverse local communities periodically gather to remove trash, debris, and exotic or invasive plant species; allowing for the reintroduction and recruitment of native plants that support upland wetland habitat areas. Community outreach programs, including school tours, regularly educate the community about the natural history of the South Bay, ongoing restoration efforts aimed at improving the Gardena Willows Wetland Preserve, and supporting the return of local beneficial uses.



Although the Willows Friends volunteers have accomplished much, the momentum of informal habitat restoration projects is often difficult to maintain and slowed by social and environmental perturbations. In contrast, formal restoration projects often achieve significant initial restoration accomplishments, only to falter over the long run, allowing a return of prior, degraded, conditions. Fiscal Year 2020-21 project objectives were to support community recreation staff in assisting the Willows Friends and identify the potential for the alignment of their goals and objectives with those of the SCWP. Since these funds only became available in February, the efforts are ongoing and will be subsequently reported upon.

During Fiscal Year 2021-22, the City proposes to initiate a feasibility study with the goal of implementing water quality improvement measures in the degraded, but potentially wetland-like, canyon bottomlands. While the majority of the uplands area would continue to be tended by the Wetland Friends, this area would be designed to accommodate and remediate runoff flows, while allowing heavier duty maintenance

in alternating areas on a multiyear schedule to prevent wetland overgrowth, excess pollutant uptake, and static water pools that might otherwise support vectors or other nuisance conditions. For the second SCWP MPTA fiscal year, quantitative targets would aim to assess pollutant capture and load reduction based on vegetation and sediment removal estimates, assuming that a common vision can be developed that allows active wetland management to achieve the water quality objectives of the SCWP MPTA.



4. Description of SCWP MPTA Programs

In this section the City of Gardena identifies and provides a brief description of SCWP MPTA funded programs, currently anticipated for implementation during the upcoming fiscal years. Chapter 16, Section 3.X of the LACFCD Code of ordinances defines program as *a planned, coordinated group of activities related to increasing Stormwater or Urban Runoff capture or reducing Stormwater or Urban Runoff pollution in the District*. The following summaries briefly characterize how the proposed programs will contribute to the achievement of one or more SCWP goals, including qualitative or quantitative targets, corresponding metrics for assessing progress, and subsequent reporting of applicable parameters.

4.1 Street Sweeping

The City of Gardena drains to the Dominguez Channel, estuary, and Greater Los Angeles Harbor carrying particulates and suspended solids that the Harbor Toxics Total Maximum Daily Load (TMDL) identified as sources of metals, mutagenic Polynuclear Aromatic Hydrocarbons (PAHs), and legacy organochlorines. In 2019, the City of Gardena Public Works Department deployed High Efficiency Street (Vacuum) Sweepers, driven at reduced speeds, to increase trash, leaves, particulate and debris capture efficiency. Arterials are swept twice, while other streets and bike lanes are swept once, totaling approximately 210 curb miles per week, at a 2021-22 fiscal year budget of \$250,000. While the City intends to continue reporting curb miles swept as its SCWP MPTA Annual Expenditure Report metric, following fifth term MS4 NPDES Permit adoption the City may determine that sediment capture would provide greater compliance credit data.

4.2 MS4 Permit and Monitoring Services Implementation Program

Following voter approval of Measure W on November 6, 2018, City of Gardena management determined its original MS4 NPDES Permit Water and Sediment Quality Monitoring Program to be inadequate and authorized collection of compliant wet-weather storm samples on November 22, 2018. The LARWQCB then provided the City with a baseline monitoring commencement approval letter, dated March 6, 2019. During May 2019, an outfall inventory of open channel areas within the City of Gardena was completed and an observational database developed. Non-stormwater outfall screening occurred on June 7, 10, and 25, 2019, during which no significant discharges were observed, nor samples collected, thus allowing the City to successfully complete its first monitoring season by June 31, 2019. Relevant meta and analytical data were subsequently converted into California Environmental Data Exchange Network (CEDEN) style format and submitted semi-annually to the LARWQCB along with Annual Reports.

The City seeks reimbursement for expenditures made in implementing this new monitoring, initiated after the November 6, 2018, SCWP effective date, along with expenditures for current monitoring and MS4 Permit program implementation efforts. Implementation of an effective Monitoring and Reporting Program (MRP) is critical to assesses the chemical, physical, and biological impacts of stormwater derived MS4 discharges on the Dominguez Channel receiving waters. If necessary, this data will be used to guide implement and assess compliance with TMDLs, wet- and dry-weather Waste Load Allocations (WLAs). The metrics for implementation of this new SCWP MPTA supported program include events monitored, sample types collected, reports submitted, and NEL compliance demonstrating analytical data developed.

4.3 Fifth Term MS4 Industrial/Commercial (I/C) Facility Inspections

Substantial new MS4 NPDES program costs are anticipated to result from LARWQCB adoption of the fifth term Permit, which is anticipated to have an effective date for July 1, 2021. With adoption of the fifth term Permit, the City will be required to conduct the first round of permit-required inspections, amounting to over 500 I/C inspections. During these inspections, the inspector assesses outdoor operations, materials and equipment storage, waste disposal, spill prevention, exposure coverage, hazardous or toxics material management, and recommends corrective actions for implementation. Furthermore, during these inspections, industrial and commercial facilities operators receive public outreach services regarding stormwater pollution source controls, enrollment in the Industrial General Permit (IGP), Best Management Practice (BMP) implementation, and education regarding non-stormwater discharge (NSWD) elimination, resulting in significantly improved discharges to the Dominguez Channel receiving water. Minor issues, such as open trash receptacles, will be corrected during the inspection, while facilities that contribute to receiving water impairments, receive a follow-up inspection to ensure that recommended corrective actions and housekeeping BMPs have been fully implemented. When potential or actual violation are identified, such as illicit connection/illicit discharge (IC/ID), the violation is ordered immediately corrected. If not terminated, City Code Enforcement Officer are referred to the location, a citation issued, and legal action initiated, if warranted. The City has identified \$100,000 for inspection and referral costs for industrial and commercial facilities within city jurisdiction. Metrics for this expenditure would be summarized as number of inspections conducted, number of LARWQCB referrals, and number of City Code Enforcement referrals.

4.4 Illicit Connection/Illicit Discharge (IC/ID) Elimination Program

The City has determined to continue the newly implemented IC/ID Elimination Program to detect and eliminate harmful discharges to, and from the MS4, and the Dominguez Channel and Estuary receiving

waters. Whether reported to the 1-888-CLEANLA, City (310) 217-9642, or "Gardena Direct" website, trained Environmental Scientists will be promptly dispatched to the discharge source location to assess, abate, and remediate as necessary contaminated flows, then provide public education and outreach materials to prevent, or at least discourage, future discharges. For innocuous discharges, staff educate the dischargers regarding the MS4 Permit and Gardena Municipal Code, while problematic discharges, capable of adversely affecting the environment, results in a Code Enforcement referrals and Notice of Violation (NOV) or citation issuance. The LACFCD may also notified when potential hazardous material discharges entering the MS4 of receiving waterbody.

The City is also providing annual IC/ID training to staff and contractors whom, as part of their duties, may be notified of, or observe IC/ID discharge to MS4. The training session addresses regulatory backgrounds, permitted and unpermitted NSWDS, field standard operating procedures, and how to respond to a reported IC/ID. As shown in

Table 9-1, the concluding budget table, the expenditures and metric objectives for this program are modest. Following receipt of the SCWP MPTA funds, training and staff outreach would begin. IC/ID response investigations would be tallied and inserted into a tracking database formulated to comply with the requirements of the draft of final fifth term LARWQCB MS4 NPDES Permit. Assuming limited call outs during the winter, during the spring, proactive IC/ID scouting and response actions would be undertaken, resulting in final metrics that include discharges abated, educational opportunities exploited, and hours or miles spend scouting for unpermitted discharges.

5. Description of SCWP MPTA O&M Activities

SCWP MPTA funds may be expended to support O&M activities that ensure stormwater structural and non-structure BMPs continue to function properly and yield anticipated water quality and environmental benefits. Due to its relatively impervious soils and extent of commercial areas, there have been relatively few BMPs implemented in the City of Gardena, however the City anticipates that SCWP MPTA support will soon begin changing that legacy characteristic of the area.

5.1 Catch Basin Trash Assessment and Maintenance

The City of Gardena has approximately 860 catch basins owned by various agencies including the LACFCD, Caltrans, and the City. For proper drainage, unprotected and CPS/FCSE retrofitted catch basins should be inspected, visually assessed for pollution prevention stencil condition, trash policy compliance status, blockage or obstructions, debris accumulation, or potential indications of IC/ID discharges. Following the visual inspection, trash and debris content will be estimated at percent full, then removed using a vacuum truck or by hand. Based on an estimated assessment and cleaning cost of \$35 per unit, the estimated budget for catch basin cleaning is \$27,300, with additional contingency budget allocated for placement or replacement of worn pollution prevention stenciling and data collection.

6. SCWP Funded Community Engagement

The City of Gardena has historically educated its business and residential communities, regarding urban and stormwater runoff pollution (including sanitary sewer system overflows, car wash fundraiser BMPs, landscaping, fertilizing, pesticide application, other gardening tips, household tips for pollution prevention, and proper disposal of household hazardous waste source controls), through informational webpages, in both English and Spanish, at: <http://www.cityofgardena.org/stormwater-management-program/>. During the 2020-21 fiscal year, outreach materials were developed and distributed to specific businesses to prevent stormwater pollution.

6.1 SCWP Community Goals and Objectives Development

Except for working with Friends of the Gardena Willows Wetland Preserve, where the potential for project development has already been proposed, local environmental Non-Governmental and Community Based Organizations (NGOs & CBOs) have been significantly drawn to other areas, such as local beaches, partially due to the dense level of development within the City. The City would attempt to develop new environmentally focused outreach opportunities, such as involving local birdwatcher at the mouth of the Estuary, who might then also be willing to collect trash and debris following storm events. Alternatively,

local NGO or CBO members may guide the City in undertaking SCWP MPTA expenditures with the objective of seeking grant support for large projects at Nas Fukai or Rowley Parks, adjacent to regional storm drains, and smaller projects that are compatible with the goals and objectives of the SCWP.

The metrics from which to assess the success to this proposed outreach effort would include community participation (sign-up sheets) at meetings and presentation aimed at identifying regional, structural, or non-structural BMP concepts for local consideration to support the attainment of SCWP objectives.

7. Monitoring of SCWP MPTA Projects

Monitoring results from continued implementation of the Water and Sediment Quality Program would annually be reported as CEDEN data files within the City of Gardena MS4 NPDES Permit compliance Annual Report submitted to the state and attached to future SCWP MPTA Expenditure Reports. Catch Basin Trash Assessment O&M Monitoring would follow the format of similar Regional Trash TMDL reporting formats and be attached to future SCWP MPTA Annual Expenditure Reports.

8. Institute for Sustainable Infrastructure Status

The SCWP MPTA projects currently identified for implementation by the City of Gardena, are unsuitable for Institute for Sustainable Infrastructure (ISI) assessment or scoring and preparation of the assessment package would deflect budget from achieving narrow and more water quality focused project objectives.

9. SCWP MPTA Proposed Fiscal Year Budget

This second City of Gardena SCWP MPTA Fiscal Year 2021-22 Annual Plan anticipates a budget transfer of \$811,389.90 from the LACFCD SCWP to the City of Gardena. **Table 9-1** summarizes the proposed programmatic expenditures, including the recovery of recent City of Gardena expenditures for continuing projects and programs, implemented to further the stormwater quality protection goals and objectives of Measure W, the SCWP, which was approved by the Voters of Los Angeles County on November 6, 2018. Adjustment in these proposed expenditures may be necessary due to the final execution of the SCWP MPTA and submittal of this Annual Plan within CoViD-19 induced constraints.

Table 9-1 Safe Clean Water Program Municipal Transfer Program Agreement Budget

New SCW Program Expenditures Current Fiscal Year 2021-22	Budget Amounts
SCWP MPTA Projects	
Statewide Trash Provisions Catch Basin Retrofit Project	\$200,000
Gardena Willows Wetland Preserve Feasibility Project	\$50,000
SCWP MPTA Program	
Street Sweeping (Vacuuming) and No Parking Enforcement Expenses	\$250,000
MS4 Permit and Monitoring Plan Implementation Services Program	\$139,000
Fifth Term MS4 Permit Industrial/Commercial Facility Inspections	\$100,000
Illicit Connection/Illicit Discharge (IC/ID) Elimination Program	\$5,000
SCWP MPTA Stakeholder and Community Outreach Activities	
Willow Friends and Estuary Audubon Outreach Efforts	\$10,000
Institute for Sustainable Infrastructure Project Status	
No Projected Budget Expenditures	\$0
SCWP MPTA Project Monitoring	
No Projected Budget Expenditures	\$0
(A) Current FY Projected New Program Expenditures Subtotal	\$754,000
On-going SCW Program Expenditures Current Fiscal Year 2021-22	
SCWP Project O&M Activities	
Catch Basin Trash Assessment and Maintenance	\$40,000
SCWP MPTA Stakeholder and Community Outreach Activities	
SCWP Community Goals and Objectives	\$10,000
(B) Current Fiscal Year Projected On-going Expenditures Subtotal	\$50,000
Projected Municipal Transfer Program Funding:	\$811,389.80
(A+B) Current Fiscal Year Projected On-going Expenditures Total:	\$804,000.00
(C) Potential November 6, 2018 SCW Program Recovery Amount	\$7,389.80
Recovery of SCW Program Expenditures Since November 6, 2018	Recovery Budget
SCWP MPTA Program	
Street Sweeping (Vacuuming)	\$137,000
Water and Sediment Quality Monitoring Plan Program	\$107,700
Industrial/Commercial Facility Inspections (Unpaid Business Invoices)	\$90,000
(D) SCWP November 6, 2018, Expenditure Recovery Subtotal	\$234,000.00
(D-C) SCWP November 6, 2018, Expenditure Recovery Balance	\$226,610.20

QUESTIONS AND ANSWERS (Q&A)
CITY OF GARDENA
REQUEST FOR PROPOSAL (RFP)
TO PROVIDE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
PROGRAM MANAGEMENT SERVICES

Question: Page 7, F. Statewide Trash Amendments Submittal. The SCWP Annual Plan attached to the RFP states that the City has submitted a trash Implementation Assessment Plan to the LA Water Board, and Task A.12 suggests that implementation of the Trash Amendments has already started. Can you confirm whether it is still necessary to submit the 13383 Order jurisdictional maps?

Answer: *Assumed that the jurisdictional map(s) will be necessary for the purpose of submitting your proposal.*

Question: Page 7, H. Load Reduction Strategy Implementation Assistance. Gardena seems to be located entirely within the Dominguez Channel watershed, and this task references a Load Reduction Strategy for the LA River bacteria TMDL. Is this task an error, or is there a part of the City that drains to the LA River? (Or is the City implementing its own bacteria load reduction strategy in the Dominguez Channel?)

Answer: *Yes, it is an error. Gardena is entirely within the Dominguez Channel watershed and the Load Reduction Strategy Implementation is not required.*

Question: Page 7, I. Reasonable Assurance Analysis Update. The RFP Background notes that the City is not affiliated with a WMP. This means that a Reasonable Assurance Analysis (RAA) update is not required. We would like to verify that this RAA update task is to account for a possible decision by the City to submit a WMP and RAA to the LA Water Board for approval. Also: Does the City have an existing RAA that will be updated, or would a new RAA need to be prepared? If the former, is there a document associated with the RAA that can be shared?

Answer: *City does not have an existing RAA. Assumed that the RAA is to be developed in purpose of submitting your proposal.*



Creating
a Better
Tomorrow,
Today™

Proposal to Provide

National Pollutant Discharge Elimination System (NPDES) Program Management Services

Submitted to:
City of Gardena
Department of Public Works
1717 West 162nd Street
Gardena, CA 90247
Attn: Kevin Kwak, PE

February 24, 2022

**CWE**

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February 24, 2022

City of Gardena
Department of Public Works
1717 West 162nd Street
Gardena, CA 90247
Attn: Kevin Kwak, PE

National Pollutant Discharge Elimination System (NPDES) Program Management Services

Dear Kevin Kwak,

For many firms, stormwater management is a sideline niche; however, CWE was founded specifically to provide specialized National Pollutant Discharge Elimination System (NPDES) services to public agencies, and our clients trust us to initiate and complete complex stormwater planning assessments, even when no precedent exists. We have developed and implemented comprehensive stormwater management programs for over 50 Southern California municipalities, many of whom are within Los Angeles County limits that require extensive coordination with the Los Angeles Regional Water Quality Control Board (RWQCB). Our extensive expertise in stormwater management and Municipal Separate Storm Sewer System (MS4) Permit compliance is the foundation upon which our civil, environmental, and water resource practices were built. CWE would be honored to serve the City of Gardena (City) using our MS4 Permit compliance expertise, along with attending to and supporting the City's many industrial and commercial business owners and operators in complying with complex and confusing MS4 Permit regulatory and reporting requirements.

CWE submits this proposal as our continued commitment to providing the leadership and resources necessary to promote timely and responsive services that benefit your City and community – so that we are **Creating A Better Tomorrow, Today™** together. We look forward to maintaining our strong relationship with the City and welcome the opportunity to further discuss our qualifications. We acknowledge receipt of all addenda. If you have questions or require additional information, please contact me at (714) 526-7500 Ext. 211 or jpereira@cwecorp.com.

Respectfully submitted,

CWE

Jason Pereira, PE, CPSWQ, QSD/P, QISP
Principal



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APPENDIX A RESUMES





City of Gardena

Proposal to Provide

National Pollutant Discharge Elimination System Program Management Services

1. Scope of Services Methodology and Understanding

Four years ago, the City of Gardena Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permit Program was at a crossroads. The Los Angeles Regional Water Quality Control Board (LARWQCB) had deemed the Draft City Individual Watershed Management Program (IWMP) Plan irreparably deficient and rescinded its conditional approval of the Draft Integrated Monitoring Program (IMP) Plan. The 112-page United State Environmental Protection Agency (USEPA) Gardena MS4 NPDES Permit Program audit documented numerous “areas of concern” as a foundation for future enforcement. In 2017, the LARWQCB had directed the City to preform required baseline water and sediment quality monitoring, however, during the following year, no analytical laboratory reports were provided. These actions resulted in LARWQCB issuance of a \$714,885 Administrative Civil Liability (ACL) complaint, against the City, for violations of the 2012 Los Angeles County MS4 NPDES Permit.

Senior City management approached CWE and Senior Project Manager Dr. Gerald Greene, who met with City and LARWQCB staff to identify a subset of MS4 NPDES Permit actions, for priority implementation, to demonstrate the City’s commitment to improved and Dominguez Channel receiving and outfall water quality. The City and CWE implemented these priority assignments, assisted City staff in regaining LARWQCB confidence and were rewarded by having the ACL complaint revoked. Since then, CWE has annually expanded the City’s MS4 NPDES Permit Program compliance efforts, generally within the prior year’s budget, as our emphasis has shifted from initial, to ongoing, compliance task implementation. Going forward, we recommend that the City identify and collect the foundational information necessary to making a decision about whether to join the Dominguez Channel Watershed Management Program (DC WMP) Group or continue with baseline MS4 NPDES permit implementation. In either case, CWE would appreciate the opportunity to continue providing the full breadth of these needed services.

Administration

Dr. Gerald Greene will be the assigned CWE Program Manager and City Staff Point of Contact. He will meet and inform City Staff of federal, state and regional regulatory initiatives, such as the proposed Dominguez Channel Commercial, Industrial, and Institutional Residual Designation Authority (CII-RDA) Permit. As stated in the City Request For Proposals (RFP), he will provide the City with written quarterly reports regarding program implementation status, critical dates, actions items, and recommendations. CWE will continue to review program implementation, recommend revisions, and assess both annual and long-term City compliance strategies. Quarterly, we will orally update the Program Manager regarding baseline or WMP Permit compliance implementation, interdepartmental coordination, environmental monitoring, and reporting recommendations, unless directed to provide written summaries.

On three dates, to be determined, CWE will document and provide required MS4 NPDES Permit training, to responsible City staff and contractors, regarding 1) Illicit Discharge Detection and Elimination (IDDE); 2) Stormwater Planning, Plan Checking, and Construction Inspection; and 3) Industrial/ Commercial (I/C) Facilities Program. Our informative, educational, and stimulating Microsoft PowerPoint® presentations are accompanied by relevant handouts, weblinks, and include sign in or attendance documentation sheets. After being granted remote access and acclimated to the City NPDES Program folder strategy, CWE will regularly update those folders with pertinent permit compliance related documents. CWE recently



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National Pollutant Discharge Elimination System Program Management Services

updated the City Public Education and Outreach materials, which are distributed during inspection visits and are posted on the City website (<https://cityofgardena.org/stormwater-management-program/>). As warranted by permit requirements, City needs, and resources, these materials shall be updated.

While we have previously noted municipal codes sections for revision, further action was delayed pending adoption of the 2021 LARWQCB MS4 NPDES Permit, which became effective on September 11, 2021. Following our assessment of City enforcement programs effectiveness, CWE will assist in development of relevant draft ordinances, for City Council adoption, to maintain Permit required municipal enforcement authorities. Over the last four years, CWE has used the existing enforcement program to issue over 120 Notice of Violation (NOV) and make LARWQCB State Industrial General Permit (IGP) referrals, alleviating the City of responsibility for those violators, while retaining credit for eliminating their discharges.

Despite limited and conflicting resource information, CWE has successfully submitted the City MS4 NPDES Permit Annual Compliance and Semi-Annual Monitoring Data Reports for four years. Our intent would be to use the revised Los Angeles County Watershed Reporting Adaptive Management & Planning System (WRAMPS II) module, assuming City collection of the required project and reporting data. Semi-Annual monitoring and (June) progress reporting is not in the RFP and would be provided as optional services. Working with City staff, we developed and timely submitted the City Safe Clean Water Program (SCWP) Municipal Program Transfer Agreement (MPTA) Annual (Budget) Plans and (Expenditure) Report; finding an additional \$400K in recoverable expenses, an amount one third higher than our current City contract. Preparation of a Report of Waste Discharge (ROWD), or a permit renewal application, is a once per term, or decade, task that will be due to the LARWQCB on March 11, 2026. The CWE Program Manager has submitted several ROWDs, as municipal and consultant staff, as a basis for negotiation and prioritization.

Gardena is one, of only two, LARWQCB MS4 NPDES Permittees implementing the Statewide Trash Policy reported to be following a Track 2 approach; despite implementing Track 1 methods for nearly a decade. City staff recently asked CWE to divert contract resources to complete an Implementation Plan Study and Track change letter for LARWQCB review and approval. In addition to developing policy and procedures to achieve permit objectives, CWE has identified the Dominguez Channel Toxics Total Maximum Daily Load (TMDL) and Fecal Indicator Bacteria (FIB) objectives as the regulatory drivers for a estimated \$160M in project needs. CWE recently delivered the City facility and activity inventory, with over 20,000 Geographic Information System (GIS)-based records and attributes suitable for recording maintenance and permit compliance data. CWE has collaboratively secured over \$80M, of which the Program Manager is responsible for \$21M, in stormwater related grants for several MS4 Permittees. While always targeting grant opportunities, CWE must limit our commitment to assisting the City with one application per year.

Industrial/Commercial Facilities Inspection Program

Focusing on an LARWQCB Chair, Board Staff, and USEPA Audit Areas of Concern, CWE implemented the City MS4 NPDES Permit Industrial/Commercial (I/C) Facilities Program, by developing a compliant, GIS-based, tracking database, industry specific inspection notification letters, and inspection template forms for City approval. The database was initially populated with about 150 prior non-compliant inspection records, to which we appended applicable City Business License records, after curating the 40% with diverging Business Name, Primary Business Activity (PBA), Standard Industry Classification (SIC), or North American Industrial Classification System (NAICS) data, while providing data revision to City staff. State Stormwater Multiple Application and Report Tacking System (SMARTS) IGP records, including State inspections that reduced City costs, were added resulting in a 1,000 record "universe" tracking database.





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Among the SMARTS data were 160 facilities located in adjacent jurisdictions, while having Gardena US Postal Service Zip Codes, that the state attributed to the City for enforcement purposes. These were isolated into a separate database by jurisdiction and subsequent state enforcement referrals returned with the correct jurisdiction identified. As required by the permit, over 120 facilities were referred to the LARWQCB, for enrollment, as IGP Non-fillers. A similar number were found to be duplicate, or closed, facility records and a smaller number incorrectly identified as potential MS4 Permit I/C facilities, resulting in their SIC code being revised. The January cumulative database, included over 1,700 inspection records, for over 700 facilities, along 100 City Resolution 6166 inspection cost recovery records.

CWE will annually inspect half of the 510 commercial and 210 IGP Notice of Intent (NOI) industrial MS4 NPDES Permit facilities, while about 20 percent of the IGP No Exposure Certification (NEC) facilities would be inspected per year as required by the Permit. Inspection of IGP Non-Filers, previously referred to the LARWQCB, will occur after IGP enrollment to avoid interfering with State actions. Inspections will be professionally performed using digital cameras, binders containing CASQA BMP cutsheets and other references, and the City approved, category specific, inspection forms which include watershed pollutants of concern. The completed forms will be reviewed, scanned, and archived. along with the digital images, then the cumulative City I/C Facility Program Tracking database updated. A "City2Invoice" database of inspections performed, to facilitate cost recovery under City Resolution 6166, and the cumulative tracking database would be electronically delivered quarterly, with the MS4 NPDES Permit I/C Facility Program digital archive delivered annually in June. Should Follow up inspections be required, they would normally occur within four weeks of the prior inspection, unless warranted by specific circumstances. After the initial inspection, two follow up Outreach, and two follow-up compliance inspections may be necessary, potentially resulting in the issuance of two letter Notices of Violation (NoV), normally issued by CWE on City Letterhead, with a concluding LARWQCB referral, with supporting documents, as a recalcitrant MS4 NPDES Permit I/C facility. Newly identified IGP Non-Filer facilities would be referred to the LARWQCB after an initial Outreach and follow up NoV referral inspection.

Development Construction Program

City staff changes, and CWE emphasis on implementing LARWQCB priorities, has resulted in Community Development retaining primary responsibility for the MS4 NPDES Permit Planning, Land Development, and Construction Programs. CWE provided the City with a Microsoft Excel® Construction Site and BMP Inventory Tracking Database template and annually solicited MS4 Permit required Annual Reporting data. To "jumpstart" this program and improve compliance reporting, CWE staff downloaded applicable CGP data from the State Stormwater Multiple Application and Report Tracking System (SMARTS); however, this effort was not represented as a replacement for the identified MS4 Permit elements and programs. CWE has designed dozens of public and private MS4 Permit compliant Priority Development and Capital Improvement Program (CIP) projects, provided hundreds of LID and Water Quality Management Program (WQMP) plan checks, and thousands of CGP implementation inspections, primarily for tightly regulated regional utilities. We are fully prepared to provide the RFP identified level of guidance and assistance to City staff in initiating implementation of these crucial for compliance MS4 NPDES Permit Programs.

Illicit Connection and Illicit Discharge (IC/ID) Elimination Program

While performing environmental monitoring and I/C Facility inspections for the City, CWE has identified and reported, for City staff investigation, several illicit discharges, in one case investigating and collecting



City of Gardena

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water quality samples for an active discharge that was significantly impacting the Dominguez Channel. CWE has solicited the City for IC/ID electronic tracking and reporting data as required for inclusion in the MS4 NPDES Permit Annual Report, while alternatively utilizing our own data, observations, and reports. As characterized in the City RFP, CWE will evaluate, assess, and verify that the existing City policies, procedures, tracking, and reporting practices conform with the renamed Illicit Discharge Detection and Elimination (IDDE) Program identified in the 2021 LARWQCB Regional MS4 NPDES Program. The Outfall Inventory and Non-stormwater discharge programs are CIMP/Environmental Monitoring elements. This program is also partially addressed as an element of the Administrative Training Program Element.

Implement Integrated Monitoring Program

Following LARWQCB rescission of the Conditionally Approved City Integrated Monitoring Program (IMP), CWE was authorized by City staff to negotiate with LARWQCB staff to define and implement a Baseline Monitoring Program, which we have timely and very successfully completed for four consecutive years. Since development of a Monitoring Program Plan by March 10, 2023, for LARWQCB review and approval, was not included in the RFP, we assume the City intends to sign a Memorandum of Agreement (MOA) with the Dominguez Channel WMP Group for Coordinated Integrated Monitoring Program (CIMP) Plan revision and implementation. CWE proposes to provide continuing July 1, 2022, to June 30, 2023, baseline environmental monitoring services only and assume DC CIMP implementation by July 1, 2023. The other RFP tasks, were either completed under the 2012 MS4 NPDES Permit, and delivered to the City, or, for the 2021 MS4 NPDES Permit, should be undertaken following LARWQCB review and approval of the DC WMP Group CIMP and be most cost-effectively addressed in the context of that effort.

Statewide Trash Amendments Submittal

The City is nearly unique in having selected to implement the Statewide Trash Policy using a Track 2 approach, exposing it to a potentially costly and iterative LARWQCB approval processes. Our current City contract included preparing the RFP identified jurisdictional maps, however on January 26, 2022, we were directed to draft a Track Change and Implementation Study letter for LARWQCB review and approval. Anticipating that this effort can be completed under the current contract and that the City is planning to use SCWP MPTA support for Connector Pipe Screen (CPS) construction, CWE only proposes to the annually update the priority land uses, full capture installations, and storm drain network.

Adaptive Management Process Submittal

Since the City is not a part of a LARWQCB approved WMP group, submission of an Adaptive Management Process (AMP) Plan is not required and should be addressed within an MOA if it becomes necessary. Therefore, CWE will not be including this currently unnecessary task in our proposal or budget.

Load Reduction Strategy Implementation Assistance

While CWE has suggested that the City consider aggressive bacteria control strategies, it is not part of the Los Angeles River Watershed or development and implementation of a Load Reduction Strategy; therefore, we will not be including this currently unnecessary task in our proposal or budget.



City of Gardena

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Reasonable Assurance Analysis Update

To the best of our knowledge, the City has never provided a Reasonable Assurance Analysis (RAA) to the LARWQCB for review and approval and should the City join the DC WMP group a revised RAA would be required; therefore, CWE will not be including this currently unnecessary task in our proposal or budget.

Report of Waste Discharge Preparation and Submittal

Permittees, as groups or individuals, must submit a permit renewal application or Report of Waste Discharge (ROWD) to the LARWQCB by March 10, 2026. Our once a decade experience is that the Board arbitrarily declares ROWDs to be inadequate or adequate, for judicial reasons, and then enrolls the reporting Permittee in the next Regional Permit, since Board staff do not want to go through the slow and difficult process of approving multiple MS4 NPDES Permits. CWE will propose to draft, or contribute to, a City ROWD, based on past reporting requirements, subject to renegotiation should the Board substantially deviate from past ROWD practices.

Perform Additional As-Needed NPDES Services

CWE has either previously provided the identified as-needed services to the City, included them in a task item above, or provided similar services to another LARWQCB MS4 NPDES Permittee. We have also previously redirected, under-utilized contract budget, to assist the City in provide additional services that were not requested or insufficiently defined for inclusion in our prior letter proposals. Assisting the City in maintaining MS4 NPDES Permit compliance has always been our highest objective, even when the City has not yet been ready to adopt the implementation priorities that CWE has recommended.

City Responsibilities

To update City NPDES Program folders, CWE would need to be provided remote server or VPN access along with introduction to the City folder management strategy. City staff would retain primary responsibility for City Council Resolution 6166 regarding inspection invoicing and payment tracking. City staff will need to suggest potential training dates and provide access, whereby field staff may attend training presentations. We understand that the City intends to reclaim responsibility for Business License and Senate Bill 205 representation within the MS4 Permit I/C Facility Program tracking database. The RFP requests guidance and assistance with Development Construction Program elements and CWE has offered a minimal task effort and budget, assuming the city will retain primary responsibilities. Plan Check and similar program services, required for 2021 MS4 NPDES Permit Semi-annual Reporting, would be provided as needed for an additional fee. The City is assumed to retain responsibility for joining the Dominguez Channel WMP Group, implementing baseline Permit conditions not requested in this proposal, and directing analysis of City planning and implementation strategies. City will retain responsible for providing and accuracy of MS4 Permit Annual Reporting data in WRAMPS II. City will print educational materials used for public and business outreach. Meetings with the City Program Manager and other permit stakeholders will normally be conducted remotely. The City of Gardena will be responsible for permit required TIE/TRE bioassay analyses costs, which have been unnecessary during the past four years of water quality monitoring.



City of Gardena

Proposal to Provide

National Pollutant Discharge Elimination System Program Management Services

2. Potential Challenges

Having successfully navigated past the enforcement and litigation crossroads, as characterized in the introduction to the Scope of Services first proposal section, the City of Gardena is fast approaching a more challenging fork in its road to MS4 NPDES Permit implementation and compliance. The City can continue with baseline permit implementation, where compliance is assessed based on the attainment of Basin Plan Water Quality Objectives (WQOs) otherwise known as Receiving Water Limitations (RWLs) and Water Quality-Based Effluent Limitations (WQBELs), or be included in a Watershed Management Program (WMP) Plan. Once an individual or group WMP Plan is drafted and approved by the Regional Board, permit compliance is initially assessed based on timely implementation of costly projects and BMPs, then, after the passage of approved TMDL deadlines and WMP Plan completion, the attainment of WQOs.

Since the initial City effort to develop an Individual WMP (IWMP) Plan was unsuccessful, the LARWQCB would likely reject a proposal to revisit that effort; although they might be persuaded by referencing the changes resulting from SWRCB Own Motion Order WQ-20202-0038, adopted on November 17, 2020, and LARWQCB Regional Permit, adopted on July 22, 2021. These Board orders constrain the RAA and WMP preparation process, which typically costs between \$250 and \$500 thousand to undertake, and project cost commitments in a City WMP Plan would likely mirror those for the City in a Dominguez Channel WMP Plan. All WMP plans were resubmitted on June 30, 2021, for LARWQCB review and approval, and substantial Board comments are expected during the last week of February. At the request of Gardena staff, on August 3, 2021, CWE extrapolated from the June 2021 Dominguez Channel, and other, WMP Plans to conjecture a potential City WMP project cost estimate of \$80M over twenty years, with a more likely construction cost estimate of \$160M over the same duration. This cost could be reduced if the nearly two hundred State Industrial General Permit (IGP) Non-Filers identified by CWE, were considered in the RAA, however LARWQCB IGP enrollment has been slow. During March, when the Dominguez Channel RAA and WMP are revised, the City might cost-effectively ask to be included in the formal RAA and WMP analysis, to guide City implementation strategy determination and either join the Dominguez Channel WMP Group, developing a Gardena WMP Plan, or continue with baseline permit compliance.

As set forth in Part III.D.1.b of 2021 MS4 NPDES Permit Attachment E, the City must develop and submit an Integrated Monitoring Program (IMP) Plan, or join the Dominguez Channel WMP Group in submitting a revised Coordinated IMP (CIMP) for LARWQCB approval, by no later than March 11, 2023. Since the RFP did not include this requirement, our proposal assumes one reporting year of continued LARWQCB directed or baseline monitoring, from July 1, 2022, to June 30, 2023, with implementation of the Board approved City IMP or Dominguez Channel WMP Group, and Gardena, CIMP to begin on July 1, 2023. Similarly, our proposal assumes that the Outfall Inventory Update, Water and Suspended Sediment Monitoring, Non-stormwater Outfall Discharge Screening, Significant Flow Monitoring, and Significant Non-stormwater Flow Investigations would be most cost-effectively implemented as a component of the Dominguez Channel WMP Group CIMP Plan, following approval by the LARWQCB Executive Officer. Likewise, this CWE proposal assumes that the City intends to negotiate with the DC WMP Group for submission of environmental monitoring data in California Environmental Data Exchange Network (CEDEN) style format and for annual submission of the June Implementation Progress Report.

Three regulations, one with several subcategories, drive the pollutant source control and compliance analysis for the Dominguez Channel Watershed and the City of Gardena in particular. Trash is regulated under the State Trash Policy, as it is translated into the LARWQCB MS4 NPDES Permit, and the City has



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identified a rational Full Capture System (FCS) Connector Pipe Screen (CPS) construction project, with implementation schedule and SCWP MPTA funding source, to substantially control the discharge of this pollutant category. *Escherichia coli*, or *E. coli*, which is often designated as a Fecal Indicator Bacteria (FIB) when establishing TMDL, is an especially recalcitrant MS4 pollutant, replicating as bio-slimes that coat and sloughs from sediments and MS4 conveyances. While the DC WMP Plan proposed a final compliance target date of 2040 for bacteria and need not report WQO exceedances as incidents of non-compliance, assuming that WMP project implementation is on schedule, the City must annually report exceedances of receiving WQO and outfall discharges that could be found to have caused or contributed to the exceedance. The most challenging regulation is the Dominguez Channel and Greater Los Angeles Harbor Waters Toxic Pollutants TMDL, summarized in Part II of Attachment P to the LARWQCB MS4 NPDES Permit. Gardena mostly discharges to the freshwater portion of the channel, above Vermont Avenue, however this channel, and a small portion of eastern Gardena, discharges into the estuary. The TMDL identifies impairments for metals, Polynuclear Aromatic Hydrocarbons (PAHs), Polychlorinated Biphenyls (PCBs) and legacy organochlorine pesticides, in the water column, sediment, and fish tissue. The current monitoring program has frequently detected metals and PAHs, mostly below interim TMDL concentrations; however, a decade from now, on March 23, 2032, the final WQO become effective and metal WQO will drop to as little as 5% of the current values, due to low hardness values and standards in the California Toxic Rule (CTR). We strongly recommend that the City cooperate and support initiating Copper and Zinc Biotic Ligand Model (BLM), and Lead Recalculation, Site Specific Objective (SSOs) studies, which will likely take five to ten years to complete and approve through the regulatory process.

After repeatedly losing a suit brought by Environmental Non-Governmental Organizations (NGOs), the United States Environmental Protection Agency (USEPA) and LARWQCB, recently proposed to newly implement a Commercial, Industrial, Institutional Residual Designation Authority (CII-RDA) Permit for the Los Cerritos and Dominguez Channel Watersheds. Although currently proposed for large, multiacre, parcels and targeting metals, specifically Copper and Zinc, the workshop proposal would require a new class of Permittees to capture the design, or approximately one inch, design runoff rationale or prove that the runoff meets proposed WQOs through water quality monitoring. Unfortunately, the permit would likely be precedential, and the needs rationale easily extrapolated to address any recalcitrant impairment, such as bacteria from residential or food service facilities. Since the contents, impacts, and implementation schedule of this permit have not yet been published, in even a draft format, we consider this proposed regulation to be challenge beyond the currently requested Scope of Work.

Despite multiple requests for MS4 NPDES Permit required annual implementation and reporting data, response to some data requests have not been forthcoming from some City Departments and the CWE Program Manager has redirected remaining contract budget, with Project Manager authorization, to improve the perceive level of compliance reporting. To continue providing this accommodative level of assistance service will become an increasing challenge, or impossibility, within the proposal budget.

The RFP did not identify scope, or level of effort, for meetings, other than with the City Project Manager, which we have assumed is intentional. We are therefore assuming that the challenge of negotiating with LARWQCB, SWRCB, and other stakeholders will remain with the City Project Manager. Information distribution through, and participation at, the Los Angeles Permit Group, Dominguez Channel WMP Group, and other regulatory and reporting meetings will remain the primary challenge of the City MS4 NPDES Program Manager. Should the City of Gardena require additional out of scope services, CWE would willingly negotiate to provide those services on an On-Call, Time and Materials, or Not to Exceed basis as agreed upon in advance with the City Project Manager or their responsible delegate.



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3. Personnel/Staffing Levels



CWE, a Small Business Enterprise (**SBE**), has provided trusted and distinguished civil infrastructure, water resources, and environmental engineering services and have enhanced the quality of life of our esteemed communities since 2006. We are privileged to have served over 150 public municipalities, utility companies, private businesses, and federal agencies who have benefitted from our promise of **Creating a Better Tomorrow, Today™**. Our award-winning industry leaders actively work to cultivate the

engineering protégés and environmental stewards of tomorrow. We work tirelessly to bring the mastery, creativity, and commitment necessary to deliver forward-thinking results to enhance the communities we live, work, and play in, leaving them better for the next generation. This is the CWE standard.

CWE has been recognized by the Zweig Group as a "Hot Firm" four times and a "Best Firm To Work For" five years in a row. These honors not only highlight CWE's significant business growth, but also reflect our growing staff's sense of purpose and happiness at CWE. We are eager to demonstrate how engaged employees with the same goal of **Creating a Better Tomorrow, Today™** prompt clients to return, and show the City what benefits our dedicated engineers and scientists can bring to your table and fulfill your NPDES compliance and implementation needs. You deserve nothing less than a trailblazing, solutions-oriented firm to help you navigate the complicated regulatory process. CWE is that firm!

3.1 Personnel Length of Time with the Firm and in the Industry

STAFF	Industry	w/ CWE
Dr. Gerry Greene, DEnv, PE, QEP, QSD/P Project Manager	31	9.5
Jason Pereira, PE, CPSWQ, QSD/P, QISP Principal-in-Charge and QA/QC Manager	27	16
Ryan Kearns Monitoring Lead	5	2.5
Allen Xie, PE, QSD/P, QISP Inspection Lead	12	5
Nan Jia, PE, QSD/P Monitoring and Inspection Support	4	3.5
Tammy Takigawa, PE, ENV SP, QSD/P Monitoring and Inspection Support	6.5	6.5
Chris Pendroy, ENV SP, CPSWQ, QSD/P Monitoring and Inspection Support	29	9.5
Alexa Reasoner Monitoring and Inspection Support	4	1

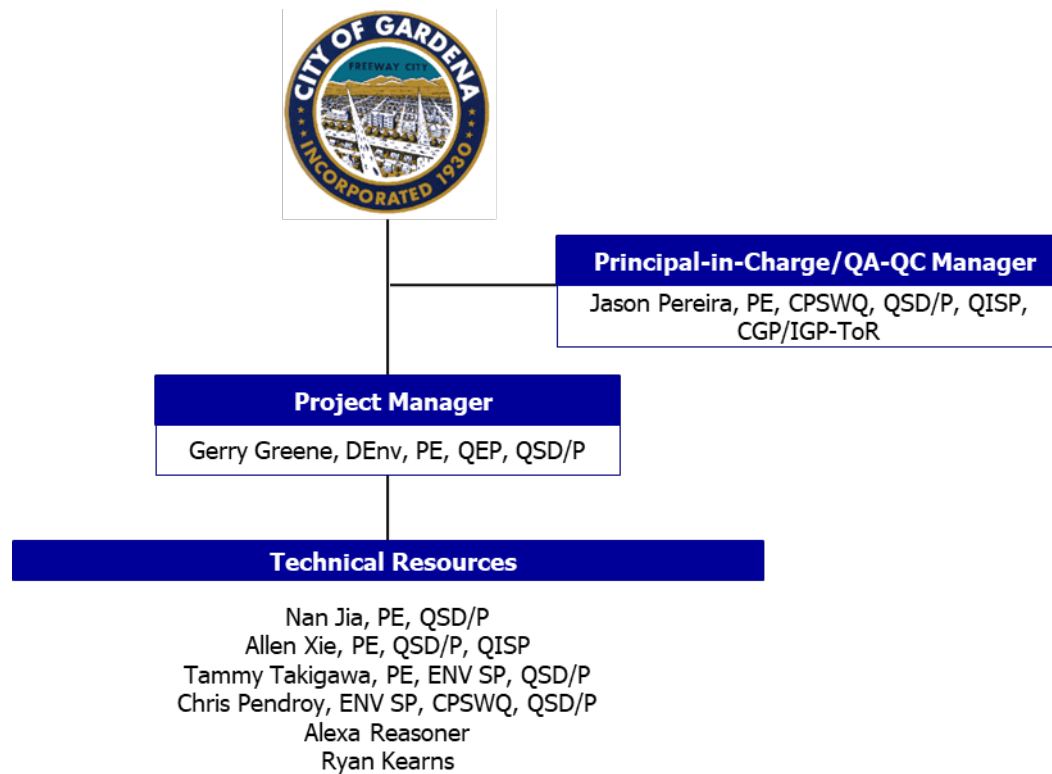


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3.2 Organization Chart



3.3 Meet Your Project Manager



Dr. Gerald "Gerry" Greene, DEnv, PE, QEP, QSD/P is your Project Manager. Gerry has over three decades of experience providing solution

Manager. Gerry has over three decades of experience providing solutions to NPDES MS4 permitting and compliance, data review, water quality monitoring, and inspection challenges nearby clients such as the Cities of Azusa, Covina, Gardena, Glendora, Huntington Beach, Huntington Park, and San Gabriel have faced. Such tasks have involved extensive coordination with watershed groups such as the Rio Hondo/San Gabriel River Water Quality Group (RH/SGRWQG) and Los Angeles River Upper Reach 2 Watershed Management Group (LARUR2 WMG), the Los Angeles RWQCB and the California State Water Resources Control Board (SWRCB). Gerry's

most high-profile contracts as CWE's Director of Stormwater included developing WMPs and EWMPs within Los Angeles County limits and implementing the CIMP plans to assess the impacts of discharges from the MS4 on receiving waters. Additionally, he oversees inspection staff and reviews documentation for a wide variety of stormwater inspection types, including food service establishments. Prior to joining CWE, Gerry worked for 10 years as a Principal Civil Engineer and Stormwater Manager for the City of Downey, where he provided implementation and renewal, program education and outreach, and training assistance as they all related to the MS4 Permit.

3.4 Resumes

Resumes are provided as attachments in **Appendix A** as requested in the City's RFP.





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4. Representative Project Descriptions and Client Reference

To follow please find representative project descriptions and client references for sample relevant work within the last five years.



City of Rosemead MS4 NPDES Permit Inspection Services

CWE provided Industrial/Commercial (I/C), redevelopment construction, and post-construction BMP inspections. Inspection tasks included I/C inspections of approximately 200 food service, 100 automotive repair, 20 retail gasoline outlets, and six (6) nursery facilities; up to four (4) redevelopment construction inspections once per month; post-construction BMP inspections; and incorporating inspection data into an electronic database containing geographic references that allow information to be mapped and integrated into a Geographic Information System (GIS) tracking system. Additional this

contract tasks included: staff training on construction/erosion plan review and permitting, erosion/sediment control plan inspections, and staff Illicit Connection/Illegal Discharge (IC/ID) response; developing activity-specific public education content regarding source control BMPs and use and disposal of pollutants relevant to Rio Hondo Reach 3 and downstream receiving water impairments; redevelopment planning; public facility inventory and inventory of regional BMP development opportunities; identifying regional BMP projects for strategic and cost-effective analyses; public activity management; installing full capture devices and conducting Daily Generation Rate (DGR) studies for trash Total Maximum Daily Load (TMDL) compliance; IC/ID investigation and elimination; and annual reports submitted to the Upper Los Angeles River EWMP Group Lead Agency.

Danielle Garcia, (626) 569-2127, dgarcia@cityofrosemead.org



City of Gardena MS4 NPDES Permit I/C Inspection Services

CWE has been providing the City of Gardena with increasing levels of Los Angeles RWQCB Coastal Los Angeles County Phase I MS4 NPDES Permit services. After being confronted by the Los Angeles RWQCB, regarding irregular and incomplete consultant provided monitoring data, the city approached CWE to review their monitoring and MS4 Permit I/C Facility Inspection Programs. After conferring with Board staff to preclude conflicts for our ongoing clients, CWE prepared an initial compliance assessment of these programs, updated City

Management on our findings, and, on short notice, assumed responsibility for their implementation. After again conferring with Board staff, CWE successfully completed water and suspended sediment quality monitoring at the three sites only to have the State and Regional Board issue a \$714,985 Administrative Civil Liability (ACL) enforcement action for the prior reporting irregularities, while noting potential maximum statutory liabilities of over \$12,000,000. Despite this, CWE continued to provide permitting, interagency negotiations, dry-weather monitoring, outfall inventory, non-stormwater discharge assessment, annual reporting, many hundreds of MS4 I/C inspections, scores of Industrial General Permit (IGP) non-filer referrals, and submission of a State Trash Policy Implementation Plan to the Los Angeles RWQCB. After which and despite apparently successful City initiated litigation against the state, the ACL



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was rescinded. Beginning in Fiscal Year 2020-21, and despite pandemic caused constraints on the City budget, CWE will begin providing the full gamut of 2012 MS4 Permit services and assist the City in planning for cost-effective implementation of the fifth term MS4 NPDES Permit this year.



City of Glendora NPDES and Water Quality Administration

CWE provided NPDES Permit and Water Quality Administration services to assist the City of Glendora with the Los Angeles County MS4 Permit, Construction General Permit (IGP), IGP, and General Permit for Drinking Water System Discharges. Overall services included providing support for the Planning and Land Development, Development Construction, I/C Facilities Control, Public Agency Activities, IC/ID Elimination, and Public Information and Participation Programs. Tasks included program management and regulatory support, Permittee-

owned facility Stormwater Pollution Prevention Plan (SWPPP) preparation, SWPPP and Low Impact Development (LID) Plan review, Enforcement Response Plan development, training, construction and industrial/commercial facility stormwater inspections, representation at Permittee meetings, and TMDL implementation assistance. Inspection information was entered into a Microsoft Access database, and an ArcGIS layer was developed using an attribute table with each commercial/industrial facility's coordinates.

Alison Sweet, (909) (626) 914-8246, asweet@cityofglendora.org



San Bernardino County NPDES Stormwater Program Regulatory Assistance

CWE provided the San Bernardino County Flood Control District (SBCFCD) and its 17 Co-Permittees with on-call NPDES regulatory assistance to comply with the San Bernardino County MS4 Permit since 2007. Services included: preparing an annual report and coordinating with Co-Permittees and stakeholders; public education and outreach services; developing Local Implementation Plans (LIPs) to fulfill MS4 Permit requirements; preparing Stormwater Program documents and

ordinances; conducting post-construction BMP inspections to verify compliance with Water Quality Management Plans (WQMPs) and grading plans and suggested California Stormwater Quality Association (CASQA) design provisions; technical support to execute stormwater permit requirements; qualified SWPPP Qualified SWPPP Developer/Practitioner (QSD/P) training; strategy planning and assistance with the preparation of the Report of Waste Discharge (ROWD) for the Fifth Term MS4 Permit; and regulatory support for a Santa Ana RWQCB audit of the New Development and Redevelopment Program.

Arlene Chun, (909) 387-8109, arlene.chun@dpw.sbcounty.gov

5. Comments Regarding Contract

We have no comments regarding the City's contract as provided in the RFP.





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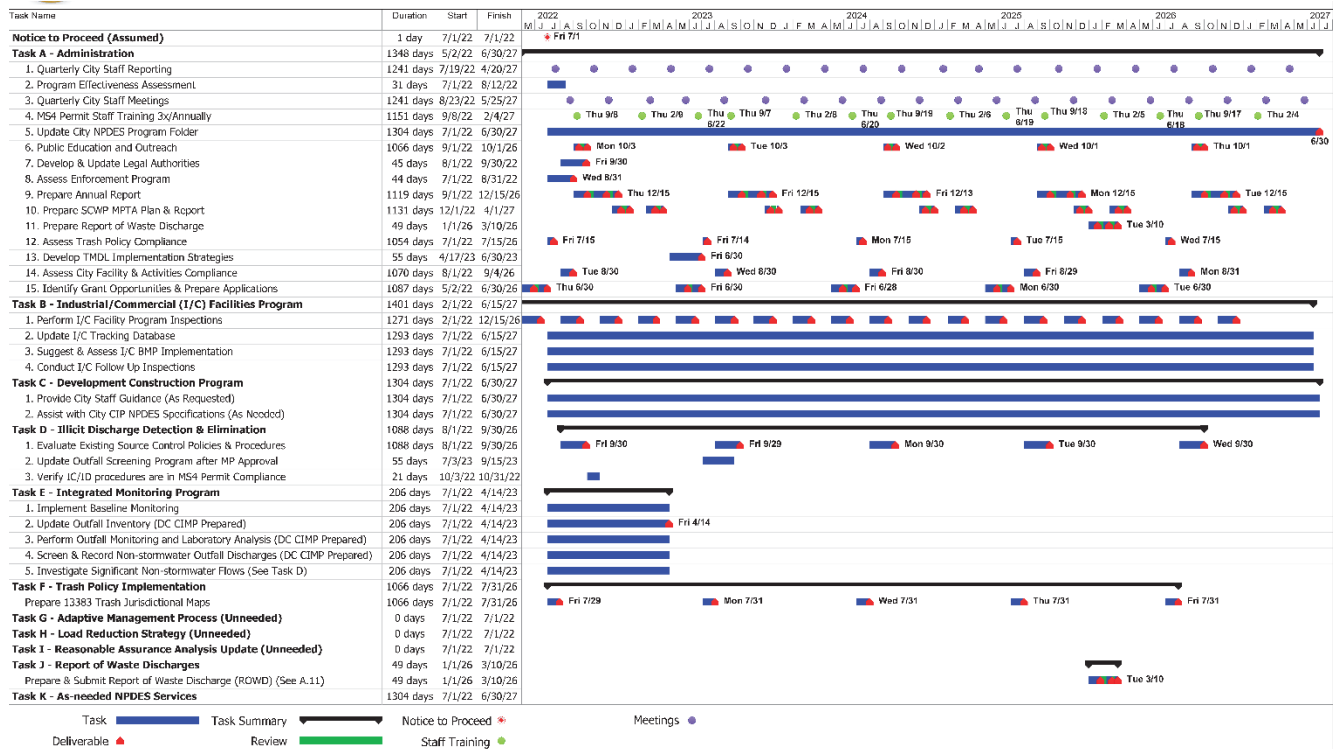
6. Hourly Breakdown by Task

Task	Hours
A Administration	
A.1 Quarterly City Staff Reporting	44
A.2 Program Effectiveness Assessment	48
A.3 Quarterly City Staff Meetings	12
A.4 MS4 Permit Staff Training 3x/Annually	36
A.5 Update City NPDES Program Folder	26
A.6 Public Education and Outreach	26
A.7 Develop & Update Legal Authorities	48
A.8 Assess Enforcement Program	20
A.9 Prepare December Annual Report	56
A.10 Prepare SCWP MPTA Plan & Report	64
A.11 Prepare Report of Waste Discharge	
A.12 Assess Trash Policy Compliance	18
A.13 Develop TMDL Implementation Strategies	28
A.14 Assess City Facility & Activities Compliance	26
A.15 Identify Grant Opportunities & Assist One Application	96
B Industrial/Commercial (I/C) Facilities Program	
B.1 Perform I/C Facility Program Inspections	440
B.2 Update I/C Facility Tracking Database	80
B.3 Suggest & Assess I/C BMP Implementation	24
B.4 Conduct I/C Follow Up Inspections	48
C Development Construction Program	
C.1 Provide City Staff Guidance	40
C.2 Assist with City CIP NPDES Specifications	24
D Illicit Discharge Detection & Elimination	
D.1 Evaluate Existing Source Control Policies & Procedures	24
D.2 Update Outfall Screening Program	4
D.3 Verify IC/ID procedures are in MS4 Permit Compliance	4
E Integrated Monitoring Program	
E.1 Implement Baseline Monitoring	94
E.2 Update Outfall Inventory	
E.3 Perform Outfall Monitoring and Laboratory Analysis	190
E.4 Screen & Record Non-stormwater Outfall Discharges	
E.5 Investigate Significant Non-stormwater Flows	
F Trash Policy Implementation	
F.1 Prepare 13383 Trash Jurisdictional Maps	24
G Adaptive Management Process	
G.1 Prepare Adaptive Management Process bi-annually	
H Load Reduction Strategy	
H.1 Implement LAR Bacteria Load Reduction Strategy	
I Reasonable Assurance Analysis Update	
I.1 Prepare Reasonable Assurance Analysis	
J Report of Waste Discharges	
J.1 Prepare & Submit Report of Waste Discharge (ROWD)	
Total Hours	1544



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7. Schedule



8. Cost Estimates of Consulting Fee

Cost Estimates are provided in a separate file as requested in the City's RFP.



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Appendix A Resumes

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Gerald "Gerry" Greene

DEnv, PE, QEP, QSD/P

Project Manager

Dr. Gerald "Gerry" Greene has provided comprehensive water quality services to Southern California agencies that include development of monitoring plans, conducting water quality sampling, providing water quality monitoring plan review, performing feasibility studies, and assisting agencies with environmental compliance and permitting. Prior to joining CWE, he served as Principal Civil Engineer for the City of Downey for over a decade, and he is well-versed in Los Angeles County preferences, policies, and procedures. Gerry's expansive knowledge of local, societal, and physical conditions adds a valuable dimension to the assistance he provides to Los Angeles County clients.

RELEVANT EXPERIENCE

Los Angeles River Upper Reach 2 Watershed Management Program and Coordinated Integrated Monitoring Program Project Manager for the development of a WMP, CIMP plan, and RAA for the LAR UR2 WMA. Tasks managed include developing a WMP that assesses water quality improvements to ensure compliance with the MS4 Permit and allows the LAR UR2 WMA Permittees to develop a plan that comprehensively evaluates opportunities to implement multi-benefit projects, research and development of the CIMP and RAA, and preparing a CIMP detailing provisions to assess whether inflows are in compliance with MS4 Permit QWBELs and demonstrating that, following the implementation of the WMP practices and projects, discharges originating from within the LAR UR2 WMA will be in compliance with the NPDES MS4 Permit QWBELs and RWLs. Managed the development an RAA that characterizes the water bodies to meet the RWL and QWBEL requirements.

Los Angeles River Upper Reach 2 CIMP Implementation

Project Manager providing the LAR UR2 WMA, through the Gateway Watershed Management Authority (GWMA), with CIMP implementation services. Services provided included preparing a project-specific Health and Safety Plan, QAPP preparation, recommending, specifying, and procuring/leasing monitoring equipment, obtaining permits from the LACFCD, installing receiving water, TMDL, and stormwater outfall sampling stations, GIS outfall inventory, and non-stormwater outfall screening and monitoring. Ongoing services include project management, coordination and meetings, pre-sampling event preparation, tracking inclement weather and activating sampling teams, collecting and analyzing dry- and wet-weather samples from one receiving water and



Years of Experience

31

Education

DEnv, Environmental Science and Engineering,
University of California,
Los Angeles

MS, Biology,
California State University,
Long Beach

BA, Biology and Economics,
University of California,
Los Angeles

Registrations

Civil Engineer, CA, 55597

Qualified Environmental
Professional, 11960237

Qualified SWPPP Developer/
Practitioner, 00176

Awards and Recognition

Storm Water Solutions
magazine, "Industry Icon,"
2015



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TMDL site, and one fixed and six rotating stormwater outfall sites, preparing field logs and site assessment photos, coordination with multiple laboratories and Quality Assurance/Quality Control (QA/QC) of water quality results, data management and report preparation, semi-annual data reporting, water quality data submission in CEDEN format, draft and final annual report preparation, and CIMP evaluation and revision.

City of Rosemead MS4 NPDES Permit Inspection Services Project Manager for providing I/C, redevelopment construction, and post-construction BMP inspections. Inspection tasks included I/C inspections of approximately 200 food service, 100 automotive repair, 20 retail gasoline outlets, and 6 nursery facilities; up to 4 redevelopment construction inspections once per month; post-construction BMP inspections; and incorporating inspection data into an electronic database containing geographic references that allow information to be mapped and integrated into a GIS tracking system. Additional tasks performed included: staff training on construction/erosion plan review and permitting, erosion/sediment control plan inspections, and staff IC/ID response; developing activity-specific public education content regarding source control BMPs and use and disposal of pollutants relevant to Rio Hondo Reach 3 and downstream receiving water impairments; redevelopment planning; public facility inventory and inventory of regional BMP development opportunities; identifying regional BMP projects for strategic and cost-effective analyses; public activity management; installing full capture devices and conducting DGR studies for trash TMDL compliance; IC/ID investigation and elimination; and annual reports submitted to the Upper Los Angeles River EWMP Group Lead Agency.

City of Gardena MS4 Permit Monitoring Program Services Project Manager providing the City of Gardena with increasing levels of Los Angeles RWQCB Coastal Los Angeles County Phase I MS4 NPDES Permit services. After being confronted by the Los Angeles RWQCB, regarding irregular and incomplete consultant provided monitoring data, the City approached CWE to review their monitoring and MS4 Permit I/C Facility Inspection Programs. After conferring with Board staff to preclude conflicts for our ongoing clients, Gerry managed the prepared an initial compliance assessment of these programs, updated City Management on our findings, and, on short notice, assumed responsibility for their implementation. After again conferring with Board staff, Gerry managed the successfully completed water and suspended sediment quality monitoring at the three sites, only to have the State and Regional Board issue a \$714,985 ACL enforcement action for the prior reporting irregularities, while noting potential maximum statutory liabilities of over \$12,000,000. Despite this, permitting, interagency negotiations, dry-weather monitoring, outfall inventory, non-stormwater discharge assessment, annual reporting, many hundreds of MS4 I/C inspections, scores of IGP non-filer referrals, and submission of a State Trash Policy Implementation Plan to the Los Angeles RWQCB were continuously provided.

City of Downey MS4 Permit Professional Services Represented municipal, watershed and regional interests in the interpretation and subsequent implementation of disputed permit terms with state and federal regulatory agencies. Reviewed stormwater SUSMPs for regulatory, design, and drainage compliance. Met with project proponents, outlined SUSMP requirements, and assisted in the identification of 303(d) list, TMDLs, and watershed specific and project specific pollutants of concern. Negotiated terms relating to BMP definitions, retention design volumes, annual reporting requirements, pollutant load reduction strategies, monitoring requirements, implementation schedules, catchment definition, interagency responsibility delegation, annual fees, water quality priorities, budget reporting, certification requirements, analytical chemistry QA/QC, and data interpretation. Successfully clarified permit, reporting, and enforcement related disputes, and indefinitely postponed proposed regulatory actions.



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Jason Pereira, PE, CPSWQ, QSD/P, QISP, CGP/IGP-ToR

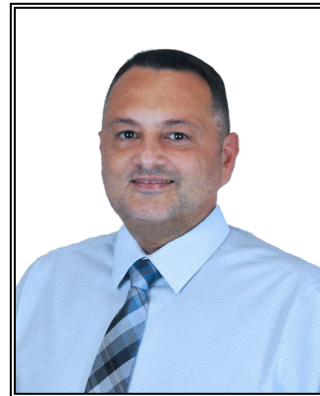
Jason Pereira has 27 years of experience in developing and implementing stormwater management programs for compliance with NPDES Permit requirements. Before co-founding CWE, he was responsible for the development, coordination, implementation, and compliance of stormwater quality management programs for the LACPW. He developed and revised Model Stormwater Programs and other technical guidance documents to describe implementation measures, performed project planning and structural BMP design to enhance water quality and conducted program effectiveness evaluations to determine permit compliance, facilitated Watershed Management Committee and Executive Advisory Committee meetings and corresponded with Los Angeles RWQCB staff, prepared annual reports, performed water quality monitoring, conducted IC/ID investigations, provided SUSMP plan check reviews, and provided I/C facility, municipal yard, and construction site inspections. As a technical expert, Jason has presented numerous workshops on critical water-related issues at CASQA Annual Conferences and other events.

RELEVANT EXPERIENCE

City of Los Angeles Upper Los Angeles River Enhanced Watershed Management Program

Project Manager assisting in the development of an EWMP for the County of Los Angeles, Los Angeles County Flood Control District, and Cities of Alhambra, Burbank, Calabasas, Glendale, Hidden Hills, La Cañada Flintridge, Los Angeles, Montebello, Monterey Park, Pasadena, Rosemead, San Fernando, San Gabriel, San Marino, South Pasadena, and Temple City. Tasks managed included: enhancing water quality measures, assessing discharges from the MS4 on receiving waters, monitoring compliance with the Los Angeles County MS4 Permit, identifying existing control measures, summarizing BMP performance data, developing an effectiveness tracking template for new developments and redevelopments, and assessing RWL and WQBEL compliance.

City of Glendora NPDES and Water Quality Administration Project Manager for ongoing NPDES Permit and Water Quality Administration services to assist with the Los Angeles County MS4 Permit, IGP, and CGP compliance. Tasks include: providing support for the Development Planning and Construction, Industrial/Commercial Facilities Control, Public Agency Activities, IC/ID Elimination, and Public Education Programs; providing program management and regulatory support; conducting a portion of more than 500 FOG inspections and 350 industrial/commercial facility stormwater compliance inspections; corporate yard facility SWPPP preparation; SWPPP and LID plan check review; staff training;



Years of Experience

27

Education

BS, Civil Engineering,
University of California,
Los Angeles

Registrations

Civil Engineer, CA, 61509

Certified Professional in
Storm Water Quality, 527

Qualified SWPPP Developer/
Practitioner, 21

Qualified Industrial
Stormwater Practitioner, 090

Industrial General Permit
Trainer of Record, 090

Construction General Permit
Trainer of Record

Awards and Recognition

Storm Water Solutions
magazine, "Industry Icon,"
2015





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and TMDL implementation assistance. Performed a Program Effectiveness Assessment of the City's Stormwater Management Plan and assessed the FOG Control Program to determine compliance with SSO requirements.

San Bernardino County Areawide Stormwater Program Implementation Assistance

Project Manager for preparing an Annual Report and updating of the MSWMP for the County of San Bernardino Areawide Stormwater Program to meet the requirements for the NPDES MS4 Permit for urban stormwater discharges. Tasks managed include: coordination of meetings with Permittee staff to review the Scope of Work and proposed project schedule, confirm project milestone dates and deliverables, discuss available data sources and the reporting format, clarify MS4 Database use and data collection methods, and review comments received from the RWQCB; data collection in the form of MS4 data templates; review of collected data from the MS4 Database for discrepancies, completeness, and required reporting; analysis of the MS4 Program's effectiveness and compliance with key permit requirements; draft and final annual report preparation; and draft and final update of the MSWMP.

City of Visalia Development of Citywide Stormwater Management Plan Project Manager for the preparation of a citywide Stormwater Management Plan as outlined by the SWRCB Phase II Small MS4 General Permit for stormwater discharges. The 2013 Phase II Small MS4 General Permit identifies permit requirements, including program management, public education and outreach, public involvement and participation, illicit discharge detection and elimination, construction site stormwater runoff control, pollution prevention/good housekeeping for the Permittee Operations Program, post-construction stormwater management, water quality monitoring, program effectiveness assessment and improvement, TMDL compliance, and an annual reporting program. Tasks include: preparing a Stormwater Management Plan and documenting implementation progress and program effectiveness, facilitating public participation during plan development, and preparing a five-year estimate of financial and staffing needs for plan implementation.

City of Carson Stormwater Management and Civil Engineering Services Project Manager for stormwater management and engineering services to comply with the Los Angeles County MS4 Permit, CGP, and Los Angeles River and Dominguez Channel TMDLs. Responsibilities included: program management, representation at the Los Angeles River Watershed Management Committee and Los Angeles River Jurisdictional Group 1 Metals TMDL meetings, Development Planning and Construction Program implementation, SWPPP and SUSMP plan check reviews, City Yard post-construction BMP retrofit investigation, technical review of the Machado Lake Toxics TMDL, development of a City specific Metals TMDL Implementation Plan, a watershed boundary analysis to determine the City's funding and preparation obligations for the Los Angeles River Metals TMDL Implementation Plan, and assistance in procuring a \$2.5-million Greater Los Angeles County Region Integrated Regional Water Management (GLACR IRWM) grant for the installation of 1,800 Automatic Retractable Screen (ARS) catch basins.

City of Santa Clarita NPDES Permit Compliance Services Project Manager for the implementation of stormwater management programs to comply with the Los Angeles County MS4 Permit and CGP. Tasks managed included: reviewing more than 100 SWPPPs and SUSMPs for construction and new development and redevelopment projects; meeting with developers, architects, and engineers to assist with the identification of opportunities to integrate stormwater BMPs and LID strategies into project plans; stormwater compliance training; regulatory support; and assistance with audits conducted by the Los Angeles RWQCB and USEPA.



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National Pollutant Discharge Elimination System Program Management Services

Nan Jia, PE, QSD/P

Nan Jia has four years of experience in technical report writing, database management, water quality monitoring, and water quality data analysis. Her duties have included preparing compliance documents, including: SWPPPs, Exceedance Response Action Plans, and MS4 Program Effectiveness Assessment Annual Reports; assisting municipalities to develop inspection programs and conducting over 600 I/C inspections; conducting CGP inspections for linear projects under the supervision of a QSP; performing water sampling for various watershed groups and construction projects; compiling and reviewing data on Stormwater Multiple Application and Report Tracking System (SMARTS), preparing water quality monitoring data into CEDEN format, and using Excel to conduct statistical data analysis; and leading water quality studies, such as pollutant load analysis for runoff diversion project and BMP effectiveness studies for green street projects.

RELEVANT EXPERIENCE

Rio Hondo San Gabriel River Water Quality Group CIMP Implementation

Monitoring Lead for RH/SGRWQG CIMP implementation services. This group is comprised of the cities of Arcadia, Azusa, Bradbury, Duarte, Monrovia, and Sierra Madre; County of Los Angeles; and LACFCD. Services included preparing a project-specific Health and Safety Plan (HASP), obtaining access permits from the LACFCD, conducting Rio Hondo Pre-Load Reduction Strategy (LRS) monitoring, GIS outfall inventory, and non-stormwater outfall screening and monitoring. Ongoing services include: meeting coordination; weather tracking; dry- and wet-weather water quality monitoring at five receiving water sites, including Peck Road Park Lake and five stormwater outfall sites; preparing field logs and site assessment photos; laboratory coordination; QA/QC of results; data management and report preparation; semi-annual data submission in CEDEN format; and draft and final consolidated annual report preparation.

Los Angeles County Flood Control District Mass Emissions Water Quality Monitoring

Project Manager for mass emissions monitoring, along with preparing the draft Annual Monitoring Report for the LACFCD. Storm event water quality samples were collected from improved and natural conveyances, using both grab and autosampler methods for over 1,140 square miles of tributary watershed area. Specific tasks managed included: Standard Operating Procedures (SOP) development, Operations and Maintenance (O&M) of water quality sampling equipment; inclement weather forecasting and tracking; client, consultant, shift change, and laboratory coordination; preparing and mobilizing two-person sampling crews; collecting grab and composite water quality samples under inclement conditions; conducting field analytical analyses; delivering samples under Chain-of-Custody (CoC) to designated laboratories; and preparing stormwater event field logs and monitoring reports.

San Bernardino County Areawide Stormwater Program Implementation Assistance

Environmental Scientist for preparing an Annual Report and updating of the Municipal Stormwater



Years of Experience

4

Education

MS, Civil and Environmental Engineering,
University of California, Irvine

BS, Environmental Sciences,
University of Minnesota, Twin Cities

Registrations

Civil Engineer, CA, 92333

Qualified SWPPP Developer/
Practitioner, 27876



City of Gardena

Proposal to Provide

National Pollutant Discharge Elimination System Program Management Services

Management Plan (MSWMP) for the County of San Bernardino Areawide Stormwater Program to meet the requirements for the NPDES MS4 Permit for urban stormwater discharges. Tasks include: coordination of meetings with Permittee staff to review the Scope of Work and proposed project schedule, confirm project milestone dates and deliverables, discuss available data sources and the reporting format, clarify MS4 Database use and data collection methods, and review comments received from the RWQCB; data collection in the form of MS4 data templates; review of collected data from the MS4 Database for discrepancies, completeness, and required reporting; analysis of the MS4 Program's effectiveness and compliance with key permit requirements; draft and final annual report preparation; and draft and final update of the MSWMP.

City of Huntington Park MS4 NPDES Permit Inspection Services Inspector providing 20 to 30 MS4 Permit maintenance inspections for I/C facilities and a variety of other inspection services per year to the City of Huntington Park. To alleviate an inspection backlog using funds that would otherwise be lost, CWE developed a business outreach program and then utilized eight staff members to successfully completed 549 facility inspections and visits in only six weeks. Tasks include: updating the City Business License Database to conform with MS4 Permit requirements; establishing business inspection criteria and priorities; developing effective industry-specific outreach letters; preparing inspection checklists and forms; conducting comprehensive field inspections of the facilities, including drainage characteristics reviews, pollutant source identification, and illicit discharge control; documenting observed conditions for education or enforcement; and developing geographic references to facilitate future integration into a GIS tracking system.

City of Huntington Beach Industrial/Commercial, Construction, and FOG Inspections

Environmental Compliance Inspector for providing over 150 I/C inspections and over 1,000 Fats, Oils, and Grease (FOG) inspections for food service locations in the City of Huntington Beach. The I/C inspections are required per the North Orange County MS4 Permit and the FOG inspections under General Pretreatment Regulations (40 CFR Part 403), which requires industrial dischargers to use treatment techniques and management practices to reduce or eliminate the discharge of harmful pollutants to sanitary sewers. Tasks included preparing inspection checklists and forms, conducting I/C and FOG inspections, identifying pollutants and illicit discharges into the storm drain system, documenting observed conditions, providing owners/operators with educational materials to prevent future violations, and incorporating data into an electronic database containing geographic references that allow information to be mapped and integrated into a GIS tracking system.

City of Moreno Valley NPDES Consulting and WQMP Plan Check Services Plan Check Support on Water Quality Management Plans (WQMPs) for the City of Moreno Valley. Receives both preliminary and final WQMPs from developers and performs review services per the NPDES MS4 Permit, Riverside County LID BMP Design Manual, and the Guidance Manual. The task involves careful inspection of submitted documents, deep knowledge of the relevant local ordinances, and frequent communications with developers and with City planning and engineering staff members. Redlined plans, documents, a review checklist, and a comment letter are prepared and returned to the developer (if changes are needed) within 10 days.



City of Gardena

Proposal to Provide

National Pollutant Discharge Elimination System Program Management Services

Tammy Takigawa, PE, ENV SP, QSD/P

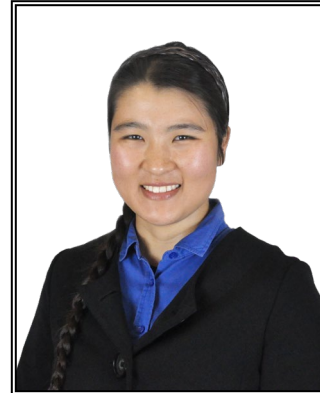
Tammy Takigawa is a professional engineer and has been involved with a variety of civil design, water resources, and stormwater management projects. She has conducted thorough research on several projects for local municipalities, which involved compiling data and records related to utilities, hydrology and hydraulics, existing facility plans, and water quality. Tammy's duties include utilities research, BMP design, LID planning and implementation, permitting, stormwater compliance, and feasibility assessments.

RELEVANT EXPERIENCE

Rio Hondo San Gabriel River Water Quality Group Enhanced Watershed Management Program

This project was the recipient of the 2016 ASCE Metropolitan Los Angeles Branch Outstanding Water Treatment Project of the Year Award. Assistant Engineer for the development of an EWMP for the Rio Hondo/San Gabriel River Water Quality Group to enhance water quality, comply with the MS4 Permit, and provide other multiuse benefits. The Group consists of the County of Los Angeles, LACFCD, and the Cities of Arcadia, Azusa, Bradbury, Duarte, Monrovia, and Sierra Madre. Tasks included: developing project concepts for groundwater recharge and water quality enhancement; developing an EWMP Work Plan, RAA, and CIMP; regional project planning and screening; meetings with the Group to discuss progress; and project schedule and cost estimate development. The project also included the preparation of an NOI to develop the EWMP and CIMP.

City of Los Angeles Proposition O BMP Optimization Water Quality Monitoring Engineer coordinating three wet-weather and three dry-weather monitoring events annually at 10 Proposition O project locations. Tasks include: development of a Proposition O monitoring plan and Quality Assurance Project Plan (QAPP), weather forecasting and tracking, coordination of sampling events with the City of Los Angeles' Emergency Management Department (EMD), sample bottle preparation, field analytical analysis, field observation logging, collection and delivery of samples, data processing and analysis, and event summary technical memorandums. Monitoring is conducted at a total of thirty-five sites among the following Proposition O locations: Echo Park Lake, Grand Boulevard Tree Wells, Hansen Dam Wetlands Restoration, Imperial Highway Sunken Median, Mar Vista Recreation Center, Oros Green Street, Peck Park Canyon Enhancement, Penmar Water Quality Improvement, South LA Wetlands, and Westside Park Irrigation. Various sites provide safety challenges, including lakes, median strips, underground vaults, and vehicle traffic. Monitoring includes analysis of constituents such as nutrients, metals, algae, bacteria, and pesticides. Results are analyzed in comparison with applicable limitations due to Total Maximum Daily Loads (TMDLs), California Toxic Rule (CTR), the basin plan, and Municipal Separate Storm Sewer System (MS4) permit requirements. Results are utilized to assess Best Management Practice (BMP)



Years of Experience

6.5

Education

BS, Civil Engineering,
California State University,
Long Beach

Registrations

Civil Engineer, CA, 92021

Envision™ Sustainability
Professional Credential,
21840

Qualified SWPPP Developer/
Practitioner, 27889



City of Gardena

Proposal to Provide

National Pollutant Discharge Elimination System Program Management Services

functionality and effectiveness in order to make recommendations and coordinates with the City and other consultants to identify program challenges and accomplishments.

San Bernardino County Flood Control District On-Call Professional Engineering and Regulatory Compliance Services for NPDES Phase I MS4 Permit Implementation

Assistance Assistant Engineer for as-needed NPDES Phase I MS4 Permit Implementation Assistance services provided to the County of San Bernardino and SBCFCD. Services performed include: collecting ROWD data, attending an Orange County MS4 Permit hearing on the County's behalf, providing staff augmentation with CG Resource Management and Engineering, preparing a Proposition 1 planning grant workplan and application for a Stormwater Resource Plan, post-construction BMP inspections, LIP preparation for both the County and SBCFCD, and assisting with regulatory support for a Santa Ana RWQCB audit of the New Development and Redevelopment Program.

San Bernardino County NPDES Stormwater Program Regulatory Assistance and Related Services

Assistant Engineer for providing On-Call NPDES Permit Compliance Services to the San Bernardino County Flood Control District (SBCFCD) and 17 Co-Permittees. Services provided included: QSD/P training, development of a model stormwater and LID ordinance, assistance with a Regional Board audit of the County's New Development and Redevelopment Program, annual report preparation and coordination, development of the County and Flood Control District Local Implementation Plans, Stormwater Management Plan implementation assistance, and technical support to execute stormwater permit requirements.

City of Glendora NPDES and Water Quality Administration Assistant Engineer for ongoing NPDES Permit and Water Quality Administration services to assist the City with Los Angeles County Municipal NPDES Stormwater Permit, IGP, and CGP compliance. Tasks include: providing support for the Development Planning and Construction, Industrial/Commercial Facilities Control, Public Agency Activities, IC/ID Elimination, and Public Education Programs; providing program management and regulatory support; conducting a portion of more than 600 FOG inspections and 350 industrial/commercial facility stormwater compliance inspections; corporate yard facility SWPPP preparation; SWPPP and LID Plan check review; staff training (Industrial SWPPP, IC/ID, Public Agency Activities, FOG, and LID Plan review); representation at Permittee meetings; and TMDL implementation assistance. Performed a Program Effectiveness Assessment of the City's Stormwater Management Plan and assessed the FOG Control Program to determine compliance with SSO requirements.

Los Angeles River Upper Reach 2 CIMP Implementation Monitoring Support for CIMP implementation services provided for the LAR UR2 WMA, through the GWMA. This group is comprised of the Cities of Bell, Bell Gardens, Commerce, Cudahy, Huntington Park, Maywood, Vernon, and the LACFCD. Services provided have included preparing a project-specific HASP; QAPP preparation; obtaining access and encroachment permits from the USACE, LACFCD, and local municipalities; GIS outfall inventory; and non-stormwater discharge outfall screening. Ongoing services include meeting coordination, weather tracking, dry- and wet-weather water quality monitoring at two fixed and six rotating stormwater outfall sites, preparing field logs and site assessment photos, laboratory coordination, QA/QC of results, data management, report preparation, semi-annual CEDEN format data submission, and draft and final annual report preparation.



City of Gardena

Proposal to Provide

National Pollutant Discharge Elimination System Program Management Services

Ryan Kearns

Ryan Kearns has five years of experience in watershed management, environmental compliance, and water quality sampling. Prior to joining CWE, he worked as the Project Coordinator for Inland Empire Waterkeeper, where he conducted surface water quality monitoring, stormwater litigation monitoring and public outreach within the middle to upper Santa Ana Watershed. He now assists lead scientists and engineers in environmental compliance permitting, water quality sampling, and preparing water quality monitoring plans and reports.

RELEVANT EXPERIENCE

City of Rosemead MS4 NPDES Permit Inspection

Services Inspector for providing I/C, redevelopment construction, and post-construction BMP inspections for the City of Rosemead. Inspection tasks included I/C inspections of approximately 200 food service, 100 automotive repair, 20 retail gasoline outlets, and 6 nursery facilities; up to 4 redevelopment construction inspections once per month; post-construction BMP inspections; and incorporating inspection data into an electronic database containing geographic references that allow information to be mapped and integrated into a GIS tracking system. Additional tasks performed included: staff training on construction/erosion plan review and permitting, erosion/sediment control plan inspections, and staff IC/ID response by one of CWE's registered QISPs; developing activity-specific public education content regarding source control BMPs and use and disposal of pollutants relevant to Rio Hondo Reach 3 and downstream receiving water impairments; redevelopment planning; public facility inventory and inventory of regional BMP development opportunities; identifying regional BMP projects for strategic and cost-effective analyses; public activity management; installing full capture devices and conducting DGR studies for trash TMDL compliance; IC/ID investigation and elimination; and annual reports submitted to the Upper Los Angeles River EWMP Group Lead Agency.

City of Visalia Citywide Stormwater Management Plan Development Environmental Scientist for the preparation of a citywide Stormwater Management Plan as outlined by the SWRCB Phase II Small MS4 General Permit for stormwater discharges. The 2013 Phase II Small MS4 General Permit identifies permit requirements, including program management, public education and outreach, public involvement and participation, illicit discharge detection and elimination, construction site stormwater runoff control, pollution prevention/good housekeeping for the Permittee Operations Program, post-construction stormwater management, water quality monitoring, program effectiveness assessment and improvement, TMDL compliance, and an annual reporting program. Tasks include: preparing a Stormwater Management Plan and documenting implementation progress and program effectiveness, facilitating public participation during plan development, and preparing a five-year estimate of financial and staffing needs for plan implementation.



Years of Experience

5

Education

BS, Chemical Engineering,
University of California,
Riverside



City of Gardena

Proposal to Provide

National Pollutant Discharge Elimination System Program Management Services

Santa Ana Watershed Project Authority Water Quality Study Impact of Homelessness

Environmental Scientist for the development of a preliminary monitoring plan to assess potential impacts to water quality, riparian areas, and aquatic habitats from the presence of homeless encampments in the Upper Santa Ana River Watershed. While homeless encampments have the potential to impact water quality in a number of ways, including through trash and wildfires, data that directly links homeless encampments to water quality impairment is limited. The monitoring plan was prepared in alignment with California SWRCB protocols to quantify homelessness impacts on water quality. The preliminary monitoring plan and approach was presented to the SAWPA Commission and Middle Santa Ana River TMDL Task Force. Through the future implementation of this monitoring program, SAWPA and watershed stakeholders will be able to analyze collected data points and trends to make critical decisions and prioritize resources to reduce and/or eliminate the most significant contributors to water quality and habitat degradation.

Santa Ana Watershed Project Authority Middle Santa Ana River Bacteria TMDL

Monitoring Program Implementation Monitoring Support performing water quality monitoring services to assist the Santa Ana Watershed Project Authority (SAWPA) with Bacteria TMDL compliance through implementing the Santa Ana River Watershed Bacteria Monitoring Plan and QAPP. The program covers the entire Santa Ana River Watershed, including the southwestern part of San Bernardino County, northwestern part of Riverside County, and a small portion of Los Angeles County. Tasks include: calibrating and maintaining field meters; preparing CoC forms; obtaining and labeling sample containers; decontaminating sample collection materials using the disinfection/rinse method; collecting grab samples at various creeks, rivers, and channels during dry- and wet-weather events; making field observations, photo documentation, and recording observational data; operating field meters for measuring field parameters for temperature, dissolved oxygen, conductivity, turbidity, and pH; and delivering the samples under CoC to the laboratory within limited sample hold times.

City of Gardena MS4 Permit Monitoring Program Services Monitoring and Inspection Support providing the City of Gardena with increasing levels of Los Angeles RWQCB Coastal Los Angeles County Phase I MS4 NPDES Permit services. After being confronted by the Los Angeles RWQCB, regarding irregular and incomplete consultant provided monitoring data, the City approached CWE staff to review their monitoring and MS4 Permit I/C Facility Inspection Programs. After conferring with Board staff to preclude conflicts for our ongoing clients, an initial compliance assessment of these programs was prepared, updated City Management on the findings, and, on short notice, assumed responsibility for their implementation.

Los Angeles River Upper Reach 2 CIMP Implementation Monitoring Lead providing the LAR UR2 WMA, through the GWMA, with CIMP implementation services. Services provided included preparing a project-specific Health and Safety Plan, QAPP preparation, recommending, specifying, and procuring/leasing monitoring equipment, obtaining permits from the LACFCD, installing receiving water, TMDL, and stormwater outfall sampling stations, GIS outfall inventory, and non-stormwater outfall screening and monitoring. Ongoing services include project management, coordination and meetings, pre-sampling event preparation, tracking inclement weather and activating sampling teams, collecting and analyzing dry- and wet-weather samples from one receiving water and TMDL site, and one fixed and six rotating stormwater outfall sites, preparing field logs and site assessment photos, coordination with multiple laboratories and QA/QC of water quality results, data management and report preparation, semi-annual data reporting, water quality data submission in CEDEN format, draft and final annual report preparation, and CIMP evaluation and revision.



City of Gardena

Proposal to Provide

National Pollutant Discharge Elimination System Program Management Services

Allen Xie, PE, QSD/P, QISP

Allen Xie has 12 years of experience in SWPPP development, inspections, monitoring, hydraulic analysis, and civil design. He has performed duties including developing SWPPPs for industrial and municipal facilities, conducting environmental monitoring for industrial facilities, conducting groundwater monitoring, performing hydraulic analysis, conducting site assessments, conducting hydraulic studies, analyzing lab and field data to comply with regulatory permits, preparing traffic control studies, preparing and submitting compliance reports, and preparing seismic calculations for treatment structures. Allen has conducted inspections in remote locations for utility substations, landfills, and wastewater treatment plants to assess BMP implementation and effectiveness and good housekeeping measures.

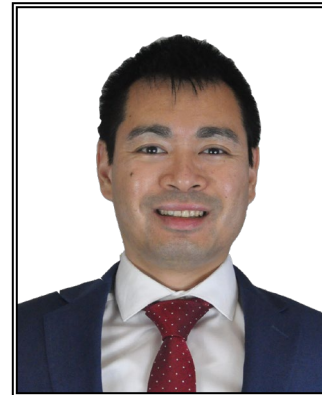
RELEVANT EXPERIENCE

Los Angeles County Public Works On-Call

Environmental Compliance Management

Environmental Compliance Manager I assisting the LACPW's Environmental Compliance Project Manager and representing County's interests in the management of environmental compliance services for construction projects, including dewatering, and the excavation, handling and disposal of contaminated soil and water in addition to other hazardous materials, and noise and air concerns. Tasks include, but are not limited to, site assessment and mitigation reports; investigations including field exploratory borings and analytical testing of the soil and water samples; reviewing construction plans, contract specifications, special provisions, and other documents; obtaining NPDES and Waste Discharge Requirement (WDR) permits for dewatering treatment systems, surface water diversion systems, and groundwater monitoring wells; preparing SWPPPs and conducting stormwater compliance training for appropriate staff; maintaining an in-house staff of professionals certified to perform asbestos or lead-based paint surveys; South Coast Air Quality Management District (SCAQMD) Rule 402, 403, 1166, 1466 and visual emissions evaluations; emission standards and regulations for vehicles; noise monitoring and mitigation; and work plan, HASP, and sampling and quality assurance document review.

City of Glendora Industrial/Commercial Facility Inspections Senior Engineer performing I/C facility inspections in compliance with the 2012 MS4 Permit for the City of Glendora. Tasks include: identifying I/C facilities requiring inspections and performing I/C facility inspections for 605 locations. Additional tasks include: notation of BMPs implementation, assessment of BMP effectiveness, identification of BMP deficiencies, documentation of non-stormwater discharges and illicit connections, noting missing BMPs that are identified in the facility's SWPPP, photographing areas of concern, and working with the facility manager and/or responsible party to identify deficiencies and provide examples of BMP solutions to implement and mitigate the deficient condition.



Years of Experience

12

Education

MS, Civil Engineering,
California State University,
Fullerton

BS, Civil Engineering,
California State Polytechnic
University, Pomona

Registrations

Civil Engineer, CA, 85112

Qualified SWPPP
Developer/Practitioner,
C85112/27157

Qualified Industrial
Stormwater Practitioner,
PE85112



City of Gardena

Proposal to Provide

National Pollutant Discharge Elimination System Program Management Services

City of Huntington Park MS4 NPDES Permit Inspection Services Inspector providing urban stormwater inspection services to assist the City of Huntington Park with MS4 Permit compliance. Successfully completed 549 inspections and facility visits over six consecutive weeks in 2016 as part of an organized team. Tasks performed included establishing inspection criteria, preparing inspection checklists and forms, conducting IGP and FOG inspections, comprehensive field inspections, including drainage characteristics reviews and post-construction BMPs, identification of pollutants and illicit discharges into the storm drain system, documenting observed conditions, providing educational materials, and incorporating data into an electronic database containing geographic references that allow the information to be mapped and integrated into a GIS tracking system.

Water Replenishment District of Southern California Staff Augmentation for Permitting Support Services Permitting Support providing more than 2,200 hours of staff augmentation from September 2019 to December 2021 for services under the instructions of the Water Quality and Regulatory Compliance Specialist. Tasks to cover the Water Replenishment District of Southern California's (WRD's) 420-square-mile service area include preparing, filing and maintaining all regulatory applications, reports, and records for NPDES permits, WDR permits, IGPs, Title 22 Engineering Reports, and five-year engineering reports; managing various permits and making modifications and renewals as necessary; reviewing water quality data, laboratory reports, and operation data; QA/QC of monthly, bimonthly, quarterly, semi-annual, and annual reports; communicating with operations staff, laboratory staff, and WRD staff as necessary to complete tasks; QA/QC of WRD's water quality database and historian operation database; and reviewing and documenting current regulating reporting process in preparation of formulating standard operating procedures.

City of Los Angeles Proposition O BMP Optimization Water Quality Monitoring Monitoring Support responsible for coordinating eight wet-weather and seven dry-weather monitoring events, over three years, at up to 35 sites spread among eleven Proposition O BMP project locations. Tasks include: development of a Monitoring Plan and QAPP, weather forecasting and tracking, coordination of sampling events with the City of Los Angeles' Environmental Monitoring Division (EMD), sample bottle preparation, field analytical analysis, field observation logging, collection and delivery of samples, data processing and analysis, and event summary technical memorandums. Various sites provide safety challenges, including lakes, median strips, underground vaults, and vehicle traffic. Monitoring includes analysis of constituents such as nutrients, metals, algae, bacteria, and pesticides. Results are analyzed in comparison with applicable limitations due to TMDLs, California Toxics Rule (CTR), the basin plan, and MS4 permit requirements. Results are utilized to assess BMP functionality and effectiveness in order to make recommendations and coordinates with the City and other consultants to identify program challenges and accomplishments.

City of San Gabriel I/C and FOG Inspections Senior Engineer for providing I/C and FOG food service and restaurant inspection services to the City of San Gabriel. The City developed an EWMP Plan, approved by the Los Angeles RWQCB, that requires the City to identify track, educate, and verify implementation of runoff pollutant source control BMPs at all I/C facilities. The MS4 Permit also requires Permittees to conduct commercial inspections at food service, automotive repair, retail gasoline outlet, and nursery centers. Additional tasks included drafting I/C facility inspection notification letters, inspection forms, and bilingual BMP factsheets; conducting inspections; and incorporating data into an I/C Facility Inspection Excel™ database and converting it to ArcGIS shapefiles.



City of Gardena

Proposal to Provide

National Pollutant Discharge Elimination System Program Management Services

Alexa Reasoner

Alexa is an environmental scientist with broad experience conducting research for environmental, aerial, and topographic reports; assisting on environmental planning projects; fire insurance map development; SWPPP development and reporting; inputting data entry into clients' desired databases; conducting field sampling; and completing chain-of-custody paperwork for sampling events. She recently received a GIS accreditation from the University of California, Los Angeles Extension Program, making her well-equipped to handle data set collection and mapping responsibilities using existing software and applications.

RELEVANT EXPERIENCE

City of Gardena MS4 Permit, Water Quality Monitoring, and Compliance Services Environmental Scientist for the development of public outreach materials as part of the requirements for Public Information and Participation Program to maintain coverage under the NPDES Phase I MS4 Permit issued by the County of Los Angeles. Tasks include advertising and announcing stormwater pollution prevention and disseminate information of proper handling and disposing of possible pollutants.

City of Visalia Citywide Stormwater Management Plan Development Environmental Scientist for the development of the Enforcement Response Plan to maintain coverage under the NPDES Phase II MS4 General Permit and to establish legal authority to employ enforcement actions to correct violations pertaining to non-stormwater or unauthorized discharges. The 2013 Phase II Small MS4 General Permit identifies permit requirements, including program management, public education and outreach, public involvement and participation, illicit discharge detection and elimination, construction site stormwater runoff control, pollution prevention/good housekeeping for the Permittee Operations Program, post-construction stormwater management, water quality monitoring, program effectiveness assessment and improvement, TMDL compliance, and an annual reporting program. Tasks include: preparing a Stormwater Management Plan and documenting implementation progress and program effectiveness, facilitating public participation during plan development, and preparing a five-year estimate of financial and staffing needs for plan implementation.

Los Angeles County Flood Control District Mass Emissions Water Quality Monitoring

Environmental Scientist for mass emissions monitoring, along with preparing the draft Annual Monitoring Report for the LACFCD. Storm event water quality samples were collected from improved and natural conveyances, using both grab and autosampler methods for over 1,140 square miles of tributary watershed area. Specific tasks managed included: Standard Operating Procedures (SOP) development, Operations and Maintenance (O&M) of water quality sampling equipment; inclement weather forecasting and tracking; client, consultant, shift change, and laboratory coordination; preparing and mobilizing two-person sampling crews; collecting grab and composite water quality samples under inclement conditions; conducting field analytical analyses; delivering samples under Chain-of-Custody (CoC) to designated laboratories; and preparing stormwater event field logs and monitoring reports.



Years of Experience

4

Education

BS, Environmental Science and Policy, 2015,
California State University,
Long Beach

Registrations

OSHA 40-Hour HAZWOPER,
No. 2102191363122

CWE FEE PROPOSAL

6. **Hourly Breakdown by Task** – The proposal shall provide a table that identifies each subtask and the number of hours assigned to each team member for the task. This provides the City with information on the consultant’s understanding of the level of effort needed for the services. The consultant will not be held to the allocation of hours by subtask as the project moves forward, but will be held to the not to exceed amount identified in the cost estimate for the consulting fee.
7. **Schedule** – The proposal shall provide a schedule for the entire project and identify each deliverable in the schedule. The Consultant shall assume two weeks for City review of all draft documents. All other reviews will be completed within three to five business days.
8. **Cost Estimates of Consulting Fee** – Each proposal shall include service specific fees. The costs are to be broken down by services listed in the Scope of Services and shall indicate the proposed level of effort by staff, sub-consultants, and other overhead costs. A fee schedule outlining hourly rates of the staff levels shall also be included. Additionally, provide the annual total, three (3) years total, optional two (2) year total and its grant total as such:

	Three (3) years base service amount per year
FY 2022-2023	\$ 269,400
FY 2023-2024	\$ 202,739
FY 2024-2025	\$ 217,054
Total	\$ 689,193
	Two (2) years optional service amount per year
FY 2025-2026	\$ 252,308
FY 2026-2027	\$ 240,601
Total	\$ 492,909
Grant Total	\$ 1,182,102

Consultant estimates shall be placed in a separate sealed envelope.

5.0 QUALIFICATIONS

The City intends to select the most qualified consultant available for this assignment that demonstrates a thorough understanding of the City’s needs and the ability to deliver the project in a reasonable timeframe and for a reasonable fee. It is imperative the Consultant’s proposal fully addresses all aspects of the RFP. The proposal must clearly articulate the Consultant’s understanding of the services and the City’s specific requirements.

The City intends to rank the consultants based on the following factors (not necessarily listed in the order of importance):

- Service approach and understanding
- Approach to potential challenges
- Anticipated staffing levels
- Qualifications and experience of proposed team members, including Program Manager and sub-consultants, on similar services



City of Gardena NPDES Program Management Services

Professional Service Fee FY22-23

Prepared by CWE on 2/19/2022

Prepared by CWE on 2/19/2022			Principal	Sr. Project Manager	Senior Env Sci	Env Scientist	Env Analyst	GIS Specialist	Mileage	ODCs
Task		Total	\$283	\$270	\$169	\$135	\$101	\$132	\$0.585	
A	Administration									
A.1	Quarterly City Staff Reporting	\$10,668		32	12					
A.2	Program Effectiveness Assessment	\$7,560		8	20		20			
A.3	Quarterly City Staff Meetings	\$3,240		12						
A.4	MS4 Permit Staff Training 3x/Annually	\$7,560		20	8		8			
A.5	Update City NPDES Program Folder	\$3,170			8		18			
A.6	Public Education and Outreach	\$3,508		2	8		16			
A.7	Develop & Update Legal Authorities	\$8,920		8	40					
A.8	Assess Enforcement Program	\$3,784		4	16					
A.9	Prepare December Annual Report	\$9,448		16	16		24			
A.10	Prepare SCWP MPTA Plan & Report	\$10,800		16	24		24			
A.11	Prepare Report of Waste Discharge	\$0								
A.12	Assess Trash Policy Compliance	\$2,948		2	8			8		
A.13	Develop TMDL Implemenation Strategies	\$4,048		4	8		16			
A.14	Assess City Facility & Activities Compliance	\$3,579		2	8		16		120	
A.15	Identify Grant Opportunities & Assist One Application	\$14,528		16	24		40	16		
B	Industrial/Commercial (I/C) Facilities Program									
B.1	Preform I/C Facility Program Inspections	\$62,924		40	100	100	200		1750	\$500
B.2	Update I/C Facility Tracking Database	\$13,600		20	30		30			\$100
B.3	Suggest & Assess I/C BMP Implementation	\$4,960		4	20					\$500
B.4	Conduct I/C Follow Up Inspections	\$8,240		8	20	20				
C	Development Construction Program									
C.1	Provide City Staff Guidance	\$6,279		8	8	8	16		120	
C.2	Assist with City CIP NPDES Specifications	\$4,935		8	16				120	
D	Illicit Discharge Detection & Elimination									
D.1	Evaluate Existing Source Control Policies & Procedures	\$4,864		8	16					
D.2	Update Outfall Screening Program	\$676			4					
D.3	Verify IC/ID procedures are in MS4 Permit Compliance	\$676			4					
E	Integrated Monitoring Program									
E.1	Implement Baseline Monitoring	\$22,033		10	32	32	20		800	\$7,117
E.2	Update Outfall Inventory	\$0								
E.3	Perform Outfall Monitoring and Laboratory Analysis	\$42,832		20	90	60	20		1920	\$10,978
E.4	Screen & Record Non-stormwater Outfall Discharges	\$0								
E.5	Investigate Significant Non-stormwater Flows	\$0								
F	Trash Policy Implementation									
F.1	Prepare 13383 Trash Jurisdictional Maps	\$3,620		4	4		8	8		
G	Adaptive Management Process									
G.1	Prepare Adaptive Management Process bi-annually	\$0								
H	Load Reduction Strategy									
H.1	Implement LAR Bacteria Load Reduction Strategy	\$0								
I	Reasonable Assurance Analysis Update									
I.1	Prepare Reasonable Assurance Analysis	\$0								
J	Report of Waste Discharges									
J.1	Prepare & Submit Report of Waste Discharge (ROWD)	\$0								
Total Fee and Hours		\$269,400	0	272	544	220	476	32	\$2,826	\$19,195

All Direct Expense Costs are billed at Cost + 10%



City of Gardena NPDES Program Management Services

Professional Service Fee FY23-24

Prepared by CWE G2 on 2/14/2022

			Principal	Sr. Project Manager	Senior Env Sci	Env Scientist	Env Analyst	GIS Specialist	Mileage	OOCs
Task		Total	\$311	\$297	\$186	\$149	\$111	\$145	\$0.640	
A	Administration									
A.1	Quarterly City Staff Reporting	\$11,736		32	12					
A.2	Program Effectiveness Assessment	\$0								
A.3	Quarterly City Staff Meetings	\$3,564		12						
A.4	MS4 Permit Staff Training 3x/Annually	\$8,316		20	8		8			
A.5	Update City NPDES Program Folder	\$3,486			8		18			
A.6	Public Education and Outreach	\$3,858		2	8		16			
A.7	Develop & Update Legal Authorities	\$0								
A.8	Assess Enforcement Program	\$0								
A.9	Prepare December Annual Report	\$10,392		16	16		24			
A.10	Prepare SCWP MPTA Plan & Report	\$11,880		16	24		24			
A.11	Prepare Report of Waste Discharge	\$0								
A.12	Assess Trash Policy Compliance	\$3,242		2	8			8		
A.13	Develop TMDL Implementation Strategies	\$4,452		4	8		16			
A.14	Assess City Facility & Activities Compliance	\$3,935		2	8		16		120	
A.15	Identify Grant Opportunities & Assist One Application	\$15,976		16	24		40	16		
B	Industrial/Commercial (I/C) Facilities Program									
B.1	Perform I/C Facility Program Inspections	\$69,250		40	100	100	200		1750	\$550
B.2	Update I/C Facility Tracking Database	\$14,960		20	30		30			\$110
B.3	Suggest & Assess I/C BMP Implementation	\$5,458		4	20					\$550
B.4	Conduct I/C Follow Up Inspections	\$9,076		8	20	20				
C	Development Construction Program									
C.1	Provide City Staff Guidance	\$6,909		8	8	8	16		120	
C.2	Assist with City CIP NPDES Specifications	\$5,429		8	16				120	
D	Illicit Discharge Detection & Elimination									
D.1	Evaluate Existing Source Control Policies & Procedures	\$5,352		8	16					
D.2	Update Outfall Screening Program	\$744			4					
D.3	Verify IC/ID procedures are in MS4 Permit Compliance	\$744			4					
E	Integrated Monitoring Program									
E.1	Implement Baseline Monitoring	\$0								
E.2	Update Outfall Inventory	\$0								
E.3	Perform Outfall Monitoring and Laboratory Analysis	\$0								
E.4	Screen & Record Non-stormwater Outfall Discharges	\$0								
E.5	Investigate Significant Non-stormwater Flows	\$0								
F	Trash Policy Implementation									
F.1	Prepare 13383 Trash Jurisdictional Maps	\$3,980		4	4		8	8		
G	Adaptive Management Process									
G.1	Prepare Adaptive Management Process bi-annually	\$0								
H	Load Reduction Strategy									
H.1	Implement LAR Bacteria Load Reduction Strategy	\$0								
I	Reasonable Assurance Analysis Update									
I.1	Prepare Reasonable Assurance Analysis	\$0								
J	Report of Waste Discharges									
J.1	Prepare & Submit Report of Waste Discharge (ROWD)	\$0								
Total Fee and Hours		\$202,739	0	222	346	128	416	32	\$1,350	\$1,210

All Direct Expense Costs are billed at Cost + 10%



City of Gardena NPDES Program Management Services

Professional Service Fee FY24-25

Prepared by CWE G2 on 2/14/2022

		Principal	Sr. Project Manager	Senior Env Sci	Env Scientist	Env Analyst	GIS Specialist	Mileage	ODCs
Task		Total	\$333	\$318	\$199	\$159	\$119	\$156	\$0.680
A	Administration								
A.1	Quarterly City Staff Reporting	\$12,564		32	12				
A.2	Program Effectiveness Assessment	\$0							
A.3	Quarterly City Staff Meetings	\$3,816		12					
A.4	MS4 Permit Staff Training 3x/Annually	\$8,904		20	8		8		
A.5	Update City NPDES Program Folder	\$3,734			8		18		
A.6	Public Education and Outreach	\$4,132		2	8		16		
A.7	Develop & Update Legal Authorities	\$0							
A.8	Assess Enforcement Program	\$0							
A.9	Prepare December Annual Report	\$11,128		16	16		24		
A.10	Prepare SCWP MPTA Plan & Report	\$12,720		16	24		24		
A.11	Prepare Report of Waste Discharge	\$0							
A.12	Assess Trash Policy Compliance	\$3,476		2	8		8		
A.13	Develop TMDL Implementation Strategies	\$4,768		4	8		16		
A.14	Assess City Facility & Activities Compliance	\$4,214		2	8		16	120	
A.15	Identify Grant Opportunities & Assist One Application	\$17,120		16	24		40	16	
B	Industrial/Commercial (I/C) Facilities Program								
B.1	Perform I/C Facility Program Inspections	\$74,110		40	100	100	200	1750	\$600
B.2	Update I/C Facility Tracking Database	\$16,020		20	30		30		\$120
B.3	Suggest & Assess I/C BMP Implementation	\$5,852		4	20				\$600
B.4	Conduct I/C Follow Up Inspections	\$9,704		8	20	20			
C	Development Construction Program								
C.1	Provide City Staff Guidance	\$7,394		8	8	8	16	120	
C.2	Assist with City CIP NPDES Specifications	\$5,810		8	16			120	
D	Illicit Discharge Detection & Elimination								
D.1	Evaluate Existing Source Control Policies & Procedures	\$5,728		8	16				
D.2	Update Outfall Screening Program	\$796			4				
D.3	Verify IC/ID procedures are in MS4 Permit Compliance	\$796			4				
E	Integrated Monitoring Program								
E.1	Implement Baseline Monitoring	\$0							
E.2	Update Outfall Inventory	\$0							
E.3	Perform Outfall Monitoring and Laboratory Analysis	\$0							
E.4	Screen & Record Non-stormwater Outfall Discharges	\$0							
E.5	Investigate Significant Non-stormwater Flows	\$0							
F	Trash Policy Implementation								
F.1	Prepare 13383 Trash Jurisdictional Maps	\$4,268		4	4		8	8	
G	Adaptive Management Process								
G.1	Prepare Adaptive Management Process bi-annually	\$0							
H	Load Reduction Strategy								
H.1	Implement LAR Bacteria Load Reduction Strategy	\$0							
I	Reasonable Assurance Analysis Update								
I.1	Prepare Reasonable Assurance Analysis	\$0							
J	Report of Waste Discharges								
J.1	Prepare & Submit Report of Waste Discharge (ROWD)	\$0							
Total Fee and Hours		\$217,054	0	222	346	128	416	32	\$1,435
									\$1,320

All Direct Expense Costs are billed at Cost + 10%



City of Gardena NPDES Program Management Services

Professional Service Fee FY25-26

Prepared by CWE G2 on 2/14/2022

			Principal	Sr. Project Manager	Senior Env Sci	Env Scientist	Env Analyst	GIS Specialist	Mileage	ODCs
			\$350	\$334	\$219	\$167	\$125	\$164	\$0.720	
Task	Total									
A Administration										
A.1 Quarterly City Staff Reporting	\$13,316			32	12					
A.2 Program Effectiveness Assessment	\$0									
A.3 Quarterly City Staff Meetings	\$4,008			12						
A.4 MS4 Permit Staff Training 3x/Annually	\$9,432			20	8		8			
A.5 Update City NPDES Program Folder	\$4,002				8		18			
A.6 Public Education and Outreach	\$4,420			2	8		16			
A.7 Develop & Update Legal Authorities	\$0									
A.8 Assess Enforcement Program	\$0									
A.9 Prepare December Annual Report	\$11,848			16	16		24			
A.10 Prepare SCWP MPTA Plan & Report	\$13,600			16	24		24			
A.11 Prepare Report of Waste Discharge	\$20,896			24	24		40	16		
A.12 Assess Trash Policy Compliance	\$3,732			2	8			8		
A.13 Develop TMDL Implementation Strategies	\$5,088			4	8		16			
A.14 Assess City Facility & Activities Compliance	\$4,507			2	8		16		120	
A.15 Identify Grant Opportunities & Assist One Application	\$18,224			16	24		40	16		
B Industrial/Commercial (I/C) Facilities Program										
B.1 Perform I/C Facility Program Inspections	\$78,830			40	100	100	200		1750	\$610
B.2 Update I/C Facility Tracking Database	\$17,125			20	30		30			\$125
B.3 Suggest & Assess I/C BMP Implementation	\$6,326			4	20					\$610
B.4 Conduct I/C Follow Up Inspections	\$10,392			8	20	20				
C Development Construction Program										
C.1 Provide City Staff Guidance	\$7,847			8	8	8	16		120	
C.2 Assist with City CIP NPDES Specifications	\$6,263			8	16				120	
D Illicit Discharge Detection & Elimination										
D.1 Evaluate Existing Source Control Policies & Procedures	\$6,176			8	16					
D.2 Update Outfall Screening Program	\$876				4					
D.3 Verify IC/ID procedures are in MS4 Permit Compliance	\$876				4					
E Integrated Monitoring Program										
E.1 Implement Baseline Monitoring	\$0									
E.2 Update Outfall Inventory	\$0									
E.3 Perform Outfall Monitoring and Laboratory Analysis	\$0									
E.4 Screen & Record Non-stormwater Outfall Discharges	\$0									
E.5 Investigate Significant Non-stormwater Flows	\$0									
F Trash Policy Implementation										
F.1 Prepare 13383 Trash Jurisdictional Maps	\$4,524			4	4		8	8		
G Adaptive Management Process										
G.1 Prepare Adaptive Management Process bi-annually	\$0									
H Load Reduction Strategy										
H.1 Implement LAR Bacteria Load Reduction Strategy	\$0									
I Reasonable Assurance Analysis Update										
I.1 Prepare Reasonable Assurance Analysis	\$0									
J Report of Waste Discharges										
J.1 Prepare & Submit Report of Waste Discharge (ROWD)	\$0									
Total Fee and Hours	\$252,308	0	246	370	128	456	48	\$1,519	\$1,345	

All Direct Expense Costs are billed at Cost + 10%



City of Gardena NPDES Program Management Services

Professional Service Fee FY26-27

Prepared by CWE G2 on 2/14/2022

		Principal	Sr. Project Manager	Senior Env Sci	Env Scientist	Env Analyst	GIS Specialist	Mileage	ODCs
		\$364	\$347	\$228	\$174	\$130	\$170	\$0.730	
Task	Total								
A Administration									
A.1 Quarterly City Staff Reporting	\$13,840		32	12					
A.2 Program Effectiveness Assessment	\$0								
A.3 Quarterly City Staff Meetings	\$4,164		12						
A.4 MS4 Permit Staff Training 3x/Annually	\$9,804		20	8		8			
A.5 Update City NPDES Program Folder	\$4,164			8		18			
A.6 Public Education and Outreach	\$4,598		2	8		16			
A.7 Develop & Update Legal Authorities	\$0								
A.8 Assess Enforcement Program	\$0								
A.9 Prepare December Annual Report	\$12,320		16	16		24			
A.10 Prepare SCWP MPTA Plan & Report	\$14,144		16	24		24			
A.11 Prepare Report of Waste Discharge	\$0								
A.12 Assess Trash Policy Compliance	\$3,878		2	8			8		
A.13 Develop TMDL Implementation Strategies	\$5,292		4	8		16			
A.14 Assess City Facility & Activities Compliance	\$4,686		2	8		16		120	
A.15 Identify Grant Opportunities & Assist One Application	\$18,944		16	24		40	16		
B Industrial/Commercial (I/C) Facilities Program									
B.1 Preform I/C Facility Program Inspections	\$81,968		40	100	100	200		1750	\$610
B.2 Update I/C Facility Tracking Database	\$17,805		20	30		30			\$125
B.3 Suggest & Assess I/C BMP Implementation	\$6,558		4	20					\$610
B.4 Conduct I/C Follow Up Inspections	\$10,816		8	20	20				
C Development Construction Program									
C.1 Provide City Staff Guidance	\$8,160		8	8	8	16		120	
C.2 Assist with City CIP NPDES Specifications	\$6,512		8	16				120	
D Illicit Discharge Detection & Elimination									
D.1 Evaluate Existing Source Control Policies & Procedures	\$6,424		8	16					
D.2 Update Outfall Screening Program	\$912			4					
D.3 Verify IC/ID procedures are in MS4 Permit Compliance	\$912			4					
E Integrated Monitoring Program									
E.1 Implement Baseline Monitoring	\$0								
E.2 Update Outfall Inventory	\$0								
E.3 Perform Outfall Monitoring and Laboratory Analysis	\$0								
E.4 Screen & Record Non-stormwater Outfall Discharges	\$0								
E.5 Investigate Significant Non-stormwater Flows	\$0								
F Trash Policy Implementation									
F.1 Prepare 13383 Trash Jurisdictional Maps	\$4,700		4	4		8	8		
G Adaptive Management Process									
G.1 Prepare Adaptive Management Process bi-annually	\$0								
H Load Reduction Strategy									
H.1 Implement LAR Bacteria Load Reduction Strategy	\$0								
I Reasonable Assurance Analysis Update									
I.1 Prepare Reasonable Assurance Analysis	\$0								
J Report of Waste Discharges									
J.1 Prepare & Submit Report of Waste Discharge (ROWD)	\$0								
Total Fee and Hours	\$240,601	0	222	346	128	416	32	\$1,540	\$1,345

All Direct Expense Costs are billed at Cost + 10%



CWE Rates

<u>Engineer/Scientist</u>	<u>FY 2022/23</u> <u>Rate/Hour</u>	<u>FY 2023/24</u> <u>Rate/Hour</u>	<u>FY 2024/25</u> <u>Rate/Hour</u>	<u>FY 2025/26</u> <u>Rate/Hour</u>	<u>FY 2026/27</u> <u>Rate/Hour</u>
Principal	\$283	\$311	\$333	\$350	\$364
Senior Project Manager	\$270	\$297	\$318	\$334	\$347
Senior Environmental Scientist	\$169	\$186	\$199	\$219	\$228
Environmental Scientist	\$135	\$149	\$159	\$167	\$174
Environmental Analyst	\$101	\$111	\$119	\$125	\$130
GIS Specialist	\$132	\$145	\$156	\$164	\$170
<u>General</u>					
Direct Expenses	Cost + 10%	Cost + 10%	Cost + 10%	Cost + 10%	Cost + 10%
Subcontract Services	Cost + 10%	Cost + 10%	Cost + 10%	Cost + 10%	Cost + 10%
Mileage	Current IRS Rate	Current IRS Rate	Current IRS Rate	Current IRS Rate	Current IRS Rate
B&W Photocopies (per page)	\$0.10	\$0.10	\$0.10	\$0.10	\$0.10
Color Photocopies (per page)	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50
YSI PRO DSS	\$150/day	\$170/day	\$180/day	\$190/day	\$195/day

Rates will be adjusted annually based on the US Department of Labor, Bureau of Labor Statistics, Consumer Price Index for All Urban Consumers.

Rates for field equipment, health and safety equipment, and graphical supplies presented upon request.

Based on CWE maintaining General Liability Insurance for bodily injury and property damage with an aggregate limit of \$2,000,000 per occurrence. In the event the client desires additional coverage, CWE will, upon the client's written request, obtain additional insurance and adjust the above billing rates accordingly.



City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 15.B
Section: DEPARTMENTAL
ITEMS - PUBLIC WORKS
Meeting Date: May 24, 2022

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: PUBLIC HEARING: RESOLUTION NO. 6556, Confirming the Diagram and Assessment contained in the Engineer's Report dated April 26, 2022 for the Gardena Artesia Boulevard Landscape Assessment District and ordering the levy of assessments on the same for Fiscal Year 2022-2023.

COUNCIL ACTION REQUIRED:

Staff Recommendation: Conduct Public Hearing; allow each speaker three (3) minutes; and Adopt Resolution 6556

RECOMMENDATION AND STAFF SUMMARY:

Staff respectfully recommends that the City Council adopt Resolution No. 6556 subsequent to holding a hearing to consider any and all protests related to the levy of the proposed annual assessment under the Gardena Artesia Boulevard Assessment District for Fiscal Year 2022-2023.

On February 22, 2022, the City Council adopted Resolution 6552, directing the City Engineer to prepare and file a report according to the provisions of the "Landscape and Lighting Act of 1972" of the State of California Streets and Highways Code, Division 15, Part 2, for assessments to be levied upon and collected through the said assessment district.

On April 26, 2022, the City Council adopted Resolution No. 6554 approving the Engineer's Report, filed in the office of the City Clerk, and declaring it's intention to levy and collect assessments from the said assessment district for Fiscal Year 2022-2023.

The adoption of this resolution confirms the diagram and assessment contained in the Engineer's Report and constitutes the levy of the assessment that will pay for the service and maintenance costs of landscaping and appurtenant improvements within the median islands on Artesia Boulevard between Western Avenue and Normandie Avenue.

FINANCIAL IMPACT/COST:

Anticipated Revenue: \$21,662 (Assessment District Funds)

ATTACHMENTS:

[Artesia Landscaping Resolution 6556.pdf](#)

APPROVED:

A handwritten signature in blue ink, appearing to read "Clint Osorio", is centered within a light gray rectangular box.

Clint Osorio, City Manager

RESOLUTION NO. 6556

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, CONFIRMING THE DIAGRAM AND ASSESSMENT CONTAINED IN THE ENGINEER'S REPORT DATED APRIL 26, 2022, FOR THE GARDENA ARTESIA BOULEVARD LANDSCAPING ASSESSMENT DISTRICT AND ORDERING THE LEVY OF ASSESSMENTS ON THE SAME FOR FISCAL YEAR 2022-2023.

WHEREAS, on February 22, 2022 the City Council of the City of Gardena, California, adopted Resolution No. 6552, directing the City Engineer to prepare and file a report according to the provisions of the "Landscaping and Lighting Act of 1972" of the State of California Streets and Highways Code, Division 15, Part 2, for assessments to be levied upon and collected through the Gardena Artesia Boulevard Landscaping Assessment District for Fiscal Year 2022-2023, and;

WHEREAS, the Engineering Report was prepared and was filed in the office of the City Clerk, and;

WHEREAS, on April 26, 2022, the City Council adopted Resolution No. 6554 approving the Engineer's Report for the Gardena Artesia Boulevard Landscaping Assessment District for Fiscal Year 2022-2023, declaring its intention to levy upon and collect assessments for Fiscal Year 2022-2023, and;

WHEREAS, the City Council scheduled a hearing to consider any and all protests related to the levy of the proposed annual assessment for Tuesday, May 24, 2022, at 7:30 p.m. in the City of Gardena Council Chambers, 1700 West 162nd Street, City of Gardena, California, and;

WHEREAS, on May 24, 2022, the City Council held the duly noticed hearing and considered all protests and comments regarding the assessments

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, DOES HEREBY FIND, DETERMINE, AND RESOLVE, AS FOLLOWS:

SECTION 1. A written majority protest was not filed against the annual levy of the assessment of the Gardena Artesia Boulevard Landscaping Assessment District.

SECTION 2. The adoption of this Resolution confirms the diagram and the assessment contained in the Engineer's Report and constitutes the levy of the assessment on the Gardena Artesia Boulevard Landscaping Assessment District for Fiscal Year 2022-2023.

SECTION 3. The City Council orders and directs the City Treasurer to establish a special fund according to the State of California Streets and Highways Code, Division 15, Part 2, for Fiscal Year 2022-2023 entitled, "Gardena Artesia Boulevard Landscaping

Assessment District," and place into the fund all payments of assessments received from the County Tax Collector.

SECTION 5. That the City Clerk is ordered to transmit to the County Auditor of Los Angeles County, State of California, a certified copy of the diagram and assessment no later than the third Monday, August 15, 2022.

SECTION 6. That the City Manager, or his authorized agent, is designated as the person for the transmittal of the data processing for the Assessment Roll.

SECTION 7. That this Resolution shall be effective immediately.

BE IT FURTHER RESOLVED that the City Clerk shall certify to the passage and adoption of this Resolution; shall cause the same to be entered among the original Resolutions of said City; and shall make a minute of the passage and adoption thereof in the records of the proceedings of the City Council of said City in the minutes of the meeting at which the same is passed and adopted.

Passed, approved, and adopted this _____ day of _____, 2022.

TASHA CERDA, Mayor

ATTEST:

MINA SEMENZA, City Clerk

APPROVED AS TO FORM:



CARMEN VASQUEZ, City Attorney



City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 15.C
Section: DEPARTMENTAL
ITEMS - PUBLIC WORKS
Meeting Date: May 24, 2022

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: PUBLIC HEARING: RESOLUTION NO. 6557, Confirming the Diagram and Assessment contained in the Engineer's Report dated April 26, 2022, for the Gardena Consolidated Street Lighting Assessment District and ordering the levy of assessments on the same for Fiscal Year 2022-2023.

COUNCIL ACTION REQUIRED:

Staff Recommendation: Conduct Public Hearing; allow each speaker three (3) minutes; and Adopt Resolution No. 6557

RECOMMENDATION AND STAFF SUMMARY:

Staff recommends that the City Council adopt Resolution No. 6557 subsequent to holding a Public Hearing to consider any and all protests related to the levy of the proposed annual assessment under the Gardena Consolidated Street Lighting Assessment District for Fiscal Year 2022-2023.

On Feb. 22, 2022, the City Council adopted Resolution No. 6553 directing the City Engineer to prepare and file a report according to the provisions of the "Landscape and Lighting Act of 1972" of the State of California Streets and Highways Code, Division 15, Part 2 for assessments to be levied upon and collected through the said assessment district.

On April 26, 2022, the City Council adopted Resolution No. 6555 approving the Engineer's Report, filed in the office of the City Clerk, and declaring its intention to levy upon and collect assessments from the said assessment district for Fiscal Year 2022-2023.

The adoption of the resolution confirms the diagram and assessment contained in the Engineer's Report and constitutes the levy of the assessment that will pay for all energy, construction and maintenance costs of street lighting, including safety lights that are above traffic signals. These fees are assessed and collected through the Los Angeles County Office of the Assessor and the Los Angeles County Treasurer and Tax Collector and are remitted to the City on a biannual basis.

FINANCIAL IMPACT/COST:

Anticipated Revenue: \$836,545 (Lighting Assessment District Fund)

ATTACHMENTS:

[Consolidated Light Resolution 6557.pdf](#)

APPROVED:

A handwritten signature in blue ink, appearing to read "Clint Osorio", is centered on a light gray rectangular background.

Clint Osorio, City Manager

RESOLUTION NO. 6557

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, CONFIRMING THE DIAGRAM AND ASSESSMENT CONTAINED IN THE ENGINEER'S REPORT DATED APRIL 26, 2022, FOR THE GARDENA CONSOLIDATED STREET LIGHTING ASSESSMENT DISTRICT AND ORDERING THE LEVY OF ASSESSMENTS ON THE SAME FOR FISCAL YEAR 2022-2023.

WHEREAS, on February 22, 2022, the City Council of the City of Gardena, California, adopted Resolution No. 6553, directing the City Engineer to prepare and file a report according to the provisions of the "Landscaping and Lighting Act of 1972" of the State of California Streets and Highways Code, Division 15, Part 2, for assessments to be levied upon and collected through the Gardena Consolidated Street Lighting Assessment District for Fiscal Year 2022-2023, and;

WHEREAS, the Engineering Report was prepared and was filed in the office of the City Clerk, and;

WHEREAS, on April 26, 2022, the City Council adopted Resolution No. 6555 approving the Engineer's Report for the Gardena Consolidated Street Lighting Assessment District for Fiscal Year 2022-2023, declaring its intention to levy and collect assessments for Fiscal Year 2022-2023, and;

WHEREAS, the City Council scheduled a hearing to consider any and all protests related to the levy of the annual proposed assessment for Tuesday, May 24, 2022, at 7:30 p.m., in the City of Gardena Council Chambers, 1700 West 162nd Street, City of Gardena, California, and;

WHEREAS, on May 24, 2022, the City Council held the duly noticed hearing and considered all protests and comments regarding the assessments

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, DOES HEREBY FIND, DETERMINE, AND RESOLVE, AS FOLLOWS:

SECTION 1. A written majority protest was not filed against the annual levy of the assessment of the Gardena Consolidated Street Lighting Assessment District.

SECTION 2. The adoption of this Resolution confirms the diagram and the assessment contained in the Engineer's Report and constitutes the levy of the assessment on the Gardena Consolidated Street Lighting Assessment District for Fiscal Year 2022-2023.

SECTION 3. The City Council orders and directs the City Treasurer to establish a special fund according to the State of California Streets and Highways Code, Division 15, Part 2, for Fiscal Year 2022-2023 entitled, "Gardena Consolidated Street Lighting

Assessment District," and place into the fund all payments of assessments received from the County Tax Collector.

SECTION 4. The City Council orders all payments shall be made out of the special fund and only for the purposes provided for in the State of California Streets and Highways Code, Division 15, Part 2.

SECTION 5. The City Clerk is ordered to transmit to the County Auditor of Los Angeles County, State of California, a certified copy of the diagram and assessment no later than the third Monday, August 15, 2022.

SECTION 6. That the City Manager, or his authorized agent, is designated as the person for the transmittal of the data processing for the Assessment Roll.

SECTION 7. That this Resolution shall be effective immediately.

BE IT FURTHER RESOLVED that the City Clerk shall certify to the passage and adoption of this Resolution; shall cause the same to be entered among the original Resolutions of said City; and shall make a minute of the passage and adoption thereof in the records of the proceedings of the City Council of said City in the minutes of the meeting at which the same is passed and adopted.

Passed, approved, and adopted this _____ day of _____, 2022.

TASHA CERDA, Mayor

ATTEST:

MINA SEMENZA, City Clerk

APPROVED AS TO FORM:



CARMEN VASQUEZ, City Attorney



City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 15.D
Section: DEPARTMENTAL
ITEMS - PUBLIC WORKS
Meeting Date: May 24, 2022

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: RESOLUTION NO. 6577, Adopting a list of projects for Fiscal Year 2022-2023 funded by SB1: The Road Repair and Accountability Act of 2017.

COUNCIL ACTION REQUIRED:

Staff Recommendation: Adopt Resolution No. 6577

RECOMMENDATION AND STAFF SUMMARY:

Staff respectfully recommends that City Council approve and adopt Resolution No. 6577 which incorporates a list of projects proposed to be funded by the Road Maintenance and Rehabilitation Account (RMRA), also known as SB1, for the Fiscal Year 2022-2023.

Senate Bill 1 (SB1), the Road Repair and Accountability Act of 2017 (Chapter 5, Statutes of 2017) was passed by the Legislation and signed into law by the Governor in April 2017 to address the significant multi-modal transportation funding shortfalls statewide. SB1 increases fuel taxes and vehicle fees to raise revenue and provide for inflationary adjustments in future years.

The City of Gardena must submit an adopted resolution to the California Transportation Commission that identifies the project(s) be funded with FY 2022-2023 RMRA to maintain eligibility. SB1 prioritizes this funding towards street and roadway improvements.

SB1 includes accountability and transparency provisions that will ensure the residents of the City of Gardena are aware of the projects proposed for funding in the community and which projects have been completed each fiscal year. In addition, the City is required to maintain programed general fund expenditures for street, road and highway purposes. The minimal Maintenance of Effort (MOE) spending is required and based on the annual average of general fund expenditures during FY 2009-2010, 2010-2011, and 2011-2012.

The City will receive an estimated \$1,375,000 in RMRA finding in FY 2022-2023. Staff recommends a Pavement Rehabilitation Project for the Local Street Improvement FY 2022-2023, JN 514. The various streets shall be determined in reference to the City Pavement Management Program Report.

FINANCIAL IMPACT/COST:

Anticipated Revenue: \$1,375,000 SB1 (RMRA) Funds

ATTACHMENTS:

[Resolution 6577.pdf](#)

APPROVED:

A handwritten signature in blue ink, appearing to read "Clint Osorio", is written over a light gray rectangular background.

Clint Osorio, City Manager

RESOLUTION NO. 6577

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, ADOPTING A LIST OF PROJECTS FOR FISCAL YEAR 2022-2023 FUNDED BY SB 1: THE ROAD REPAIR AND ACCOUNTABILITY ACT of 2017

WHEREAS, Senate Bill 1 (SB 1), the Road Repair and Accountability Act of 2017 (Chapter 5, Statutes of 2017) was passed by the Legislature and Signed into law by the Governor in April 2017 in order to address the significant multi-modal transportation funding shortfalls statewide; and

WHEREAS, SB 1 includes accountability and transparency provisions that will ensure the residents of the City of Gardena are aware of the projects proposed for funding in our community and which projects have been completed each fiscal year; and

WHEREAS, the City of Gardena must adopt the project proposed to receive funding from the Road Maintenance and Rehabilitation Account (RMRA), created by SB 1 by resolution, which must include a description and the location of each proposed project, a proposed schedule for the project's completion, and the estimated useful life of the improvement; and

WHEREAS, the City of Gardena will receive an estimated \$1,375,000 in RMRA funding for fiscal year 2022-2023 from SB1; and

WHEREAS, the City of Gardena used a Pavement Management System to develop the SB 1 project list to ensure revenues are being used on the most high-priority and cost-effective projects that also meet the community's priorities for transportation investment; and

WHEREAS, the funding from SB 1 will help the City of Gardena maintain, repair and rehabilitate street / roadway throughout the City, and provide resources for similar projects into the future; and

WHEREAS, if the Legislature and Governor failed to act, city streets and county roads would have continued to deteriorate, having many and varied negative impacts on our community; and

WHEREAS, cities and counties own and operate more than 81 percent of streets and roads in California, and from the moment we open our front door to drive to work, bike to school, or walk to the bus station, people are dependent upon a safe, reliable local transportation network; and

WHEREAS, modernizing the local street and road system provides well-paying construction jobs and boosts local economies; and

WHEREAS, police, fire, and emergency medical services all need safe reliable roads to react quickly to emergency calls and a few minutes delay can be a matter of life and death; and

WHEREAS, maintaining and preserving the local street and road system in good condition will reduce drive times and traffic congestion, improve bicycle safety, and make the pedestrian experience safer and more appealing, which leads to reduce vehicle emissions helping the State achieve its air quality and greenhouse gas emissions reductions goal; and

WHEREAS, restoring roads before they fail also reduces construction time which results in less air pollution from heavy equipment and less water pollution from site runoff; and

WHEREAS, the SB 1 project list and overall investment in our local streets and roads infrastructure with focus on basic maintenance and safety will have significant positive co-benefits statewide.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, DOES HEREBY FIND, DETERMINE, AND RESOLVE, AS FOLLOWS:

SECTION 1. The foregoing recitals are true and correct.

SECTION 2. The City of Gardena is adopting the following project which is planned to be funded with Road Maintenance and Rehabilitation Account revenues:

Local Streets Improvement 2022-2023, JN 514

Description: Repair and Rehabilitation of Pavement

Location: Various Locations throughout the 6.2 Sq. miles of the city

Estimated Project Cost: \$1,375,000

Estimated Useful Life: 10 years

Anticipated Year of Construction: 2023

SECTION 3. That this Resolution shall be effective immediately.

BE IT FURTHER RESOLVED that the City Clerk shall certify to the passage and adoption of this Resolution; shall cause the same to be entered among the original Resolutions of said City; and shall make a minute of the passage and adoption thereof in the records of the proceedings of the City Council of said City in the minutes of the meeting at which the same is passed and adopted.

Passed, approved, and adopted this _____ day of _____, 2022.

TASHA CERDA, Mayor

ATTEST:

MINA SEMENZA, City Clerk

APPROVED AS TO FORM:



CARMEN VASQUEZ, City Attorney



City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 15.E
Section: DEPARTMENTAL
ITEMS - PUBLIC WORKS
Meeting Date: May 24, 2022

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: Award Construction Contract for the Gardena Community Aquatic and Senior Center Project - Demolition Phase, JN 978 to Interior Demolition, Inc. in the amount of \$160,930 and approve the Project Plans & Specifications.

COUNCIL ACTION REQUIRED:

Staff Recommendation:

- **Award Construction Contract**
- **Approve the Project Plans and Specifications**

RECOMMENDATION AND STAFF SUMMARY:

The demolition phase is the first construction phase of the Gardena Community Aquatic and Senior Center Project. This phase includes demolition, removal and disposal of two fourplex buildings with detached garages, existing aquatic pool, existing aquatic facilities and all other site hardscapes within the project limits. Demolition includes structural concrete, foundations, walls, doors, windows, structure steel, metals, roofs, masonry, attachments, appurtenances, piping, electrical and mechanical equipment, paving, curbs, walks, fencing, bush, rubbish, scrap, and all other items identified per plans and specifications. The scope also consists of removal of hazardous materials including asbestos and lead based paint and earthwork rough grading.

The following seven (7) bids were received on May 11, 2022:

1.	Interior Demolition, Inc., Montrose	\$160,930.00
2.	Garrison Demolition & Engineering, San Ramon	\$235,000.00
3.	Beck Co., Inc., Pomona	\$247,875.00
4.	Resource, Cerritos	\$289,000.00
5.	Doja, Inc., Ontario	\$325,000.00
6.	AMPCO Contracting, Inc., Irvine	\$349,254.82
7.	Pena Grading & Demo, Sun Valley	\$489,000.00

The lowest responsive bidder, Interior Demolition, Inc., is a state licensed contractor with reference verified successful construction experience in this field. They will be required to meet all bonding and financial standards. The tentative construction start date is July 2022 with an anticipated project completion in October 2022.

Staff respectfully recommends that the City Council award the construction contract for the Gardena Community Aquatic and Senior Center Project - Demolition Phase, JN 978, to Interior Demolition, Inc., in the amount of \$160,930.00 and approve the Project Plans & Specifications.

FINANCIAL IMPACT/COST:

Contract Amount: \$160,930

Funding Source: Prop 68 and General Funds

ATTACHMENTS:

[01_JN 978 Aquatic & Senior Center Demo Phase_Final Specs.pdf](#)

[02_JN 978 Aquatic & Senior Center Demo Phase_Final Plans.pdf](#)

[03_JN 978 Project Location Map.pdf](#)

APPROVED:

A handwritten signature in blue ink, appearing to read "Clint Osorio".

Clint Osorio, City Manager



CITY OF GARDENA

CONTRACT DOCUMENTS AND SPECIFICATIONS

FOR

**GARDENA COMMUNITY AQUATIC AND
SENIOR CENTER - DEMOLITION PHASE**

JN 978

APRIL 2022

CITY OF GARDENA

CONTRACT DOCUMENTS AND SPECIFICATIONS

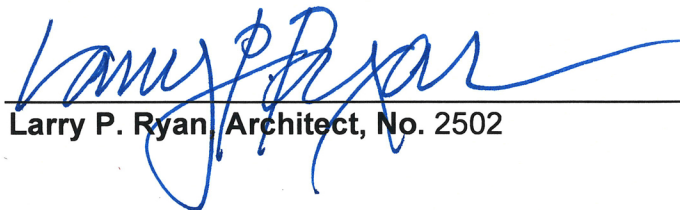
FOR

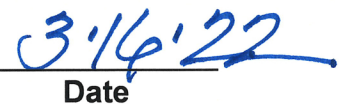
**GARDENA COMMUNITY AQUATIC AND
SENIOR CENTER - DEMOLITION PHASE**

JN 978

Plans & Specifications prepared by:




Larry P. Ryan, Architect, No. 2502


Date

Memoranda:

Plans and specifications are available at Planwell Administrator, 562.436.9761 or
www.crplanwell.com

Bid Results: <https://www.cityofgardena.org/public-contracts/>

City of Gardena Public Works Engineering Division: 310.217.9568

CITY OF GARDENA
NOTICE INVITING BIDS
for
**GARDENA COMMUNITY AQUATIC AND
SENIOR CENTER – DEMOLITION PHASE
PROJECT NO. 978**

Plans and Specifications are available through ARC Document Solutions. Please be advised that there is an additional charge for delivery. Upon payment of the purchase price, they become the property of the purchaser and may not be returned for refund.

You may access the plans through the following website under Public Planroom:

www.crplanwell.com

For help accessing and ordering, please contact a Planwell Administrator at 562.436.9761.

Notice is hereby given that the City of Gardena will receive sealed bids at the office of the City Clerk, City Hall, 1700 W. 162nd Street, Gardena, California, until **2:00 p.m. on Wednesday, May 11, 2022**, and shortly thereafter on this same day, they will be publicly opened and read at the City Clerk's office.

Due to COVID-19 directives, City Hall is closed to the public. As a result, the bid opening will be conducted in video conferencing using ZOOM.US. City Clerk staff members are working regular business hours and are available to accept sealed bid(s). It is highly recommended to mail or drop off bids within the sufficient time. For drop off bids, City Hall entrance has posted City Clerk's Office phone number (310) 217-9565, they will be available to come out and accept bids at your call.

The information to join the bid opening via ZOOM is the following:

Topic: Bid Opening
Time: 2:00 PM on Wednesday, May 11, 2022 (Shortly thereafter the deadline)
Join ZOOM Meeting

<https://us02web.zoom.us/j/88590177172>

Meeting ID: 885 9017 7172

Dial by phone: [+1 669 900 9128] US

Should you have any questions or concern in delivering a bid or joining the ZOOM Meeting, please contact City Clerk's office at (310) 217-9565 or via email at cityclerk@cityofgardena.org.

All bids must be in writing, must be sealed, and must be plainly marked on the outside: **"BID ON PROJECT NO. JN 978"**. Any bid received after the hour stated above for any reason whatsoever, will not be considered for any purpose but will be returned unopened to the bidder.

Bids are required for the entire work as described below:

Contractor shall provide all labor, materials, equipment and incidentals as specified and required for demolition, removal and disposal of; two fourplex buildings and detach garages; existing aquatic pool and its facilities; and all other site hardscapes within the project limits. Demolition includes structure concrete, foundations, walls, doors, windows, structural steel, metals, roofs, masonry, attachments, appurtenances, piping, electrical and mechanical

equipment, paving, curbs, walks, fencing, bush, rubbish, scrap, and all other items identified per plans and specs. The scope also consists of removal of hazardous materials including asbestos and lead based paint and earthwork rough grad as specified in these specifications and/or plans.

ENGINEER'S ESTIMATE: \$385,000

A non-mandatory pre-bid job walk is scheduled for Wednesday, April 27, 2022, at 10 a.m. The meeting location will be at Primm Memorial Pool, 1654 W. 160th Street, Gardena, CA 90247.

The deadline for Request of Information (RFI) is Monday, May 2, 2022, at 12 p.m.

The time of completion of contract shall be **60 working days** as defined in the latest Standard Specifications for Public Works ("Greenbook"). Liquidated Damages, as defined in Section 6-9, shall be **\$500 per each consecutive calendar day**.

Each bidder must submit a proposal to the City, c/o City Clerk in accordance with the Plans and Specifications. Said proposal is to be accompanied by a cash deposit, a certified or cashier's check, or a bidder's bond, made payable to the City of Gardena, in an amount not less than 10 percent of the total bid submitted.

The envelope enclosing the proposal shall be sealed and addressed to the City of Gardena c/o City Clerk, and delivered or mailed to the City at 1700 W. 162nd Street, Gardena, California 90247-3778. The envelope shall be plainly marked in the upper left-hand corner as follows:

ATTENTION: CITY, c/o CITY CLERK

(Bidder's Name and Address) _____

(Number and title of this project) _____

The successful bidder will be required to furnish a faithful performance bond in the amount of 100 percent of the contract price, and a payment bond in the amount of 100 percent of the contract price, both in a form satisfactory to the City Attorney.

The contractor shall have an active **Class C21 & C22** licenses from the Contractor's State License Board at the time of submitting bid. Lead and asbestos abatement work shall be done by a contractor having the appropriate legal license and certifications.

Pursuant to Public Contract Code Section 22300, the Contractor may, at Contractor's sole cost and expense, substitute securities equivalent to any monies withheld by the City to insured performance under the contract unless applicable federal regulations or policies do not allow such substitution. Such security shall be deposited with the City, or a state or federally chartered bank as escrow agent, who shall pay such monies to the Contractor upon satisfactory completion of the Contract. The Contractor shall be the beneficial owner of any security substituted for monies withheld and shall receive any accrued interest thereon. Securities eligible for investment shall include those listed in Government Code Section 16430 or bank or savings and loan certificates of deposit. No such substitution shall be accepted until the escrow agreement, letter of credit, form of security and any other document related to said substitution is reviewed and found acceptable by the City Attorney.

The City reserves the right to reject any or all bids and to waive any informality or irregularity in any bid received and to be the sole judge of the merits of the respective bids received. The award, if made, will be made to the lowest responsive responsible bidder.

Bidders are advised that this Project is a public work for purposes of the California Labor Code, which requires payment of prevailing wages. Accordingly, the bidder awarded the Contract and all subcontractors shall be required to pay not less than the prevailing rate of per diem wages, as determined by the Director of the California Department of Industrial Relations, and otherwise comply with the provisions of Section 1770 et seq. of the California Labor Code, California Code of Regulations, Title 8, Section 16000 et seq., and any other applicable laws, rules and regulations adopted with respect thereto ("California Prevailing Wage Laws"). Copies of such prevailing rates of per diem wages are on file at the Gardena City Clerk's office and the office of the City Engineer, and copies shall be made available to any interested party on request. The prevailing rates of per diem wages referred to herein are hereby made a part of this Notice by reference.

Attention is directed to the provisions of Sections 1777.5 and 1777.6 of the Labor Code concerning the employment of apprentices by Contractor or any Subcontractor under it. Contractor and any Subcontractor under it shall comply with the requirements of said sections in the employment of apprentices.

The Contractor is prohibited from performing work on this project with a subcontractor who is ineligible to perform work on the project pursuant to Section 1777.1 or 1777.7 of the Labor Code.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. All contractors and subcontractors must furnish electronic certified payroll records directly to the Labor Commissioner (aka Division of Labor Standards Enforcement) in a format prescribed by the Labor Commissioner no less than monthly.

As of **January 1, 2016**, the requirement to furnish electronic certified payroll records to the Labor Commissioner will apply to all public works projects, whether new or ongoing.

Exceptions: The Labor Commissioner may (but is not required to) excuse contractors and subcontractors from furnishing electronic certified payroll records to the Labor Commissioner on a project that is under the jurisdiction of one of the four legacy DIR-approved labor compliance programs (Caltrans, City of Los Angeles, Los Angeles Unified School District, and County of Sacramento) or that is covered by a qualifying project labor agreement.

These requirements will apply to all public works projects that are subject to the prevailing wage requirements of the Labor Code without regard to funding source.

The State General Prevailing Wage Determination is as established by the California Department of Industrial Relations (available at <http://www.dir.ca.gov/DLSR/PWD/index.htm>).

Skilled and Trained Workforce: This project is subject to Skilled and Trained Workforce Requirements per Sections 2600 through 2603 of the Public Contract Code.

Award of Contract: The following are conditions to the award of the contract:

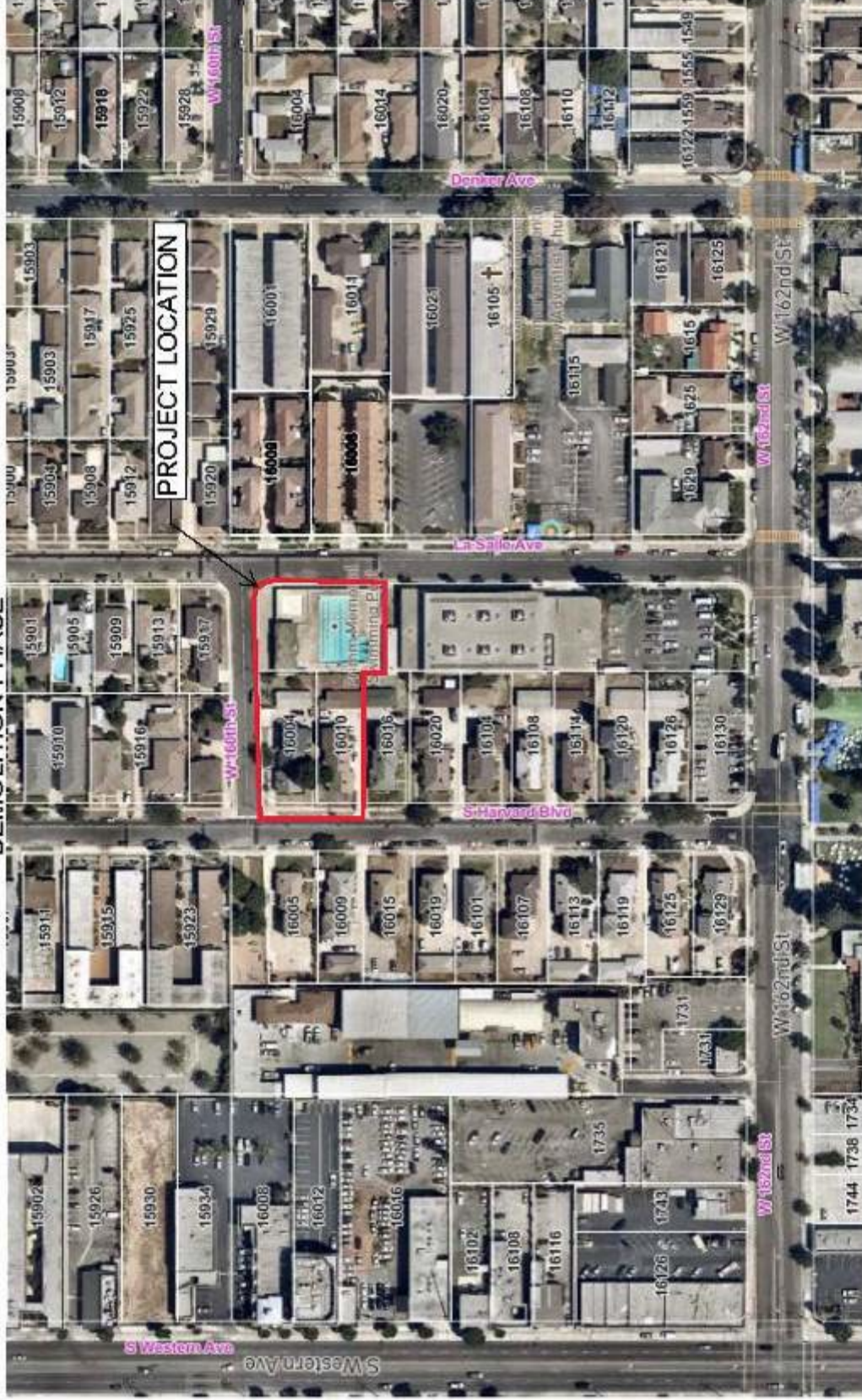
- I. Each contractor and subcontractor listed on the bid must be registered with the Department of Industrial Relations pursuant to Labor Code Section 1725.5. subject to the limited exceptions set forth in Labor Code Section 1771.1(a) (regarding the submission of a bid as authorized by Business & Professions Code Section 7029.1 or

Public Contract Code Section 10164 or 20103.5 provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract was awarded); and

- II. No contractor or subcontractor may be awarded this contract unless the contractor and each subcontractor listed on the bid is registered with the Department of Industrial Relations pursuant to Section 17265.5.

Any questions regarding this bid package may be referred to Kevin Kwak, Public Works Engineering Division at 310.217.9643.

Gardena Community Aquatic and Senior Center, JN 978 DEMOLITION PHASE



1" = 200 ft	Project Location Map	2/1/2022	
This map may represent a visual display of related geographic information. Data provided here on is not guarantee of actual field conditions. To be sure of complete accuracy, please contact the responsible staff for most up-to-date information.			

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INSTRUCTIONS TO BIDDERS

FORM OF PROPOSAL

The Proposal shall be fully executed and submitted on the forms in the project specifications and shall be enclosed in a sealed envelope marked and addressed as directed in the Notice Inviting Bids.

PRPOSAL / BID DOCUMENTS

All Proposals shall include the following executed documents to be submitted with each bid:

Bidding Schedule

Acknowledgement of Addenda Received

Bidder's Declaration

Non-Collusion Affidavit

Declaration of Eligibility of Contract

Bid Bond

Designation of Subcontractors

Construction Project Reference

Certificate of Non-Discrimination by Contractors

Certification of Regarding Debarment, Suspension, Ineligibility and
Voluntary Exclusion – Primary Covered Transitions

DELIVERY OF PROPOSAL

The Proposal shall be delivered by the time and to the place stipulated in the Notice Inviting Bids. It is the bidder's sole responsibility to see that its Proposal is received as stipulated. Any Proposal received after the scheduled closing time for receipt of proposals will be returned to the bidder unopened.

WITHDRAWAL OF PROPOSAL

The Proposal may be withdrawn by the bidder by means of a written request, signed by the bidder or its properly authorized representative. Such written request must be delivered to the place stipulated in the Notice Inviting Bids for receipt of proposals prior to the scheduled closing time for receipt of proposals. No Proposal may be withdrawn after the hour fixed for opening bids.

MODIFICATIONS AND ALTERNATIVE PROPOSALS

Unauthorized conditions, limitations, or provisions attached to the Proposal will render it informal and may be grounds for its rejection as non-responsive. The completed Proposal forms shall be without interlineations, alterations, or erasures. Alternative proposals will not be considered unless specifically requested. Oral, telegraphic, or telephonic proposals or modifications will not be considered.

DISCREPANCIES IN PROPOSALS

In the event there is more than one bid item in a Bidding Schedule, the bidder shall furnish a price for all bid items in the Schedule, and failure to do so will render the Proposal informal and may be grounds for its rejection as non-responsive. The bidder shall state in words and figures the unit prices or the specific sums as the case may be, for which it proposes to supply the labor, materials, supplies, or machinery, and completely perform the Contract. The total amount of each item bid and the total amount of the bid shall be stated in words and figures.

In case of any discrepancy between the words and the figures, the words shall prevail. If the unit price and the total amount named by a bidder for any items are not in agreement, the unit price alone will be considered as representing the bidder's intention and the total will be corrected to conform thereto.

PROPOSAL GUARANTEE – BIDDER'S SECURITY

Each bidder shall submit with his Proposal cash, an unconditional certified or cashier's check, or a bidder's bond, in the sum of the percentage of the bid stated in the Notice Inviting Bids, payable to the City as a guarantee that the bidder will, if its Proposal is accepted, execute the Contract and furnish a satisfactory Faithful Performance Bond, a satisfactory Payment Bond and insurance certificates as specified herein.

If a bidder to whom an award is made, fails or refuses to sign the Contract or furnish the required bonds and certificates, all within the time stated in Section 2-1.5 of the Special Provisions herein, the funds represented by said cash, check or bidder's bond shall be forfeited and become and remain the property of the City; the amount thereof being agreed to by the bidder and the surety as a bid bond forfeiture due the City because of the delay in the execution of the Contract and in the performance of work thereunder, resulting from such failure or refusal, except that if the City awards the contract to the next lowest responsive responsible bidder, only that portion of the bidder's security equal to the difference between the two bids will be forfeited.

A Bid Bond must be obtained from a corporate surety authorized to do business as such in the State of California as an "admitted surety insurer" and shall be on the form furnished by the City or one substantially in conformance with it. Certified or cashier's checks must be drawn on a solvent state or nationally chartered bank or branch thereof in the State of California. The liability of the City in connection with the checks shall be limited to the return of the checks (without interest) as provided in Section 2-1.6 of the Special Provisions bound herein.

DISQUALIFICATION OF BIDDERS

A person, firm, or corporation shall NOT be allowed to make or file, or to be interested in, more than one bid, except an alternative bid when specifically requested; provided, however, a person, firm, or corporation who has submitted a sub-proposal to a bidder submitting a

Proposal, or who has quoted prices on materials to such bidders, is not thereby disqualified from submitting a sub-proposal or from quoting prices to other bidders submitting proposals, or from submitting a Proposal as a prime contractor. Similarly, failure to comply with the registration requirements of Labor Code Section 1725.5, as further described in the Notice Inviting Bids, will disqualify a bidder.

ADDITIONAL REQUIREMENTS

The bidder's attention is directed to the Special Provisions and Technical Provisions bound herein for additional requirements of the Proposal and Contract Documents.

CONTRACT DOCUMENTS

Contract Documents are to be submitted within twenty-one (21) calendar days AFTER award of contract. Unless extended by agreement of the City, failure to timely submit executed Contract Documents may be grounds for rejecting the bid award and forfeiture of the bid security. See enclosed documents commencing on page CD-1.

BID PROPOSAL (BP)

**GARDENA COMMUNITY AQUATIC AND
SENIOR CENTER - DEMOLITION PHASE**

PROJECT NO. JN 978

Contractor: _____

Address: _____

Phone: _____

Fax: _____

License No.: _____

D.I.R. No. _____

Email: _____

To Be Submitted

WITH

Bid Package

BID PROPOSAL

PROJECT NO. JN 978

BID SCHEDULE

The undersigned, having examined the proposed Contract Documents titled:

GARDENA COMMUNITY AQUATIC AND SENIOR CENTER - DEMOLITION PHASE

and having visited the site and examined the conditions affecting the work, hereby proposes and agrees to furnish all labor, materials, equipment, and appliances, and to perform operations necessary to complete the work as required by said proposed Contract Documents and itemized bid schedule below. All work shall be completed within **sixty (60) Working Days** from the date the Notice of Proceed is issued by the Engineer.

Item No.	Item Description	Unit	Quantity	Unit Price	Item Total
1	Project Start Up (Mobilization, construction chainlink fence, and traffic control)	L.S.	1	\$	\$
2	Demolition of six (6) buildings (2 two-story apartments, 2 garages, 1 Primm Memorial Pool building, 1 pool equipment room)	L.S.	1	\$	\$
3	Demolition of pool (Pool shell, pool mechanical systems, pool deck paving, plumbing, diving board, and all complete)	L.S.	1	\$	\$
4	Site demolition (Concrete paving/pads, AC & AB pavement, concrete block wall, footing, fencing/gate, bleacher, turf, shrubs, trees, pedestrian lighting, misc. signs and all complete)	L.S.	1	\$	\$
5	Asbestos and Lead Abatement and Disposal	L.S.	1	\$	\$
6	NPDES SWPPP requirements	L.S.	1	\$	\$
7	Clearing & Grubbing and Erosion Control	L.S.	1	\$	\$
8	Earthwork / Grading / Drainage	L.S.	1	\$	\$
9	Utilities / Storm Drain / Water / Sewer	L.S.	1	\$	\$
GRAND TOTAL					\$

TO BE SUBMITTED WITH PROPOSAL

BID SCHEDULE (Continued)

TOTAL CONTRACT BID:

(Figures) \$ _____

(Words) _____

*** In case of error in extension of price into the total price column, the unit price will govern.**

All work required and shown on the construction plans and this specification for which no price or item is listed on this proposal, it shall be understood that such work, equipment, labor, tools and materials shall be provided without extra charge, allowance or direct payment of any kind. Payment for performing such work or furnishing such equipment, labor, tools and materials shall be included in the above lump sum or unit bid prices and no additional compensation will be paid therefor.

If the City determines that any of the unit bid prices are significantly unbalanced to the potential detriment of the City, the bid will be replaced as non-responsive.

In case of any discrepancy between the unit price and the total amount for any item are not in agreement, the unit price alone shall be considered to represent the bidder's intention and all totals will be corrected to conform thereto.

Attached hereto is cash, a certified check, a cashier's check, or a bidder's bond in the amount of _____ Dollar
s, said amount being not less than 10 percent of the amount bid. Pursuant to Public Contract Code Sections 20172 and 20174, it is agreed a portion equal to the difference between the low bid and second low bid shall be retained as a bid bond forfeiture by the City if the undersigned fails or refuses to execute the Contract and furnish the required bonds and certificates of insurance within the time provided.

Name of Bidder

Signature of Bidder

BID PROPSOAL

PROJECT NO. JN 978

ACKNOWLEDGEMENT OF ADDENDA RECEIVED

The Bidder shall acknowledge the receipt of addenda by number and date each addendum received.

Addendum No. ____ Date _____ Addendum No. ____ Date _____

Addendum No. ____ Date _____ Addendum No. ____ Date _____

Addendum No. ____ Date _____ Addendum No. ____ Date _____

Addenda will be issued only through the ARC Document Solutions and access under their Public Planroom (www.crplanwell.com). It is the Bidder's sole responsibility to visit the Planroom to obtain and administer any Addendum related to this bid. **An Addendum must be acknowledged above by a bidder in its submitted form of Proposal.**

If an addendum or addenda have been issued by the City and not noted above as being received by the Bidder, the Bid Proposal may be rejected.

Bidder's Signature

Date

BID PROPOSAL

PROJECT NO. JN 978

BIDDER'S DECLARATION

It is understood and agreed that:

1. The undersigned has carefully examined all documents which will form a part of the Contract; namely, the Notice Inviting Bids, the Instructions to Bidders, this Proposal, the Bid Bond, the Contract, the Faithful Performance Bond, the Payment Bond, the federal requirements, if any, the Plans and Specifications, the Special Provisions, and the Technical Provisions.
2. The undersigned has, by investigation at the site of the work and otherwise, satisfied himself as to the nature and location of the work and fully informed himself as to all conditions and matters, which can in any way affect the work or the cost thereof.
3. The undersigned fully understands the scope of work and has checked carefully all words and figures inserted in this Proposal and he further understands that the City will not be responsible for any errors or omissions in the preparation of the Proposal.
4. The undersigned agrees and acknowledges that he is aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and that the undersigned will comply with such provisions before commencing the performance of the Contract if it is awarded to the undersigned.

The undersigned will execute the Contract and furnish the required statutory bonds and certificates of insurance within the period of time specified in the Contract Documents.

The undersigned will begin work after award of Contract and a Notice to Proceed has been given as herein specified and will complete said work within the time specified in the Bidding Schedule.

5. The undersigned certifies that this Proposal is genuine and not sham or collusive, or made in the interest or on behalf of a person not herein named, and the undersigned has not directly or indirectly induced or solicited any other bidder to put in a sham bid nor induced any other person, firm, or corporation to refrain from bidding. The undersigned has not in any manner sought by collusion to secure for himself any advantage over any other bidder.
6. The undersigned will accept an award and enter into a Contract for all work scheduled herein on which he puts in a bid. The awards for such work are to be entirely at the discretion of the City after evaluation of the bids as submitted. The undersigned agrees that the City shall recover or retain as a bid bond forfeiture an amount equal to the difference between the low bid and amount of the bid of the bidder with whom the City enters into a Contract, and the surplus, if any, shall be returned to the lowest bidder in accordance with the provisions of the Public Contract Code Sections 20172 and 20174 in the event of his failure to execute a Contract and furnish required bonds and insurance therefor within the time provided.

BIDDER'S DECLARATION (Continued)

7. The undersigned bidder stated under penalty of perjury that the representations made in submitting this bid are, to the best of his/her knowledge, true, accurate, and complete.

Respectfully submitted,

Contractor's Business Name

Contractor (Print) Title

Business Address: Street

Signature

Title

City State Zip

Contractor's License No. and Classification

Business Phone Number

Business Fax Number

Date

Name Title

Residence: Street

City State Zip

Residence Phone Number

Note: If the bid is made by an individual, it must be signed with the full name of the bidder, whose address must be given: if it is made by a firm, it must be signed in the co-partnership's name by a general partner thereof, who shall also sign his or her own name, and the name and full address of each partner (general and/or limited) must be given; and if it is made by a corporation, it must be signed by a properly authorized officer, the corporate name shall be set forth, and the corporate seal shall be affixed.

BID PROPOSAL

PROJECT NO. JN 978

NON-COLLUSION AFFIDAVIT

(To be executed by Bidder and submitted with Bid)

State of California

County of Los Angeles

_____ being first duly sworn, deposes and says that he or she is _____ of _____ the party making the foregoing bid, that the bid is not made in the interest of, or on the behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay fee to any corporation, or agent thereof to effectuate a collusive or sham bid.

NAME OF BIDDER

SIGNATURE OF BIDDER

ADDRESS OF BIDDER

CITY

STATE

ZIP

ALL SIGNATURES MUST BE WITNESSED BY NOTARY
(attach appropriate jurats)

TO BE SUBMITTED WITH PROPOSAL

BID PROPOSAL

PROJECT NO. JN 978

DECLARATION OF ELIGIBILITY TO CONTRACT

[Labor Code Section 1777.1; Public Contract Code Section 6109]

The undersigned, a duly authorized representative of the contractor, certifies and declares that:

1. The undersigned contractor is aware of Sections 1777.1 and 1777.7 of the California Labor Code, which prohibit a contractor or subcontractor who has been found by the Labor Commissioner or the Director of Industrial Relations to be in violation of certain provisions of the Labor Code, from bidding on, being awarded, or performing work as a subcontractor on a public works project for specified periods of time.

2. The undersigned contractor is not ineligible to bid on, be awarded or perform work as a subcontractor on a public works project by virtue of Sections 1771.1 or 1777.7 of the California Labor Code or any other provision of law.

3. The undersigned contractor is aware of California Public Contract Code Section 6109, which states:

“(a) A public entity, as defined in Section 1100 [of the Public Contract Code], may not permit a contractor or subcontractor who is ineligible to bid or work on, or be awarded, a public works project pursuant to Section 1777.1 or 1777.7 of the Labor Code to bid on, be awarded, or perform work as a subcontractor on, a public works project. Every public works project shall contain a provision prohibiting a contractor from performing work on a public works project with a subcontractor who is ineligible to perform work on the public works project pursuant to Section 1771.1 or 1777.7 of the Labor Code.”

“(b) Any contract on a public works project entered into between a contractor and a debarred subcontractor is void as a matter of law. A debarred subcontractor may not receive any public money for performing work as a subcontractor on a public works contract, and any public money that may have been paid to a debarred subcontractor by a contractor on the project shall be returned to the awarding body. The contractor shall be responsible for the payment of wages to workers of a debarred subcontractor who has been allowed to work on the project.”

4. The undersigned contractor has investigated the eligibility of each and every subcontractor the undersigned contractor intends to use on this public works project, and has determined that none of them is ineligible to perform work as a subcontractor on a public works project by virtue of the foregoing provisions of the Public Contract Code, Sections 1771.1 or 1777.7 of the Labor Code, or any other provision of law.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct. Executed this _____ day of _____, 20____, at _____

California_____ (place of execution),

Signature: _____ Name: _____

Title: _____ Company: _____

BID PROPOSAL

PROJECT NO. JN 978

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

THAT _____, as Principal,
and _____, as Surety,
are held firmly bound unto the City of Gardena in the sum of \$ _____;
_____ DOLLARS,

(not less than ten percent of total amount of bid)

for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a bid to the City to perform all work required under the following:

PROJECT: GARDENA COMMUNITY AQUATIC AND SENIOR CENTER PROJECT - DEMOLITION PHASE

NOW, THEREFORE, if said Principal is awarded a Contract by the City and, within the time and in the manner required in the Specifications for said project, enters into the written form of Contract bound with said Specifications and furnishes the required bonds, one to guarantee faithful performance and the other to guarantee payment for labor and materials, then this obligation shall be null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by the City and judgment is recovered, said Surety shall pay all costs incurred by the City in such suit, including a reasonable attorneys' fee to be fixed by the court. Surety hereby waives the provisions of California Civil Code §2845.

SIGNED AND SEALED, this _ day of _____, 20_____.

_____(SEAL)
Principal

_____(SEAL)
Surety

BY: _____
Signature

BY: _____
Signature

Note: This bond must be dated, all signatures must be notarized, and evidence of the authority of any person signing as attorney-in-fact must be attached.

TO BE SUBMITTED WITH PROPOSAL

BID PROPOSAL

PROJECT NO. JN 978

DESIGNATION OF SUBCONTRACTORS

In compliance with the "Subletting and Subcontracting Fair Practices Act" being Sections 4100-4113 of the Public Contract Code of the State of California, and any amendments thereto, each bidder shall set forth below the name and location of the place of business of each subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work or improvement in an amount in excess of one-half (1/2) of one percent (1%) of the prime contractor's total bid, and shall further set forth the portion of the work which will be done by each subcontractor. Only one subcontractor for each such portion shall be listed.

If the contractor fails to specify a subcontractor for any portion of the work to be performed under the contract, he shall be deemed to have agreed to perform such portion himself, and he shall not be permitted to subcontract that portion of the work except under the conditions hereinafter set forth.

Subletting or subcontracting of any portion of the work to which subcontractor was designated in the original bid shall only be permitted in cases of public emergency or necessity, and then only after a finding reduced to writing as a public record of the legislative body of the City.

Portion of Work %	Subcontractor's Name & Address	Type of Work	State License Number	Class	D.I.R. Number

Not more than ____%.

TO BE SUBMITTED WITH PROPOSAL

BID PROPOSAL

PROJECT NO. JN 978

CONSTRUCTION PROJECT REFERENCE

In order to more fully evaluate your background and experience for the project herein proposed, please submit a list of Public Works and/or similar construction projects completed or in progress within the last three (3) years. Failure to provide this information may constitute grounds for rejection of your bid as non-responsive.

Number of years as a contractor in construction work of this type: _____

Three projects of this type recently completed:

1. Name (Firm/Agency): _____
Address: _____
Contact Person: _____ Telephone No.: _____
Title of Project: _____
Project Location: _____
Date of Completion: _____ Contract Amount: \$ _____
2. Name (Firm/Agency): _____
Address: _____
Contact Person: _____ Telephone No.: _____
Title of Project: _____
Project Location: _____
Date of Completion: _____ Contract Amount: \$ _____
3. Name (Firm/Agency): _____
Address: _____
Contact Person: _____ Telephone No.: _____
Title of Project: _____
Project Location: _____
Date of Completion: _____ Contract Amount: \$ _____

NOTE: If requested by the City, the bidder shall furnish a certified financial statement, references, and other information sufficiently comprehensive to permit an appraisal of his current financial condition.

Bidder's Signature _____

BID PROPOSAL

PROJECT NO. JN 978

CERTIFICATE OF NON-DISCRIMINATION BY CONTRACTORS

As suppliers of goods or services to the City, the firm listed below certifies that it does not discriminate in its employment with regard to race, color, religion, sex, or national origin; that it is in compliance with all applicable federal, state, and local directives, and executive orders regarding non-discrimination in employment; and that it agrees to pursue positively and aggressively the principle of equal opportunity in employment.

We agree specifically:

1. To establish or observe employment policies which affirmatively promote opportunities for minority persons at all job levels.
2. To communicate this policy to all persons concerned, including all company employees, outside recruiting services, especially those serving minority communities, and to the minority communities at large.
3. To take affirmative steps to hire minority employees within the company.

FIRM _____

TITLE OF PERSON SIGNING _____

SIGNATURE _____

DATE _____

Please include any additional information available regarding equal opportunity employment programs now in effect within your company:

BID PROPOSAL

PROJECT NO. JN 978

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION – PRIMARY COVERED TRANSACTIONS

(BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS ON NEXT PAGE)

The Contractor shall not perform Work with any Subcontractor that has been debarred or suspended pursuant to California Labor Code Section 1777.1 or any other federal or State law providing for the debarment of contractors from public works. The Contractor and Subcontractors shall not be debarred or suspended throughout the duration of the Contract pursuant to Labor Code Section 1777.1 or any other federal or State law providing for the debarment of contractors from public works. If the Contractor or any Subcontractor becomes debarred or suspended during the duration of the Project, the Contractor shall immediately notify the City.

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
 - a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - b. Have not within a 5-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statement, or receiving stolen property;
 - c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and
 - d. Have not within a 5-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Signature: _____ Name: _____

Title: _____ Company: _____

TO BE SUBMITTED WITH PROPOSAL

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY
AND VOLUNTARY EXCLUSION – PRIMARY COVERED TRANSACTIONS**
(Continued)

INSTRUCTIONS FOR CERTIFICATION

1. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.
4. The prospective primary participant shall provide immediate written notice to the department or agency to which this proposal is submitted if at any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations (13 CFR Part 145).
6. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.
7. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-- Lower Tier Covered Transactions," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
8. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the ineligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 6 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

TO BE SUBMITTED WITH PROPOSAL

CONTRACT DOCUMENTS (CD)

**GARDENA COMMUNITY AQUATIC AND
SENIOR CENTER - DEMOLITION PHASE**

PROJECT NO. JN 978

**To be Submitted
within twenty-one (21) calendar days**

**AFTER
Award of Contract**

CONTRACT DOCUMENT

PROJECT NO. JN 978

AGREEMENT

THIS AGREEMENT, made and entered into this _____ day of _____, 20_____, by and between CITY OF GARDENA in the State of California, hereinafter referred to as "CITY" and _____, hereinafter referred to as "CONTRACTOR."

The City and the Contractor mutually agree as follows:

ARTICLE I.

THE PROJECT

For and in consideration of the mutual promises set forth herein, Contractor agrees to perform and complete in a good and workmanlike manner all work required by the Contract Documents for City Project No. JN, which is described as follows:

Title: **GARDENA COMMUNITY AQUATIC AND SENIOR CENTER PROJECT –
DEMOLITION PHASE**

Said work shall be performed in accordance with the Plans, Specifications and other Contract Documents, all of which are referenced in Article III hereof and incorporated herein as though fully set forth. Contractor shall furnish at its own expense all labor, materials, equipment and services necessary therefor, except such labor, materials, equipment and services as are provided in the Contract Documents to be furnished by City.

This project is subject to Skilled and Trained Workforce Requirements per Sections 2600 through 2603 of the Public Contract Code.

ARTICLE II.

CONTRACT SUM AND PAYMENT

For performing and completing the work in accordance with the Contract Documents, City shall pay Contractor, in full compensation therefor, the contract sum set forth in the Bidding Schedule. Said sum shall constitute payment in full for all work performed hereunder, including, without limitation, all labor, materials, equipment, tools and services used or incorporated in the work, supervision, administration, overhead, expenses and any and all other things required, furnished or incurred for completion of the work as specified in the Contract Documents. City shall make payments to Contractor on account of the contract sum at the time, in the manner, and upon the conditions specified in the Contract Documents.

ARTICLE III.

CONTRACT DOCUMENTS

The Contract Documents, which constitute the entire agreement between the City and the Contractor, are enumerated as follows: Proposal Documents, including the Notice Inviting Bids, Instructions to Bidders, Bidding Schedule, Bidder's Declaration, Designation of Subcontractors, Bidder's Assurance, and Fair Employment Practices documents; this Agreement; Standard Specifications; Special Provisions; Technical Provisions; Drawings; Plans; and all addenda issued prior to and all modifications issued after the execution of this Agreement. These form

the Contract, and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

ARTICLE IV.

EFFECTIVE DATE

This Agreement shall become effective and commence as of the date set forth below on which the last of the parties, whether City or Contractor, executes said Agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed and attested by their proper officers thereunto duly authorized.

CITY

CONTRACTOR

By: _____
MAYOR (Sign)

By: _____
Sign / Title

Date: _____
SEAL

Date: _____

Attest:
By: _____
CITY CLERK (Sign)

Attest: (Contractor)

By: _____
Sign / Title

Date: _____

Date: _____

APPROVED AS TO FORM:

By: _____
CITY ATTORNEY (Sign)

Date: _____

CONTRACT DOCUMENT

PROJECT NO. JN 978

FAITHFUL PERFORMANCE BOND

WHEREAS, the City of Gardena has awarded to _____, hereinafter designated as the "Principal", a Contract for:

**PROJECT: GARDENA COMMUNITY AQUATIC AND SENIOR CENTER PROJECT -
DEMOLITION PHASE**

WHEREAS, said Principal is required under the terms of said Contract to furnish a bond for the faithful performance of said Contract;

NOW, THEREFORE, we, _____
as Principal, and _____
as Surety, are held and firmly bound unto the City in the sum of _____

Dollars (\$ _____), this amount being not less than one hundred percent (100%) of the total Contract price, lawful money of the United States of America, for payment of which sum well and truly to be made we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents. In case suit is brought upon this bond, the Surety will pay all court costs and reasonable attorneys' fees to the City of Gardena in an amount to be fixed by the court.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, if the hereby bounded Principal, his or its heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, well and truly keep and perform all the undertakings, terms, covenants, conditions and agreements in the said Contract and any alteration thereof, made as therein provided, all within the time and in the manner therein designated and in all respects according to their true intent and meaning, then this obligation shall become null and void; otherwise, it shall be and remain in full force and effect.

FURTHER, the Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, addition, or modification to the terms of the Contract, or of the work to be performed thereunder, or the specifications for the same, shall in any way affect its obligations under this bond, and it does hereby waive notice of any such change, extension of time, alteration, addition, or modification to the terms of the Contract or to the work or to the specifications thereunder. Surety hereby waives the provisions of California Civil Code §§ 2845 and 2849. The City is the principal beneficiary of this bond and has all rights of a party hereto.

This bond shall remain in full force and effect for a warranty period of one full year after acceptance of the job by the City.

IN WITNESS WHEREOF, three (3) identical counterparts of this instrument, each of which shall for all purposes be deemed an original thereof, have been duly executed by the Principal and

Surety named herein, on the _____ day of _____, 20____, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

[PRINCIPAL]

By _____

Title _____

Signature

[SURETY]

By _____

Title _____

Address _____

Phone No. _____

Signature

All signatures must be notarized.

Appropriate modifications shall be made to this form if the bond is being furnished for the performance of an act not provided for by agreement.

Corporations must affix corporate seal.

CONTRACT DOCUMENT

PROJECT NO. JN 978

PAYMENT BOND

WHEREAS, the City of Gardena has awarded to _____, as Contractor, a contract for the work described as follows:

PROJECT: **GARDENA COMMUNITY AQUATIC AND SENIOR CENTER –
DEMOLITION PHASE**

AND WHEREAS, said Contractor is required to furnish a bond in connection with said contract, to secure the payment of claims of laborers, mechanics, materialmen and other persons, as provided by law;

NOW, THEREFORE, we, the undersigned Contractor and Surety, are held firmly bound unto the City in the sum of _____ Dollars (\$_____) this amount being not less than one hundred percent (100%) of the total Contract price, for which payment well and truly to be made we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, if said Contractor, its heirs, executors, administrators, successors, assigns, or subcontractors shall fail to pay any of the persons named in Civil Code Section 3181, or amounts due under the Unemployment Insurance Code with respect to work or labor performed under the contract, or any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of the Contractor and its subcontractors pursuant to Section 13020 of the Unemployment Insurance Code, or any other amounts due to persons under any applicable project contract or law, with respect to such work and labor, then the Surety or Sureties herein will pay for the same in an amount not exceeding the sum specified in this bond, otherwise the above obligation shall be void. In case suit is brought upon this bond, the said Surety will pay all court costs and reasonable attorneys' fees to the plaintiff(s) and City in an amount to be fixed by the court.

This bond shall inure to the benefit of any of the persons named in Civil Code Section 3181 as to give a right of action to such persons or their assigns in any suit brought upon this bond.

Further, the Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, addition, or modification to the terms of the Contract, or of the work to be performed thereunder, or the specifications for the same, shall in any way affect its obligations under this bond, and it does hereby waive notice of such change, extension of time, alteration, addition, or modification to the terms of the Contract or to the work or to the specifications thereunder. Surety hereby waives the provisions of California Civil Code §§ 2845 and 2849.

This bond shall remain in full force and effect for six full months after the period in which verified claims may be filed as provided for in Section 3184 of the California Civil Code.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this _____ day of _____ 20____.

[PRINCIPAL]

By _____

Title _____

Signature

[SURETY]

By _____

Title _____

Address _____

Phone No. _____

Signature

All signatures must be notarized.

Appropriate modifications shall be made to this form if the bond is being furnished for the performance of an act not provided for by agreement.

Corporations must affix corporate seal.

CONTRACT DOCUMENT

PROJECT NO. JN 978

WORKER'S COMPENSATION INSURANCE CERTIFICATE

The Contractor shall execute the following form as required by the California Labor Code, Sections 1860 and 1861:

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of the work of the Contract.

DATED: _____

CONTRACTOR

By _____
Signature

Title

ATTEST:

By _____
Signature

CONTRACT DOCUMENT

PROJECT NO. JN 978

INDEMNIFICATION AND HOLD HARMLESS AGREEMENT AND WAIVER OF SUBROGATION AND CONTRIBUTION

GARDENA COMMUNITY AQUATIC AND SENIOR CENTER – DEMOLITION PHASE

To the fullest extent permitted by law, Indemnitor hereby agrees, at its sole cost and expense, to defend, protect, indemnify, and hold harmless the City of Gardena and its respective elected officials, officers, attorneys, agents, employees, volunteers, successors, and assigns (collectively "Indemnitees") from and against any and all damages, costs, expenses, liabilities, claims, demands, causes of action, proceedings, expenses, judgments, penalties, liens, and losses of any nature whatsoever, including fees of accountants, attorneys, or other professionals and all costs associated therewith (collectively "Liabilities"), arising or claimed to arise, directly or indirectly, out of, in connection with, resulting from, or related to any act, failure to act, error, or omission of Indemnitor or any of its officers, agents, servants, employees, subcontractors, materialmen, suppliers or their officers, agents, servants or employees, arising or claimed to arise, directly or indirectly, out of, in connection with, resulting from, or related to the above-referenced contract, agreement, license, or permit (the "Agreement") or the performance or failure to perform any term, provision, covenant, or condition of the Agreement, including this indemnity provision. This indemnity provision is effective regardless of any prior, concurrent, or subsequent active or passive negligence by Indemnitees and shall operate to fully indemnify Indemnitees against any such negligence. This indemnity provision shall survive the termination of the Agreement and is in addition to any other rights or remedies which Indemnitees may have under the law. Payment is not required as a condition precedent to an Indemnitee's right to recover under this indemnity provision, and an entry of judgment against an Indemnitee shall be conclusive in favor of the Indemnitee's right to recover under this indemnity provision. Indemnitor shall pay Indemnitees for any attorney fees and costs incurred in enforcing this indemnification provision. Notwithstanding the foregoing, nothing in this instrument shall be construed to encompass (a) Indemnitees' sole negligence or willful misconduct to the limited extent that the underlying Agreement is subject to Civil Code 2782(a), or (b) the contracting public agency's active negligence to the limited extent that the underlying Agreement is subject to Civil Code 2782(b). This indemnity is effective without reference to the existence or applicability of any insurance coverages which may have been required under the Agreement or any additional insured endorsements which may extend to Indemnitees.

Indemnitor, on behalf of itself and all parties claiming under or through it, hereby waives all rights of subrogation and contribution against the Indemnitees, while acting within the scope of their duties, from all claims, losses and liabilities arising out of or incident to activities or operations performed by or on behalf of the Indemnitor regardless of any prior, concurrent, or subsequent active or passive negligence by the Indemnitees. Accountants, attorneys, or other professionals employed by Indemnitor to defend Indemnitees shall be selected by Indemnitees.

In the event there is more than one person or entity named in the Agreement as an Indemnitor, then all obligations, liabilities, covenants and conditions under this instrument shall be joint and several.

"Indemnitor"

Company/Contractor _____

Name & Title _____

Signature & Date _____

CONTRACT DOCUMENT

PROJECT NO. JN 978

INSURANCE

CERTIFICATION OF INSURANCE (COI) SHALL BE SUBMITTED BY THE CONTRACTOR

- 1. COMMENCEMENT OF WORK.** Contractor shall not be authorized to commence Work under this Contract until it has obtained approved insurance. Before beginning Work hereunder, during the entire period of this Contract, for any extensions hereto, and for periods after the end of this Contract as may be indicated below, Contractor must have and maintain in place not less than the insurance coverages required in this Section at his sole cost and expense. Contractor's insurance shall comply with all items specified by this Contract. Any subcontractors shall be subject to all of the requirements of this Section and Contractor shall be responsible to obtain evidence of insurance from each subcontractor and provide it to City before the subcontractor commences work. Alternatively, Contractor's insurance may cover all subcontractors. The insurance requirements are not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by Contractor under this Contract.
- 2. INSURANCE COMPANY REQUIREMENTS.** All insurance policies used to satisfy the requirements imposed hereunder shall be issued by insurers admitted to do business in the State of California. Insurers shall have a current Best's rating of not less than A-:VII, unless otherwise approved by City.
- 3. COVERAGES, LIMITS AND POLICY REQUIREMENTS.** Contractor shall maintain the types of coverages indicated below:
- 4. COMPREHENSIVE GENERAL LIABILITY INSURANCE.** A policy of comprehensive general liability insurance written on a per occurrence basis in an amount not less than either one million dollars (\$1,000,000) per occurrence or two million dollars (\$2,000,000) aggregate.
- 5. COMMERCIAL AUTO LIABILITY INSURANCE.** A policy including all coverages provided by and to the extent afforded by Insurance Services Office form CA 0001, ed. 12/93, including Symbol 1 (any auto) with no special limitations affecting City. The minimum auto insurance coverage shall be one million dollars (\$1,000,000) combined single limit per accident.
- 6. WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE.** A policy which meets all statutory benefit requirements of the Labor Code, or other applicable law, of the State of California. The minimum coverage limits for said insurance shall be no less than one million dollars (\$1,000,000) per claim. The policy shall be issued by an insurance company which is admitted to do business in the State of California and shall contain a clause that the policy may not be canceled without thirty (30) days prior written notice, return receipt requested, is mailed to City.

In accordance with the provisions of section 1860 of the California Labor Code, Contractor's attention is directed to the requirement that in accordance with the provisions of section 3700 of the California Labor Code, Contractor and every subcontractor will be required to secure the payment of compensation of his or her employees, or obtain a certificate of

consent to self-insurance by the Director of Industrial Relations in accordance with the requirements of Section 3700 of the California Labor Code.

In accordance with the provisions of section 1861 of the California Labor Code, Contractor shall sign and file with the awarding body the following certification prior to performing any work on the Project:

"I am aware of the provisions of section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract."

7. POLICY REQUIREMENTS. The policies set forth above shall comply with the following, as evidenced by the policies or endorsements to the policies:

- (i) City and its appointed and elected officers, employees, agents and volunteers shall be added as additional insured to the policy as respects liabilities arising out of the performance of any work done under the Contract.
- (ii) The insurer shall agree to provide City with thirty (30) days prior written notice, return receipt requested, of any cancellation, non-renewal or material change in coverage.
- (iii) For any claims with respect to the Project covered by this Contract, Contractor's insurance coverage shall be primary insurance as respects City and its elected and appointed officers, employees, agents and volunteers. Any insurance or self-insurance maintained by City and its elected and appointed officers, employees, agents and volunteers shall be excess of Contractor's insurance and shall not contribute with it.
- (iv) The policy shall apply separately to each insured against whom claim is made or suit is brought except with respect to the limits of the company's liability.

8. COURSE OF CONSTRUCTION INSURANCE. Contractor shall provide course of construction insurance covering for "all risks" of loss in the amount of the completed value of the Work. The City shall be named as a loss payee and the insurer shall waive all rights of subrogation against the City. This policy shall be issued by an insurance company which is admitted to do business in the State of California and shall contain a clause that the policy may not be canceled until thirty (30) days written notice, return receipt requested, is mailed to the City. Course of Construction Insurance may be provided for each separate Phase.

9. ADDITIONAL REQUIREMENTS. The procuring of required insurance shall not be construed to limit Contractor's liability hereunder nor to fulfill the indemnification provisions and requirements of this Contract. City shall notify Contractor in writing of changes in the insurance requirements. If Contractor does not deposit copies of acceptable insurance policies or endorsements with City incorporating such changes within sixty (60) days of receipt of such notice, Contractor shall be deemed in default hereunder.

DEDUCTIBLES. Any deductible or self-insured retentions must be declared to and approved by City. Contractor shall guarantee that, at the option of the City, either: the insurer shall eliminate or reduce such deductibles or self-insured retentions with respect to City, its officers, employees, agents and volunteers (with additional premium, if any, to be paid by Contractor); or Contractor shall provide satisfactory financial guarantee for payment

10.of losses and related investigations, claim administration and defense expenses in the amount of any deductibles or self-insured retentions.

11. VERIFICATION OF COMPLIANCE. Contractor shall furnish City with the required endorsements attached hereto. All documents are to be received and approved by City before Work commences. Not less than fifteen (15) days prior to the expiration date of any policy of insurance required by this Contract, Contractor shall deliver to City a binder or certificate of insurance with respect to each renewal policy, bearing a notation evidencing payment of the premium therefore, or accompanied by other proof of payment satisfactory to City. Contractor shall provide full copies of any requested policies to City within three (3) days of any such request by City.

12. TERMINATION FOR LACK OF REQUIRED COVERAGE. If Contractor, for any reason, fails to have in place, at all times during the term of this Contract, including any extension hereto, all required insurance and coverage, City may immediately obtain such coverage at Contractor's expense and/or terminate this Contract. Contractor shall indemnify, defend and hold harmless City and its elected and appointed officers, employees, agents and volunteers from any claim resulting from failure of either Contractor or any subcontractor to take out or maintain any insurance required by this Contract.

13. EQUIPMENT COVERAGE. Any policy or policies of insurance Contractor or his subcontractors elect to carry as insurance against loss or damage to construction equipment and tools or other personal property shall include a provision waiving the insurer's right of subrogation against City.

GENERAL PROVISIONS

GARDENA COMMUNITY AQUATIC AND SENIOR CENTER – DEMOLITION PHASE (JN 978)

PART 1 – GENERAL PROVISIONS

SECTION 1 – GENERAL

1-1 GENERAL. The Standard Specifications for Public Works Construction (“Greenbook”) written and promulgated by the Southern California Chapter of the American Public Works Association and the Southern California Districts of the Associated General Contractors of California shall be the Standard Specifications of the City. All work shall conform to the 2021 edition, including supplements of the Standard Specifications, the Special Provisions which supplement or modify the Standard Specifications, and the Standard Drawings as issued by the City (defined herein as “Agency”) available at the time bids are opened unless otherwise specified in the Contract Documents.

The above referenced Standard Specifications, Special Provisions and Standard Drawings are hereby made a part of the Contract Documents.

For the convenience of the Contractor, the section and subsection numbering system used in these Special Provisions corresponds to that used in the Standard Specifications.

1-2 TERMS AND DEFINITIONS. Whenever in the Standard Specification the following terms are used, they shall be understood to mean and refer to the following:

- | | | |
|-----|-----------------------------|---|
| (a) | AGENCY | The City of Gardena, a California municipal corporation. |
| (b) | BOARD | The City Council of the City of Gardena |
| (c) | CONTRACT DOCUMENTS | Documents including but not limited to the proposal forms, Standard “Greenbook” Specifications, Special Provisions, Technical Provisions, Notice Inviting Bids, Instructions to Bidders, Bonds, Insurance, Contract and all Addenda setting forth any modifications of the documents. |
| (d) | ENGINEER | The City of Gardena Director of Public Works/City Engineer or his authorized representative. |
| (e) | BIDDER | An individual, co-partnership, association or corporation submitting a proposal for the work contemplated, acting directly or through a duly authorized representative. |
| (f) | LEGAL ADDRESS OF CONTRACTOR | The legal address of the Contractor to be the address given on the Contractor’s bid and is hereby designated as the place to which all notices, letters or other communications to the Contractor shall be mailed or delivered. |
| (g) | LABORATORY | An established laboratory approved and authorized by the |

Engineer for testing materials and work involved in the contract.

1-7 AWARD AND EXECUTION OF THE CONTRACT.

1-7.1 General. The proposal shall be fully executed and submitted on the forms provided by the Agency and shall be enclosed in a sealed envelope marked and addressed as directed in the "Notice Inviting Bids".

If the proposal is made by an individual, it shall be signed and his or her full name and address shall be given; if it is made by a firm it shall be signed with co-partnership name by a general partner thereof, who shall also sign his or her known name, and the name and address of each member of such co-partnership shall be given; if made by a corporation, the name of the corporation shall be signed by its duly authorized officers and attested by the corporate seal.

Bidders are warned against making erasures or alterations of any kind on their Proposal. Proposals which contain omissions, erasures, alterations, conditions or additions not called for may be rejected.

At the time the Contract is awarded by the Agency, the Contractor shall be licensed under the provisions of Chapter 9, Division 3, of the Business and Professions Code of the State of California to do the type of work contemplated in the Contract and shall be skilled and regularly engaged in the general class or type of work required by this Contract.

1-7.2 Contract Bonds. The "Performance Bond" is equivalent to City's "Faithful Performance Bond".

1-7.3 Examination of Plans, Specifications and Project Site. Bidders shall read the specifications, review the drawings and examine the existing facilities to fully understand the project in order to plan for the improvements as shown in the contract, including local condition, uncertainty of weather and all other contingencies.

Bidders shall satisfy themselves by personal examination of the proposed work sites, and by such other means as they may choose as to actual conditions and requirements and as to the accuracy of the quantities stated in the Proposal forms. Information derived from the maps, plans, specifications, profiles, drawings, or from the Engineer/Architect of the record, shall not relieve the bidder of this responsibility, and the interpretation of the data disclosed by borings or other preliminary investigations is not guaranteed nor is any liability assumed by the Agency.

1-7.4 Interpretation of Drawings and Documents. If a prospective bidder is in doubt as to the true meaning or intent of any part of the Contract Documents including the Specifications, or discovers discrepancies in, or omissions from, the Specifications or Drawings, he may submit to the Engineer a written request for an interpretation or a correction thereof. Interpretations or corrections of the Contract Documents including the Specifications and Drawings, shall be made only by addendum duly issued by the Engineer, and a copy of such addendum will be sent by certified mail, postage prepaid, or delivered to each person receiving a set of the Contract Documents whose address is known to the Engineer and such addendum shall be considered a part of and incorporated in the Contract Documents.

1-7.5 Award of Contract. After the Proposals have been publicly opened and read aloud, they will be checked for accuracy and compliance with all provisions as specified herein.

The Agency reserves the right to reject any or all bids and to waive any informality or irregularity in any bid received and to be the sole judge of the merits of the respective bids received.

Bids subsequently shown to be mathematically unbalanced would be rejected as nonresponsive.

A mathematically unbalanced bid is one containing lump sum or unit bid items which do not reflect reasonable actual costs plus a reasonable proportionate share of the bidder's anticipated profit, overhead costs, and other indirect costs, which he/she anticipates for the performance of the items in question.

"A bid is mathematically unbalanced if the bid is structured on the basis of nominal prices for some work and inflated prices for other work; that is, each element of the bid must carry its proportionate share of the total cost of the work plus profits."

"A bid is materially unbalanced if there is a reasonable doubt that award to the bidder submitting the mathematically unbalanced bid will result in the lowest ultimate cost to the Government. Consequently, a materially unbalanced bid may not be accepted."

Award of the Contract, if it be awarded, will ordinarily be made by the Agency within 30 days after opening of the bids. Award will be made to the lowest responsive responsible bidder.

In selecting the lowest responsive responsible bidder, consideration will be given to the general competency of the bidder for the performance of the work covered by the proposal. To receive favorable consideration, a bidder may be required to present evidence that he has successfully performed similar work of comparable magnitude or submit other evidence satisfactory to the Agency that he or his associates are competent to manage the proposed undertaking and to carry it forward to a successful conclusion. Professional integrity and honesty of purpose shall be essential requirements. A showing of adequate financial resources may be required but will not alone determine whether a bidder is competent to undertake the proposed work.

Only manufacturers or contractors of established reputation, or their duly authorized dealers or agency, having proper facilities for the manufacture of the materials or equipment and for servicing same, or for proper execution of the work called for in the contract, will be considered in making the award.

1-7.6 Execution of Contract. A bidder whose proposal is accepted shall properly sign a written contract with the Agency on the form attached hereto and return said contract together with good and approved bonds and insurance certificates as required by the Contract Documents within twenty-one (21) calendar days from the date of the mailing of a notice from the Agency to the bidder, according to the address given by him, of acceptance of his proposal.

Contract bonds and certificates of insurance, if required, shall be filed in all instances before delivering any equipment, materials, or performing any work under the contract; also before any purchase order shall be issued. An executed Power of Attorney form shall be submitted with all contract bonds herein specified.

If a bidder whose proposal is accepted fails or refuses to enter into a contract as herein provided, or to conform to any stipulated requirement in connection therewith, the money represented by his check or bidder's bond shall be refunded less the difference between the low bid and the bid of the bidder with whom the Agency enters into an agreement in accordance with the provisions of the Public Contracts Code Section 20174. At the discretion of the Agency, an award may be made to the bidder whose proposal is next most acceptable to the

Agency, and such bidder and his surety shall fulfill every stipulation embraced herein as if he were the party to whom the first award was made.

A corporation to which an award is made may be required before the contract is finally signed to furnish evidence of its corporate existence, of its right to do business in California and of the authority of the officer signing the contract and bonds for the corporation to so sign.

1-7.7 Return of Proposal and Guarantee. The check or bond of a bidder to whom the contract has been awarded will be returned to him after all of the acts, for the performance of which said security is required, have been fully performed. The checks or bid bonds of the second and third lowest bidders will be returned when the bidder to whom the contract has been awarded has properly executed all of the required Contract Documents. Check or bid bonds of other bidders will be returned when their proposals are rejected or in any event at the expiration of forty-five (45) days from the date of opening bids.

1-7.8 Precedence of Contract Documents. The order of precedence of contract document shall be:

FIRST	Requirements of law, including the Code and Ordinances of the City of Gardena.
SECOND	Permits from other agencies as may be required by law.
THIRD	Permits from City of Gardena Departments as may be required by law or ordinance.
FOURTH	The Contract.
FIFTH	The Bid Proposal.
SIXTH	Addenda.
SEVENTH	Notice Inviting Bids.
EIGHTH	Instructions to Bidders.
NINTH	Technical Provisions.
TENTH	Plans.
ELEVENTH	General Provisions of the Standard Specifications.
TWELFTH	Standard Plans.
THIRTEENTH	Standard Specifications for Public Works Construction (current edition).
FOURTEENTH	Caltrans Standard Plans and Specifications.
FIFTEENTH	Reference Specifications.

Change orders, supplemental agreements and approved revisions to Plans and Specifications will take precedence over documents listed above, except those listed as FIRST, SECOND and THIRD. Detailed plans shall have precedence over general plans.

SECTION 2 – SCOPE OF THE WORK

2-2 PERMITS. The Contractor will obtain, at no cost to the Agency, all permits necessary to perform the work on streets, highways, railways or other rights-of-ways. The Contractor shall obtain and pay for all costs incurred for permits necessitated by its operations such as, but not limited to those permits required for night work, overload, blasting and demolition. For private contracts, the Contractor shall obtain all permits incidental to the work or made necessary by its operations, and pay all costs incurred by the permit requirements.

The Contractor and each subcontractor employed upon the work must have or obtain a valid City of Gardena Business License in accordance with the provisions of the Gardena Municipal Code.

The project is subject to permit(s) from the Community Development Department. The permits are ready to be issued and the Contractor is required to pull the applicable project permits (i.e. demolition, grading, electrical, mechanical plumbing, building, etc.). The permit costs will be borne by the Contractor.

2.10 DISPUTED WORK.

2.10.1 Retention of Imperfect Work. If any portion of the work done or materials furnished under the contract proves defective or not in accordance with the specifications and contract drawings, and if the imperfection in the same is not of sufficient magnitude or importance to make the work dangerous or undesirable, or if the removal of such work is impracticable or will create conditions which are dangerous or undesirable in the opinion of the Engineer, the Engineer shall have the right and authority to retain the work instead of requiring it to be removed and reconstructed, but he shall make deductions therefor in the payment of the contract item due Contractor as may be just and reasonable.

2-11. DISPUTE RESOLUTION.

2-11.1 Requests for Contract Adjustments and Relief. If either Contractor or the Agency believes that it is entitled to relief against the other for any event arising out of or related to the work or Project, such party shall provide written notice to the other party of the basis for its claim for relief. Such notice shall, if possible, be made prior to incurring any cost or expense and in accordance with any specific notice requirements contained in the applicable sections of this Contract.

In the absence of any specific notice requirement, written notice shall be given within a reasonable time, not to exceed fourteen (14) days, after the occurrence giving rise to the claim for relief or after the claiming party reasonably should have recognized the event or condition giving rise to the request, whichever is later. Such notice shall include sufficient information to advise the other party of the circumstances giving rise to the claim for relief, the specific contractual adjustment or relief requested and the basis of such request.

2-11.2 Dispute Avoidance and Resolution. The parties are fully committed to working with each other throughout the Project and agree to communicate regularly with each other at all times so as to avoid or minimize disputes or disagreements. If disputes or disagreements do arise, Contractor and the Agency each commit to resolving such disputes or disagreements in an amicable, professional and expeditious manner so as to avoid unnecessary losses, delays and disruptions to the work under the Contract.

Contractor and the Agency will first attempt to resolve disputes or disagreements at the field level through discussions between Contractor's Representative and the Engineer.

If a dispute or disagreement cannot be resolved through the Contractor's Representative and the Engineer, Contractor's Chief Executive Officer or similar senior representative and the Gardena City Manager, or designee, upon the request of the other party, shall meet as soon as conveniently possible, but in no case later than twenty (20) days after such a request is made, to attempt to resolve such dispute or disagreement. Prior to any meeting between the parties' senior representatives, the parties will exchange relevant information that will assist the parties in resolving their dispute or disagreement.

If, after meeting, the senior representatives determine that the dispute or disagreement cannot be resolved on terms satisfactory to both parties, the parties may submit the dispute to binding or non-binding mediation. The mediation shall be conducted in any manner and by any person or mediation association mutually acceptable to the parties.

2-11.3 Arbitration. Any claims, disputes or controversies between the parties arising out of or relating to the Contract, or the breach thereof, which have not been resolved in accordance with the procedures set forth in Section 9-4.2 above may be decided by binding or non-binding arbitration. The arbitration shall be conducted in any manner and by any person or arbitration association mutually acceptable to the parties.

2-11.4 Claims Disputes. Any claims of Contractor, as "claims" are defined in California Public Contract Code Section 9204 shall be processed in accordance with that section. Section 9204 provides in relevant part that upon receiving a claim from a contractor, together with reasonable documentation to support the claim, a contracting public entity shall conduct a reasonable review of the claim and, within a period not to exceed 45 days [except as otherwise provided in Section 9204], shall provide the claimant a written statement identifying what portion of the claim is disputed and what portion is undisputed.

Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. If the public entity fails to issue a written statement, Section 9-4.3 shall apply. If the contractor disputes the public entity's written response, or if the public entity fails to respond to a claim within the time prescribed, the contractor may demand in writing an informal conference to meet and confer for settlement of the issues in dispute.

Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the public entity shall schedule a meet and confer conference within 30 days for settlement of the dispute. Within 10 business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the public entity shall provide the claimant a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed.

Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. Any disputed portion of the claim of the claim, as identified by the contractor in writing, shall be submitted to nonbinding mediation, with the public entity and the contractor sharing the associated costs equally. The public entity and contractor shall mutually agree to a mediator within 10 business days after the disputed portion of the claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to other applicable procedures.

2-13 DRAWINGS AND SPECIFICATIONS (“RECORD” DRAWINGS). At all times, the Contractor shall maintain at the project a “Record” set of Drawings and Specifications to include all executed addenda, change orders, and field orders.

Prior to each progress payment the Contractor shall deliver to the Engineer, a set of contract drawings with all applicable “as constructed” notes placed/recorded thereon. Failure to provide “as constructed” plans will cause progress payment to be withheld until information is provided to City.

After completion of the work and before final payment, the Contractor shall deliver to the Engineer a complete set of contract drawings with all applicable “as constructed” noted placed/record thereon. The final form and detail of these as constructed plans are subject to the acceptance of the Engineer.

2-14 MARKING REMOVAL. All markings placed by the Contractor, City, and Underground Service Alert (USA) during construction shall be removed at the completion of the work. These markings shall include, but not limited to, paint, stakes, and metal tags.

All cost associated with removal of markings shall be included in the bid prices for the applicable bid items. Failure of the Contractor to remove these markings shall be cause for the City to do the work and withhold the costs from the Contractor’s final payment.

SECTION 3 – CONTROL OF THE WORK

3-5 INSPECTION. Inspection shall be made once a day for areas ready for inspection. Areas or items that fail inspection or that are not ready for inspection shall be rescheduled by the contractor.

Inspection of the work shall not relieve the contractor of the obligation to fulfill all conditions and requirements of the contract.

3-6 THE CONTRACTOR’S REPRESENTATIVE. The Contractor shall furnish the Engineer with the name, address and cell/ business/home telephone numbers of the person responsible for the maintenance of barricades, traffic control signs, lights and other safety devices.

3-10 SURVEYING.

3-10.3 Line and Grade. Unless otherwise provided in the Technical Provisions, establishing lines and grades for construction shall be the responsibility of the Contractor, with the following provisions:

All work under this contract shall be built in accordance with the lines and grades shown on the plans. Field survey for establishing these, and for the control of construction, shall be the responsibility of the Contractor. All such surveys, including construction staking, shall be performed on all items ordinarily requiring grade and alignment, at intervals normally accepted by the agencies and trade involved.

The Contractor shall provide a copy of the office calculations and grade sheets to the Agency’s Inspector. The Contractor shall be responsible for any error in the finished work, and shall notify the Engineer within 24 hours of any discrepancies or design errors discovered during staking.

Unless a separate bid item is provided, the payment for surveying, construction staking, professional services, office calculations, furnishing all labor, materials, equipment, tools and

incidentals, and for doing all work involved shall be considered as included in the various items of work, and no additional compensation will be allowed therefor.

3-10.4 Permanent Survey Markers. The Contractor is required to locate and tie out survey monuments in the project area prior to construction involving street and highways, or City public right of way and to file with the County Surveyor a Corner Record of any such work. Prior to final payment and the issuance of a completion certificate, the Contractor is required to file a Corner Record for survey monumentation that is replaced. All such survey work shall be performed under the supervision of a California licensed Land Surveyor or a Civil Engineer authorized to perform such work.

The Contractor shall provide the Agency a copy of the office calculations and documents submitted to the County for filing in connection with the aforementioned work.

The payment for surveying, related professional services, office calculation, furnishing all labor, materials, equipment, tools and incidentals, and for doing all work involved shall be considered as included in the various items of work, and no additional compensation will be allowed therefor.

3-12 WORK SITE MAINTENANCE.

3-12.1 General. The Contractor shall keep the work site clean and free from rubbish and debris. The Contractor shall abate dust nuisance by cleaning, sweeping and sprinkling with water in keeping with the AQMD and NPDES requirements. Debris, soil or other matter shall not be washed into storm drains but shall be collected and disposed of in a legal, responsible manner. The construction area shall be cleaned with a power sweeper at the end of every workday and when deemed necessary by the Engineer.

The Contractor shall maintain drainage within and through the work areas. Earth dams will not be permitted in paved areas. Use temporary sandbags to control the site perimeter. At the completion of the project sandbags shall become the property of the City of Gardena and shall be remain in place.

The Contractor shall not spill on haul routes. Any such spillage shall be removed immediately and the area cleaned.

Stockpiling of construction materials or debris on City right-of-way shall be in accordance with the NPDES permit and shall be approved by the inspector. At the completion of work, the Contractor shall thoroughly clean all work areas.

3-12.2 Air Pollution and Surface Maintenance Control. The Contractor shall obtain a construction water meter from Golden State Water including required deposit and fees. The Contractor shall pay for the water used, at the current water rates. All arrangements for construction water shall be made by contractor with Golden State Water at Contractor expense.

3-12.4. Storage of Equipment and Material.

3-12.4.1 General. All costs associated with the disposal of all excavated or demolition materials, including any gate fees, shall be paid by the Contractor. These costs shall be included in the bid price for the applicable bid items.

Prior to any excavated or demolition material being removed from the construction site the Contractor shall notify the City as to the hauling route and destination for disposal. If the location for disposal is other than a county landfill then the Contractor shall provide the City with

written permission and release of liability for the City from the owner of the property where the material will be deposited.

The City has an exclusive agreement with Waste Resources, Inc. and no other firm may provide bulk trash bins in the event the work requires this service.

3-12.4.2 Storage in Public Streets. Construction equipment shall not be stored at the construction site, any public street or publicly owned facilities without approval of the City. Contractor shall store equipment at a contractor's rental yard.

All excavated material that is to be hauled to and disposed of at a County landfill site by the Contractor is subject to a County gate fee based on tonnage.

3-12.5.4 Protection and Restoration of Existing Improvements. Any facilities, structures, water lines, landscaping, surfaces, signs, pavement markings, painted curbs, house numbers, etc., which are damaged during construction shall be restored to the satisfaction of the City. Damaged water lines shall be repaired immediately at no additional cost to the city.

3-12.5.5 Access to Private Property. The Contractor shall be aware that business and residential access must be maintained at all times. The Contractor shall schedule operations to minimize interference with access to private property.

The main access way to any business or home shall not be completely blocked for more than one four-hour period a day except blockage shall be limited to one twenty-four (24) hour period when concrete is poured.

Temporary access ways shall be provided from the street to the main access way of all businesses and homes by use of traffic rated steel plates or any other method approved by the city.

Payment for this item shall be included in the applicable contract work item.

3-12.6.3 Storm Water Pollution Prevention Plan (SWPPP). The Contractor shall prepare and submit a storm water pollution prevention plan. The SWPPP shall conform to the requirements of the jurisdictional regulatory agency. Payment for this item shall be included in the applicable contract work item.

3-13 COMPLETION, ACCEPTANCE, AND WARRANTY.

3-13.3 Warranty. In addition to the guarantees as required in Section 1-7.2 and 3-13.3 of the Standard Specifications, the Faithful Performance Bond shall remain in full force and effect for a period of one year after acceptance of the work by the Agency to insure that defects, which may appear within said period, will be repaired, replaced, or corrected by the Contractor, at his own cost and expense, to the satisfaction of the Engineer within thirty (30) days after written notice thereof by the Agency.

SECTION 4 – CONTROL OF MATERIAL

4-1 GENERAL.

4-1.1 Warranty of Title. No materials, supplies or equipment for the work under this Contract shall be purchased subject to any chattel mortgage or under a conditional sale contract or other agreement by which an interest therein or any part thereof is retained by the seller or supplier.

The Contractor warrants clear and good title to all materials, supplies and equipment installed and incorporated in the work, and agrees upon completion of all work to deliver the premises, together with all improvements and appurtenances constructed or placed thereon by him to the Agency free from any claims, liens, encumbrances or charges, and further agrees that neither he nor any person, firm or corporation furnishing any material or labor for work covered by the Contract shall have any right to a lien upon the premises or any improvement or appurtenance thereon; provided, that this shall not preclude the Contractor from installing metering devices or other equipment of utility companies the title of which is commonly retained by the utility company. Nothing contained in this section, however, shall defeat or impair the right of such persons furnishing materials or labor under any bond given by the Contractor for their protection, or any right under any law permitting such persons to look to funds due the Contractor, which are in the hands of the Agency.

The provisions of this section shall be inserted in all subcontractor's and material contracts, and notice of its provisions shall be given to all persons furnishing materials for the work when no formal contract is entered into regarding such materials.

SECTION 5 – LEGAL RELATIONS AND RESPONSIBILITIES

5-4 INSURANCE. In lieu of Section 5-4 of the Standard Specifications, refer to the City Contract Documents Section, CD-10, for detail requirements.

5-5 ANTITRUST CLAIMS. By entry into this Contract, Contractor hereby acknowledges the terms of Section 7103.5 of the Public Contract Code and hereby offers and agrees to assign to the Agency all rights, title and interest in all causes of action it may have as outlined above.

5-7 SAFETY.

5-7.4 Hazardous Substances. As required by Public Contract Code Section 7104, if this Contract involves digging trenches or other excavations that extend deeper than four (4) feet below the surface, Contractor shall promptly, and prior to disturbance of any conditions, notify the Agency of: (1) any material discovered in excavation that Contractor believes to be a hazardous waste that is required to be removed to a Class I, Class II or Class III disposal site; (2) subsurface or latent physical conditions at the site differing from those indicated by the Agency; and (3) unknown physical conditions of an unusual nature at the site, significantly different from those ordinarily encountered in such contract work. Upon notification, the Agency shall promptly investigate the conditions to determine whether a change order is appropriate. In the event of a dispute, Contractor shall not be excused from any scheduled completion date and shall proceed with all work to be performed under the Contract but shall retain all rights provided by the Contract and by law for making protests and resolving the dispute.

5-7.4.1 Edison Energized Conductors. Contractor hereby promises and agrees that in the performance of the work specified in this Contract, it will employ and utilized only qualified persons, as hereinafter defined, to work in proximity to Edison's secondary, primary and transmission facilities. The term "qualified person" is defined in Title 8, California Administrative Code, Section 2700, as follows:

"Qualified Person: A person who by reason of experience or instruction is familiar with the operation to be performed and the hazards involved."

Contractor further promises and agrees that the provisions of this section shall be and are binding upon any subcontractor or subcontractors that may be retained by it, and

that Contractor shall take such steps as are necessary to assure compliance by said subcontractor or subcontractors with the requirements of this section.

5-7.4.2 Emergency Provisions. Unusual conditions may arise on the work which will require that immediate and unusual provision be made to protect the public from danger or loss or damage to life and property, due directly or indirectly to the prosecution of the work, and it is part of the service required of the Contractor to make such provisions and to furnish such protection.

Whenever, in the opinion of the Agency, an emergency exists of which the Agency is aware and against which the Contractor has not taken sufficient precaution for the safety of the public or the protection of utilities or of adjacent structures or property which may be injured by the progress of construction; and whenever, in the opinion of the Agency, immediate action shall be considered necessary in order to protect public or private personnel or property interests, or prevent likely loss of human life or damage on account of the operations under the Contract, then in that event the Agency may provide suitable protection to said interests by causing such work to be done and material to be furnished, as in the opinion of the Agency may seem reasonable and necessary, all at the expense of the Contractor.

SECTION 6 – PROSECUTION AND PROGRESS OF THE WORK

6-1 CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK

6-1.1 Construction Schedule. The Contractor's proposed construction schedule shall be submitted to the Engineer within fourteen (14) calendar days after the date of the contract execution. The schedule shall be supported by written statements from each supplier of materials or equipment indicating that all orders have been placed and acknowledged and setting forth the dates that each item will be delivered.

The Contractor shall include in his bid all costs to perform the work under this contract in stages. The Contractor shall begin and complete work in each stage prior to starting work in subsequent stages unless previous permission is obtained from the Engineer. The contractor shall stage the work to allow parking on the next adjacent streets. Restricting parking on multiple adjoining streets shall require approval of the engineer.

6-1.2 Commencement of the Work. City may establish a Notice to Proceed (NTP) date no later than thirty (30) calendar days after the date of the contract execution. Prior to issuing the Notice to Proceed, the Engineer will schedule a preconstruction meeting with the Contractor to review the proposed construction schedule and delivery dates, arrange utility coordination, discuss construction methods and clarify inspection procedures.

The names, addresses and telephone numbers of the Contractor and subcontractors, or their representatives, shall be filed with the Public Works Manager and the County Sheriff's Department or the City Police Department prior to beginning work.

The Contractor shall also notify the City of Gardena and the owners of all utilities and substructures within the Project area not less than 48 hours prior to starting construction. The following utility companies list of names and telephone numbers is intended for the convenience of the contractor and is not guaranteed to be complete or correct:

COMPANY	CONTACT	TELEPHONE NO.
Southern California Edison	Tricia Miller	626.533.0640

Southern California Gas	Melissa Fukunaga: Tech Services Planning: Attn - Lead Planner	213.231.7281
AT&T	Terence Little	626.817.4252
	Raymond Dover	310.515.4257
Gardena Police	Dispatch	310.3237911
L.A. County Fire Dept.		310.323.7911
Time Warner Communications	Arturo Fernandez	310.750.9099
Crown Castle	Hector Aguilera	951.454.5111
Waste Resources of Gardena	Lorena Rodriguez	310.366.7600
Golden State Water Co.	Conde Ventura	310.436.6950 x107
	Joseph Salcido	310.660.0320 x101
L.A. County Flood Control	Daryll Chenoweth	626.458.3129
L.A. Sanitation District	Jon Ganz	562.908.4288
Metropolitan Water District	Civil Eng. Substructures Section	213.217.7059
Chevron Pipeline	Dave Zerler	310.669.4014
Underground Service Alert		800.422.4133

The Contractor shall submit periodic Progress reports to the Engineer by the tenth day of each month. The report shall include an updated Construction Schedule. Any deviations from the original schedule shall be explained. Progress payments will be withheld pending receipt of any outstanding reports.

6-1.3 Working Day. The Contractor's working hours shall be limited to the hours between 8:00 A.M. and 4:00 P.M., Monday through Friday except holidays. Deviation from normal working hours will not be allowed unless written permission has been duly obtained beforehand from the office of the City Engineer. The Contractor shall provide adequate light for proper prosecution of the work, for the safety of the workmen and the public, and for proper inspection.

If the Contractor works beyond the allowed working hours without prior written approval from the Engineer, the Contractor may be charged Five Hundred (\$500) for each occurrence as required by the Engineer. The amount will be deducted from a progress payment or bond.

Contractor hereby acknowledges and shall be required to comply with the provisions of California Labor Code Section 1810 et seq. According to those sections, eight (8) hours of labor shall constitute a legal day's work. Contractor shall pay to the Agency a penalty of Twenty-Five Dollars (\$25.00) for each worker employed in the execution of this Contract by Contractor, or by any Subcontractor, for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any calendar day or forty (40) hours in any one (1) calendar week, except when payment for overtime is made at not less than one and one-half (1-1/2) times the basic rate for that worker.

In the event of either a requested or emergency deviation, inspection service fees will be charged against the Contractor. The service fees will be calculated at overtime rates including benefits, overhead and travel time. The service fees will be deducted from any amounts due to the Contractor.

6-1.4 Notice and Service Thereof. Any notice required or given by one party to the other under the contract shall be in writing and shall be dated and signed by the party giving such notice or by a duly authorized representative of such party. Any such notice shall not be effective for any purpose whatever unless served in the following manner:

Notice shall be given to the Agency by personal delivery thereof to the City of Gardena Engineer or by depositing the same in the United States mail enclosed in a sealed envelope, registered and with postage prepaid, addressed to:

Public Works Department
City of Gardena
1717 W. 162nd Street
Gardena, CA 90247-3778

Notice shall be given to the Contractor by personal delivery thereof to said Contractor or to his authorized representative at the site of the project, or by depositing the same in the United States mail, enclosed in a sealed envelope addressed to said Contractor at the address established for the conduct of the work under this Contract, postage prepaid and registered.

Notice shall be given to the Surety, or any other person, by personal delivery to said Surety or other person, or by depositing the same in the United States Mail, enclosed in a sealed envelope addressed to such Surety or persons at the address of said Surety or persons last communicated to the party giving the notice, postage prepaid and registered.

Notification of Property Owners and Tenants - The Contractor shall notify each property owner and/or tenant in the project area in writing five (5) working days prior to the start of construction. If pedestrian or vehicular access to private property is to be blocked, the Contractor shall again notify each property owner and/or tenant in writing five (5) working days prior to construction activities. The Contractor shall provide additional notices when a lapse time occurs during each phase/segment work.

The written notice shall be submitted to the Engineer for approval prior to being delivered.

6-2 PROSECUTION OF THE WORK.

6-2.1 Contractor's Responsibility for Work. Until the formal acceptance of the work by the Agency, the Contractor shall have the charge and care thereof and shall, subject to the insurance protection furnished in accordance with the Section 1-7.6 and 5-4 hereof, bear the risk of accident, loss or damage to any part thereof by action of the elements or from any other cause, whether arising from the execution or from the non-execution of the work. The Contractor shall rebuild, repair, restore and otherwise correct damages to any portion of the work occasioned by any of the above causes before its acceptance.

In case of suspension of work from any cause whatever, the Contractor shall be responsible for all materials and the proper temporary storage thereof.

6-3 TIME OF COMPLETION.

6-3.1 General. The contract time shall begin per the City's written notification. Work must be completed within working days specified for the project. In addition, the Contractor shall notify the City 24 hours in advance of the actual commencement of work.

No work shall be undertaken during the City's holiday closures. It is the Contractor's responsibility to determine the City's closure dates.

6-9 LIQUIDATED DAMAGES. The amount of liquidated damages is hereby amended to **\$500** for each consecutive calendar day.

SECTION 7 – MEASUREMENT AND PAYMENT

7-1 MEASUREMENT OF QUANTITIES FOR UNIT PRICE WORK.

7-1.2 Method of Measure. The quantities shown on the Bid Schedule are approximate only. The Contractor will be paid for the actual quantities of work based on approved field measurements as provided for in these Specifications. The City reserves the right to increase or decrease the amount of any item or portion of work to be performed or materials furnished, or to delete any item, in accordance with the Specifications. Additional bid item work shall be completed within the total working days in these specifications. Additional working days maybe allowed with the approval of the engineer.

7-3 PAYMENT.

7-3.2 Partial and Final Payment. The closure date for periodic progress payments will be the twenty-fifth day of each month. Authorization to pay is commonly received on the tenth day of the following month. However, payments will be withheld pending receipt of any outstanding reports required by the Contract Documents.

7-3.3 Delivered Materials. The City will NOT honor or make any progress payments for materials ordered and delivered to the job site by the Contractor unless prior approval is obtained from the Engineer.

7-4 PAYMENT FOR EXTRA WORK.

7-4.3 EXTRA WORK. When work is performed on a "time and materials" basis, the following percentages shall be added to the Contractor's cost and shall constitute the markup for all overhead and profits:

1)	Labor	20
2)	Materials	15
3)	Equipment Rental	15
4)	Other Items and Expenditures	15

To the sum of the costs and markups provided for in this section, 1 percent shall be added as compensation for bonding.

When all or any part of the extra work is performed by a Subcontractor, the markup established above shall be applied to the Subcontractor's actual cost of such work. A markup of 10 percent on the first \$5,000 of the subcontracted portion of the extra work and a markup of 5 percent on work added in excess of \$5,000 of the subcontracted portion of the extra work may be added by the Contractor.

END OF GENERAL PROVISIONS

TECHNICAL PROVISIONS

GARDENA COMMUNITY AQUATIC AND SENIOR CENTER – DEMOLITION PHASE, (JN 978)

DEMOLITION

PART 1 – GENERAL

1.1 DESCRIPTION

A. Scope:

1. CONTRACTOR shall provide all labor, materials, equipment and incidentals as specified and required for demolition, removal and disposal.
2. Location. Three (3) properties the known addresses to be demolished are as follows:
 - A. 1654 West 160th Street, Gardena – 2- One story, a single level rectangular in shape (approximately 28'x65'") Primm Memorial Pool building, consists of men's and women's shower/bathroom/lockers, and check-in booth and Pool Equipment room, (approximately 15'x60'), consists of misc. pool equipment, filters. Pumps and misc. utilities.
 - B. 16004 S. Harvard Blvd, Gardena – Semi-two (2) story, 1943 year built, fourplex residential structure (2B/1Ba Each). The square footage of this building is approximately 3,100 and 10,890 lot. At the rear of the property is a detached structure with 4 single-car garages. The garage structure is approximately 40'x20'.
 - C. 16010 S. Harvard Blvd, Gardena – Semi-two (2) story, 1943 year built, fourplex residential structure (2B/1Ba Each). The square forage of this building is approximately 3,100 and 9,128 lot. At the rear of the property is a detached structure with 4 single-car garages and 10'x8' shed. The garage structure is approximately 50'x20' including a shed.
3. Included, but not limited to, are demolition and removals of existing materials, equipment, as shown and specified, and to connect same with existing work in an approved manner. Demolition includes structural concrete, foundations, walls, doors, windows, structural steel, metals, roofs, masonry, attachments, appurtenances, piping, electrical and mechanical equipment, paving, curbs, walks, fencing, brush, rubbish, scrap, and similar existing facilities. The CONTRACTOR shall also be responsible for the removal of hazardous materials including asbestos and lead based paint as specified in these specifications.
4. Demolition and removals which may be specified under other Sections shall conform to requirements of this Section.
 - A. Demolition Procedures: Submit to the City for approval proposed methods, equipment, and operating sequences.
 - B. Demolition Schedule: The CONTRACTOR shall submit a schedule to the Engineer which indicates the proposed sequence of demolition.

1.3 JOB CONDITIONS

- A. Review of Existing Conditions: By submitting a Bid, the CONTRACTOR acknowledges that all existing conditions have been reviewed and the CONTRACTOR is familiar with the nature, extent, and quantity of the demolition work to be performed.
- B. Protection:
1. Perform all demolition and removal work to prevent damage or injury to structures, occupants thereof and adjacent features which might result from falling debris or other causes, and so as not to interfere with the use, and free and safe passage to and from adjacent structures.
 2. Closing or obstructing of roadways, sidewalks, and passageways adjacent to the Work by the placement or storage of materials will not be permitted, and all operations shall be conducted with a minimum interference to traffic on these ways.
 3. CONTRACTOR shall repair damage caused by CONTRACTOR to facilities to remain at CONTRACTOR's expense or to any property belonging to the CITY ENGINEER or occupants of the facilities.
 4. Streets, roads, adjacent property and other works and structures shall be protected throughout the entire project. CONTRACTOR shall return to original condition damaged facilities caused by the CONTRACTOR's operations at the CONTRACTOR's expense.
- C. Scheduling:
- CONTRACTOR shall carry out operations so as to avoid interference with CITY's operations and work in the existing facilities.
- D. Notification:
- At least ten (10) days prior to commencement of a demolition or removal in a particular area, the CONTRACTOR shall notify the City Engineer in writing of a proposed schedule. The CONTRACTOR shall schedule a meeting with the Engineer to review existing conditions, review the demolition schedules, and confirm specific items to be salvaged. Do not start removals without the permission of the City in writing.
- E. Explosives:
- Blasting will not be permitted.

EXECUTION

2.1 GENERAL

- A. CONTRACTOR shall divert, crush and salvage all asphalt, aggregate base and concrete. These materials shall be deposited in the staging area. All materials and equipment not to be salvaged shall be removed from existing work, shall be disposed of by the CONTRACTOR.
- B. CONTRACTOR shall dispose of all demolition materials, equipment, debris, shrubs, brush, masonry, metals, rubbish, scrap, fences, and all other items off the site and in conformance with all existing applicable laws and regulations. -

- C. Pollution Controls: Use water sprinkling, temporary enclosures, and other suitable methods to limit the amount of dust and dirt and debris caused by demolition operations. Comply with governing regulations pertaining to environmental protection.
 - 1. Do not use water when it may create hazardous or objectionable conditions such as ice, flooding, and pollution. All water, silt and sediment shall be kept out of the City's storm drain system.
 - 2. Clean adjacent structures, facilities, and improvements of dust, dirt, and debris caused by demolition operations. Return adjacent areas to conditions existing prior to the start of the work.

2.2 BUILDING DEMOLITION

- A. Remove structural framing members and lower to ground by means of hoists, derricks, or other suitable methods.
- B. Break up and remove foundations and slabs-on-grade and deposit in staging area.
- C. Locate equipment used for demolition and remove demolished materials, so as not to impose excessive loads on supporting walls, floors or framing.
- D. Wall mounted equipment, piping, and appurtenances mounted to walls to be removed shall also be removed.

2.3 STRUCTURAL REMOVALS

- A. All concrete, brick, tile, masonry walls, concrete block, roofing materials, reinforcement, structural or miscellaneous metals, plaster, wire mesh and other items contained in or upon the structure that are designated for demolition shall be diverted or taken from the site.

2.4 MECHANICAL REMOVALS

- A. Mechanical removals shall consist of dismantling and removing of existing piping, pumps, motors, boilers, tanks, water heaters, sinks, faucets, mechanical equipment and other appurtenances as specified or required for the completion of the demolition.
- B. Existing process, water, chemical, gas, fuel, oil and other piping shall be removed.
- C. Other underground piping like the existing sewer line, gas line, and water line shall be removed (or capped) per the demolition plans within 5' of building. If utility company requires removal to the meter, contractor shall sawcut and replace existing sidewalk in order to access meter.
- D. All drain waste and vent piping shall be removed within 5' of building.
- E. For all mechanical equipment to be removed with hydraulic controls, CONTRACTOR must ensure that the system pressure for the hydropneumatic system is relieved and that the piping system is drained prior to demolition.

ELECTRICAL REMOVALS

- A. Electrical removals shall consist of the removal of existing control panels, motors, conduits and wires, panel boards, lighting fixtures, and miscellaneous electrical equipment.
- B. Motors shall be disconnected and removed.
- C. Conduits and wire shall be removed whenever an individual piece of equipment or a group of equipment is removed. All associated power and control, conduits

and wire (which is no longer in use) shall be removed. All wires in abandoned conduits shall be removed or salvaged.

- D. Wiring in any underground duct system shall be removed. All such wiring shall be salvaged or removed. CONTRACTOR shall verify the function of all wiring before disconnecting and removing it.
- E. Direct-burial cable shall be removed within five feet of the building.
- F. Panel boards and control panels shall be removed and disposed.
- G. Lighting fixtures shall be removed and disposed.

2.6 PIPE, UTILITY AND CONDUIT REMOVALS

- A. Removal of Buried Piping: Remove all buried piping, concrete cradles, encasements and piling encountered during excavation within five feet of the building.
- B. Removal of Existing Cable: CONTRACTOR shall remove all existing cable within five feet of the building.
- C. All explosive or hazardous gas or liquid lines shall be purged and made safe prior to removal, demolition, relocation, or modification.

2.7 PAVING, CURB AND GUTTER REMOVALS

- A. At limit of demolition where removal of existing asphalt pavement is required for construction, the existing pavement shall be saw-cut in a straight line to a minimum depth of 2 inches. Replacement of paving not designated to be removed shall be done in accordance with Division 2, Site Work, of these Specifications.
- B. At limit of demolition where removal of existing concrete pavement, sidewalk, curb or gutter is required for construction, the demolition shall in general, be to the nearest construction joint. Saw cutting shall be required when the line of removal is not an existing construction joint, so that the surface contact between the new and existing concrete will be a straight line. The minimum depth of the saw cut shall be 2 inches.
- C. All curb, gutter, driveway, and sidewalk shall be removed as shown on the plans diverted, crush and stockpiled on site. All costs associated with removal of sidewalks, curbs, gutters, and driveways including all labor, equipment, and materials, shall be included in the Bid Item for Clearing and Grubbing and no additional compensation will be made therefor.
- D. All concrete foundations, concrete slabs, and concrete flooring shall be removed diverted, crush and stockpiled on site as plans. Payment for removal of concrete foundations, flooring, and slabs shall be included in the Bid Item for Building Demolition and no additional compensation will be made therefor.

2.8 CLEARING AND GRUBBING

- A. Remove obstructions, trees, shrubs, grass, and other vegetation to permit installation of new construction. Removal includes digging out stumps and obstructions and grubbing roots.
 - 1. Do not remove trees, shrubs, and other vegetation indicated to remain or to be relocated.
 - 2. Cut minor roots and branches of trees indicated to remain in a clean and careful manner where such roots and branches obstruct installation of new construction.

3. Completely remove stumps, roots, obstructions, and debris extending to a depth of 18 inches below exposed sub-grade.
 4. Use only hand methods for grubbing within drip line of remaining trees.
- B. Fill depressions caused by clearing and grubbing operations with satisfactory soil material, unless further excavation or earthwork is indicated.
1. Place fill material in horizontal layers not exceeding 8-inch (200-mm) loose depth, and compact each layer to a density equal to adjacent original ground.

2.9 CLEAN-UP

- A. CONTRACTOR shall remove from the site all debris resulting from the demolition operations as it accumulates. Debris shall be disposed of at a legal point of disposal that is permitted to accept the type of waste being removed. Upon completion of the Work, all materials, equipment, waste, and debris of every sort shall be removed and premises shall be left clean, neat, and orderly. CONTRACTOR shall submit proof to the CITY ENGINEER of compliance with this requirement. Proof shall be in the form of dump tickets or bills of sale or other documentation or pre-authorization by the CITY ENGINEER.

HAZARDOUS WASTE MANAGEMENT AND DISPOSAL IN CONNECTION WITH THE DEMOLITION OF THE SITE BUILDINGS

PART 1 – GENERAL

1.1 BACKGROUND

- A. The Site consists of 1 acres of land, formerly developed as a pool complex and 2-two story residential houses. The City of Gardena is proposing to redevelopment the Site for recreational Aquatic and Senior Center. The Center is proposed to include a range of facilities including a recreational pool, senior community center with outdoor exercise and picnic areas.

The Site is currently developed with 2-two story family residences and associated structures (garages, etc.), two pool house structures, and two garages.

SCS Engineers (SCS) has conducted the following assessment and subsurface assessment activities at the Site:

The Hazardous Materials Survey and the Hazardous Materials Abatement Specifications are discussed in the various sections below.

1.2 SUMMARY

- A. This project shall involve the demolition of Site buildings (see demolition drawings and specifications) and the proper management of wastes generated during the process. Some of the wastes generated during the process may be hazardous or contain hazardous components. These hazardous wastes, as defined by all federal, state, and local regulations, shall be properly managed as specified in Part 3 of this document. Proper management of hazardous wastes

includes but is not limited to sampling, testing, packaging, labeling, storage, containment, and disposal.

1.3 HEALTH AND SAFETY REQUIREMENTS

- A. As indicated in Section 1.1 above, elevated concentrations of various toxins the potential that demolition contractors may be exposed to elevated concentrations of any known or unknown Haz Mat, and in general accordance with 29 CFR 1910.1000, the following OSHA requirements must be followed.
1. Because there is a potential that demolition workers may be exposed to elevated concentrations of CoCs, until a Negative Exposure Assessment (NEA) is established by the demolition contractors industrial hygienist (discussed below), the demolition contractor shall require Site workers to wear proper Personal Protective Equipment (PPE) including, but not limited to an appropriate respirator, Tyvek suit, protective gloves, hard hats, steel toed boots, etc. In addition, a hand washing station shall be provided.
 2. Personnel monitoring (air monitoring and analysis for organochlorine pesticides) must be conducted on demolition workers until laboratory analysis indicates that the workers are not exposed to concentrations of organochlorine pesticides above the Permissible Exposure Levels (PELs) established by OSHA.
 3. Personnel monitoring and PPE can be discontinued when the demolition contractor's industrial hygienist can demonstrate, through statistically reliable methods, that the workers are not being exposed to organochlorine pesticide concentration above the PELs.
 4. It is the responsibility of the demolition contractor to decontaminate demolition equipment potentially contaminated with CoC's using at a minimum a wash station with a gravel pad, prior to leaving the Site.
 5. Based on the potential for exposure to elevated concentrations of toxic materials, the demolition contractor must comply with 29 CFR 1910.1200 (Hazard Communication Standard) and CCR Section 8. As indicated in the above-referenced standards, the demolition contractor is responsible for implementing a Medical Monitoring Plan and Respiratory Protection Plan for pesticide residues in compliance with California and Federal OSHA requirements and good occupational medical practices.
 6. In accordance with the Hazardous Communication Standard, the demolition contractor shall provide training for Site workers that complies with the standard. Training must include the specific health effects of exposure to organochlorine pesticides, respiratory protection, and PPE assessment. Evidence of training, medical monitoring, and respirator fit test shall be provided to the ENGINEER.

1.4 SUBMITTALS

- A. Before Start of Work: Submit the following to the ENGINEER for review. Do not start work until these submittals are returned with the ENGINEER'S written approval indicating that the submittal is complete and acceptable.

1. Plan of Action outlining the procedures used for the identification, removal, testing, (if applicable) packaging, labeling, storage, containment, and disposal for each hazardous waste anticipated.
2. Name, address, phone number, company representative name, and EPA Generator Identification number for each company that shall be managing the transportation, treatment, storage, and/or disposal of the waste generated from this project.
3. Identify the disposal method, which shall be utilized for each type of waste generated.
4. Name, address, phone number, company representative name, and certification number for all state certified hazardous waste testing laboratories used to perform analytical testing. Include a list of the tests the laboratory is certified to perform under the laboratory's state hazardous waste testing certification.

B. Weekly:

1. Hazardous Waste Log tracking all hazardous waste generated on site. The Hazardous Waste Log shall be maintained on a daily basis and a copy of the log must be submitted to the ENGINEER on a weekly basis. A copy of the week's log shall be provided to the ENGINEER no later than the second working day of the following week. The daily Hazardous Waste Log shall contain the following:
 - a. The number used to identify each container of hazardous waste as specified in Part 3, Section 3.04 of this document.
 - b. The accumulation start date for each container of hazardous waste.
 - c. The intended disposal method for each container of hazardous waste
 - d. The disposal location where each container of hazardous waste will be shipped.

C. Ten Working Days Prior to Transportation Waste Off Site:

1. Submit to the ENGINEER a draft hazardous waste manifest which shall be used to ship each hazardous waste from the project site to the disposal location.
2. The ENGINEER shall return an approved completed manifest within three working days of receipt.

D. The Day the Waste is Transported Off Site:

1. Any changes to the manifest after it has been approved shall be cleared through the ENGINEER before the waste is transported offsite.
2. The ENGINEER shall sign the manifest as representing the generator at the time the hazardous waste is being removed from the site. Pre-signed manifests are not acceptable.
3. Two copies of the manifest shall be provided to the ENGINEER prior to the transporter leaving the site.

E. Contingency Plan:

Prepare a contingency plan for the release of hazardous materials or hazardous waste to the ground, air or water. A release is defined as any spilling, leaking, pumping, pouring, emitting, emptying, discharging, dumping, or disposing into the environment. The contingency plan shall include the following:

- a. Contacts (ENGINEER) which shall be notified when a release occurs including a specified time by which the notification shall be given to the ENGINEER.
- b. Procedures for the identification of any unknown substances released.
- c. Procedures for the containment, cleanup, storage, and disposal of the released material.

PART 2- PRODUCTS

2.1 EMPLOYEE TRAINING

Any contracted employee who manages hazardous waste shall be trained to ensure compliance with the regulations, and all contracted staff working at the job site shall be able to respond effectively to emergency situations including chemical spills (22 CCR66265.16).

2.2 WASTE CHARACTERIZATION

A hazardous waste determination shall be performed on all waste generated on site within 10 days of generation to determine if it meets hazardous waste criteria as specified in 22 CCR Division 4.5 or any other pertinent law or regulation. Substances requiring analytical testing shall be sampled and tested in accordance with Part 2, Section 2.08 of this document.

2.3 REMOVAL

- A. All hazardous waste shall immediately upon generation be placed in an approved container as specified in Part 2, Section 2.4 of this document. No interim containers including but not limited to bags, transfer containers, buckets, or pails shall be acceptable.
- B. Hazardous wastes or items and equipment containing hazardous wastes shall be removed and handled in such a way as to minimize the possibility of a release.

2.4 PRE-TRANSPORTATION REQUIREMENTS

- A. Any packaging used to store and or transport hazardous waste off site such as a container, roll-off bin, tank or other device, shall comply with 49 CFR Parts 173, 178, 179 and be labeled and prepared for transportation in accordance with 22 CCR Article 3.
- B. The hazardous waste label shall be affixed to the container and filled out when the first amount of hazardous waste is placed in the container. The label shall include the initial accumulation date, contents of the container, physical state and hazardous properties of the waste, and generator information. Appendix A in Section C contains a sample hazardous waste label.
- C. The contractor shall use a numbering system to identify each hazardous waste container. Each hazardous waste container shall be marked with an identification number specific to that individual container. All markings shall be made in indelible ink no larger than 3 inches in height on the top of the container.

- D. All additional pre-transportation labeling, marking, or placarding shall be conducted prior to transporting off site and in accordance with 22 CCR Chapter 12, Article 3.
- E. All containers used to package hazardous waste shall be compatible with the waste (22 CCR 66265.172), maintained in good condition (22 CCR 66265.171), and kept closed unless adding or removing waste (22 CCR 66265.173).
- F. Different waste types shall be stored in separate containers and incompatible wastes shall never be combined.
- G. All containers and tanks of hazardous waste shall be managed in a way which minimizes the threat of fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste to the air, soil, or surface water which could threaten human health or the environment (22 CCR 66265.31). Management techniques include containment areas capable of holding the contents of largest container within the containment area.
- H. The contractor shall perform inspection of their hazardous material and hazardous waste storage areas daily to ensure compliance with the regulations. Any spills, leaks, damaged or unlabeled containers shall be immediately corrected once identified. All inspections must be documented and copies provided to the ENGINEER upon request.
- I. Secondary containment shall be provided for all storage areas containing 55 gallons or more of hazardous material or a hazardous waste. The secondary containment area must be capable of holding the contents of the largest container plus ten percent of that volume.

2.5 ACCUMULATION TIME

Each container of hazardous waste shall be shipped offsite for disposal by a registered hazardous waste hauler within 40 days of the date of initial generation or by the end of the project, whichever comes first.

2.6 TRANSPORTATION REQUIREMENTS

- A. The CONTRACTOR shall supply the ENGINEER with the EPA Generator Identification number for the work site. This number is site specific and shall only be used on hazardous waste disposal documentation for the appropriate site where the waste was generated.
- B. A hazardous waste manifest shall be completed in accordance with 22 CCR Chapter 12, Article 2 for any shipment of hazardous waste leaving the work site.
- C. The submission of each manifest to the ENGINEER shall be done as specified in these Specifications.
- D. Only an ENGINEER pre-approved, licensed hazardous waste transportation company shall transport hazardous waste off site to a pre-approved disposal location in accordance with 22 CCR Chapter 13. Any contractor who allows the transportation or disposal of hazardous waste from a City site by an unauthorized vendor, upon conviction, shall be punished up to 3 years in prison and fined up to \$100,000 per day (HSC 25163, 25189.5).

2.7 MANAGEMENT OF SPECIFIED WASTES

- A. Hazardous Materials Containers:

All empty hazardous material containers shall be managed as specified in 22 CCR 66261.7 and outlined as follows:

- a. Empty the entire contents of a hazardous material container.
 - i. If a liquid, pour or drain the contents from the container so that no hazardous material remains in the container when it is held in any orientation (e.g., inverted, tilted, etc).
 - ii. If not a liquid, remove the hazardous material by a physical method so that no more than a thin uniform film remains in the container.
- b. The hazardous material that is removed from the container is used as a material or disposed of as a hazardous waste.
- c. Mark each container with the date it was emptied. Manage the container within one year by one of the following methods:
 - i. Reclaim the scrap value of the container.
 - ii. Send the container off for reconditioning or re-manufacturing.
 - iii. Send the container back to the manufacturer.
- d. For containers 5 gallons capacity or less, once the container is empty, it may be disposed of to the regular trash.
- e. Aerosol spray containers may be disposed of in the regular trash if the contents and propellant have been emptied to the maximum extent practical under normal use (i.e., the spray mechanism was not defective and thus allowed complete discharge of the contents and propellant.)
- f. A compressed gas cylinder is empty when the pressure in the container approaches atmospheric pressure.

B. Florescent Light Tubes

C. PCB Containing Florescent Light Ballasts

D. Oils Containing PCB's:

1. All oils including oil in electrical equipment and or fixtures shall be identified by an experienced electrician to determine if the oil contains PCB's prior to offsite removal. As necessary, identification includes sampling and analytical testing. The results of any assessment performed by an experienced electrician shall be provided to the ENGINEER within 1 working day of completion of the assessment.
2. Oils containing PCB's shall be managed as hazardous waste as specified in these Specifications.
3. The facility designated for incinerating of oils containing PCB's shall be pre-approved by the ENGINEER prior to waste being shipped offsite.
4. A hazardous waste manifest shall be completed prior to shipping the waste offsite with a completed copy provided to the ENGINEER the day the waste is shipped offsite.
5. Other specialty oils meeting the definition of "used oil" (as defined in HSC 25250.1) shall be managed as specified in these Specifications.

E. Sodium and Mercury Containing Light Bulbs:

All sodium and mercury containing light bulbs shall be considered hazardous waste and managed as specified in these Specifications unless a hazardous waste determination is performed indicating the waste to be non-hazardous.

- a. The results of all waste determinations shall be approved by the ENGINEER prior to a hazardous or presumed hazardous waste being reclassified as non-hazardous.

F. Asbestos & Lead Paint

1. Removal requirements in connection with materials containing asbestos & lead paint are included in the following document (Appendix B):
 - *Pre-Demolition Asbestos and Lead in Paint Survey of pool locker and restroom building*, dated January 10, 2020.
 - Asbestos and Lead Survey of 16004 and 16010 S. Harvard Blvd, 2-four plex buildings, dated August 12, 2021.
 - *Asbestos Containing Materials and Lead-Based Paint Demolition Survey Report*, dated October 29, 2021.

2.8 SAMPLING AND ANALYTICAL TESTING REQUIREMENTS

- A. Each testing method shall be approved by the ENGINEER as appropriate for the sample being tested prior to having a certified laboratory conducting the test.
- B. Representative samples shall be obtained for each waste to be tested with the sampling procedure pre-approved by the ENGINEER.
- C. The ENGINEER shall be contacted prior to sampling, and if possible, be present to observe the sampling.
- D. All containers (jars, bags, etc.) used for sampling shall be certified as pre-cleaned.
- E. A copy of all analytical test results received by the contractor shall be provided to the ENGINEER within 1 working day of receipt from the certified testing laboratory.

2.9 HAZARDOUS MATERIALS AND HAZARDOUS WASTE SPILLS

- A. All spills involving hazardous materials or hazardous waste shall be immediately reported to the ENGINEER.
- B. All spills and any contaminated media (rags, absorbents, soil, etc.) shall be immediately cleaned up and handled as hazardous waste as specified in these Specifications unless a hazardous waste determination is performed indicating the waste to be non-hazardous.
- C. A 304 Spill Report Form shall be completed and faxed to the ENGINEER for all spills of hazardous materials or hazardous wastes in quantities equal to or exceeding 5 gallons in quantity. Some spilled hazardous materials or hazardous wastes may require completion of a 304 Spill Report Form in quantities of less than 5 gallons. The ENGINEER shall determine if a 304 Spill Report Form is required for spills less than 5 gallons in quantity. Appendix B contains a blank 304 Spill Report Form, as included in Part 4.

2.10 DISASSEMBLY

- A. All devices including but not limited to equipment, fixtures, structures, storage tanks, fuel and chemical feed lines shall be disassembled in such a way as to minimize the release of any hazardous materials or hazardous waste contained within the device.

- B. Any hazardous materials or hazardous wastes encountered during disassembly shall be managed as specified in Part 2 of this document.
- C. All equipment such as piping, chemical feed or distribution lines, transformers, storage tanks, that has the potential to contain a hazardous substance shall be assumed to contain a hazardous substance and handled accordingly.
- D. All piping, chemical feed or distribution lines, storage tanks, containers or storage devices which were used for storage or transfer of hazardous substances shall be properly decontaminated prior to disassembly. The ENGINEER shall be consulted prior to and after disassembly to ensure adequate levels of decontamination have been achieved.
- E. Personal protective equipment appropriate to the level of protection required by the circumstance in which an employee is working shall be provided by the contractor to all the contractors employees. Personal protective equipment shall be provided to any employee before the employee enters a work area where hazardous materials or hazardous wastes may exist.

2.11 SUBMITTAL CHECKLIST

A. Before Start of Work:

1. General

- _____ Plan of Action
- _____ Contingency Plan
- _____ Waste Management Plan
- _____ Name, Address, Phone Number, and Company Contact for each disposal, salvage, recycling. And composting facility used.

2. Hazardous Waste Disposal and Laboratory Testing

- _____ Name, address, phone number, company contact, and EPA Identification Number for each licensed hazardous waste hauler used
- _____ Name, address, phone number, company contact, and EPA Identification Number for each TSDF used
- _____ Disposal method utilized for disposal of each waste stream (as specified in Part 2 of this document)
- _____ Name, address, phone number, company contact, and certification number for each certified hazardous waste testing laboratory used
- _____ A list of the tests each laboratory is certified to perform under the laboratory's State certification

B. Weekly

1. Hazardous Waste Logs

- _____ Copies of daily hazardous waste logs
- _____ Disposal/Salvage/Recycling Tonnage Receipts

C. Periodically During Work:

1. General

- _____ 304 Spill Report Forms (as necessary)
- 2. _____ Hazardous Waste Disposal and Laboratory Testing
- _____ Draft manifests for approval (submitted prior to disposal)
- _____ Two copies of each hazardous waste manifest
- _____ Copies of all other disposal receipts (i.e., Bills of Lading)
- _____ Copies of analytical test data
- _____ Copies of daily hazardous waste logs (submitted weekly)

LEAD BASED PAINT ABATEMENT

PART 1 – GENERAL

1.1 DESCRIPTION (note contractor to refer to all Hazardous Material Reports included in the Appendix B of this document)

A. Scope:

1. CONTRACTOR shall provide Storm Water Pollution Prevention Plan, tools, and materials for the removal and disposal of all lead based paint materials from structures designated for demolition in accordance with applicable federal, state, and local governmental regulations and the Contract Documents.
2. A preliminary lead based paint survey has been performed and is described in the hazardous materials study done by Air America Testing. The purpose of this survey was to identify lead based paint containing materials scheduled for demolition. The level of detail of the survey was limited to readily accessible suspect lead based paint containing material, and was designed to confirm the presence or absence of lead based paint in locations other than those that were sampled. This study and the information contained therein is provided for information only. It shall be the CONTRACTOR'S responsibility to visit this project site prior to commencing the Work, and to assess the exact amounts and types of lead based paint containing materials present, as well as the physical difficulty involved in its complete removal.
3. Worker protection and monitoring, containment system specifications, environmental protection, and waste handling and disposal.
4. Method of lead based paint removal shall be accomplished by using shrouded, HEPA vacuum-assisted power tools which have been recognized by OSHA (pursuant to 1926.62), or otherwise demonstrated to generate lead emissions exposures below 30 µg/m³ when used in accordance with manufacturer's written recommendations.
5. Method of lead based paint removal from plaster, stucco surfaces, wood cabinets or other surfaces subject to potential damage by the use of power tools shall include chemical stripping compounds and hand scraping. Chemical stripping compounds shall be free of methylene chloride and of lowest possible level of chemical toxicity possible consistent with lead based paint system to be removed.
6. Submit a detailed job-specific plan of the procedures proposed for use in complying with the requirements of this specification. Include in the plan the location, size, layout and details of the Work Areas and worker decontamination facilities. Include the sequencing of abatement work, the interface of trades involved in the performance of work, methods to be

used to assure the safety of building occupants and visitors to the site, disposal plan including location of approved disposal site, and a detailed description of the methods to be employed to control pollution. Method of removal to reduce lead dust generation in the Work Area, and packaging of removed lead paint, dust and debris. Describe the methods that will be used to comply with OSHA requirements including submission of exposure monitoring to demonstrate adequacy of respiratory and worker protection equipment selected. The plan must be approved by the Engineer prior to commencement of work.

7. Prior to commencement of work, examine areas in which work will be performed with the Engineer. Prepare a listing of damage to structure, surfaces, equipment or of surrounding properties which could be misconstrued as damage resulting from the work. Photograph or videotape existing conditions as necessary to document conditions. Submit to Engineer prior to starting work.
8. The disturbance or dislocation of lead-based painted materials may cause lead dust to be released into the atmosphere, thereby creating a potential health hazard to workers and area occupants. Apprise all workers, supervisory personnel, subcontractors and consultants who will be at the job site of the seriousness of the hazard and of proper work procedures which must be followed.
9. Where in the performance of the work, workers, supervisory personnel, subcontractors, or consultants may encounter, disturb, or otherwise function in the immediate vicinity of any identified lead-based paint, take appropriate continuous measures as necessary to protect all building occupants from the potential hazard of exposure to lead dust. Such measures shall include the procedures and methods described herein, and in compliance with regulations and guidelines of applicable federal, state and local agencies.
10. If the Engineer or Project Monitor presents a written or verbal stop work order, or if stop work levels as set forth in the Contract Documents are exceeded immediately and automatically stop all work. Do not recommence work until authorized in writing by the Engineer.

B. Coordination

1. CONTRACTOR shall coordinate and schedule all phases of the Work with the ENGINEER, other contractors, material suppliers, and other parties as necessary to ensure the proper and timely execution of the Work.
2. Five days prior to the proposed start of Work at each separate location, CONTRACTOR shall request permission from ENGINEER to commence Work. No Work may proceed until written approval is provided by the ENGINEER.
3. In the event that the ENGINEER must enter the lead control area for reasons unrelated to the supervision of inspection of Work, CONTRACTOR shall stop lead based paint removal Work and immediately clean-up any loose debris, so as to permit safe entry by the ENGINEER. Lead paint removal Work shall not proceed until the ENGINEER has left the control area.
4. Meetings: CONTRACTOR shall schedule, organize and hold all meetings with appropriate parties as scheduled and as directed by the ENGINEER to accomplish the Work. Meetings shall include the pre-construction meeting specified herein and other meetings as necessary or as

requested by the OWNER and ENGINEER. Minutes of all meetings shall be recorded by the CONTRACTOR and copies shall be provided by CONTRACTOR to all parties attending.

C. General:

1. The CONTRACTOR shall seal off all critical areas such as doors, windows, openings and any other areas that may allow the escape of contaminants to the outside air. He shall erect decontamination facilities and provide all on-site personnel with all required protective equipment to ensure their health and safety.
2. The CONTRACTOR shall conduct comprehensive personal air monitoring of his on-site personnel, and shall dispose all lead based paint wastes and debris in a safe and approved manner.
3. The CONTRACTOR shall have full responsibility and liability for compliance with all applicable federal, state, and local government regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site, and persons occupying areas adjacent to the site.
4. CONTRACTOR shall be cognizant of handling materials containing or contaminated with lead based paint which may be encountered during removal and encapsulation operations, and the incidental procedures and equipment required to protect workers and occupants of the equipment, building area, or both, from contact with airborne lead based paint dust.
5. The disturbance or dislocation of lead based paint containing materials may cause lead based paint dust to be released into a building's atmosphere, thereby creating a potential health hazard to workmen and building occupants. The CONTRACTOR shall apprise all workers, supervisory personnel, subcontractors, and consultants may be at the job site of the seriousness of the hazard and of the proper work procedures that must be followed.
6. Where in the performance of the Work, workers, supervisory personnel, subcontractors, or consultants may encounter, disturb or otherwise function in the immediate vicinity of any identified lead based paint containing materials, the CONTRACTOR shall take appropriate continuous measures as necessary to protect all building occupants from the potential hazard of exposure to airborne lead based paint. Such measures shall include the procedures and methods described in these specifications, and compliance with regulations of applicable federal, state, and local government agencies.
7. CONTRACTOR shall be responsible for providing secure storage facilities.

D. INSURANCE:

1. The CONTRACTOR'S liability insurance in accordance to these Specifications shall specifically cover claims arising out of or relating to lead based paint abatement. Liability coverage for lead based paint abatement, whether expressly set forth in the policy or added by endorsement, shall be on an occurrence basis, and the City of Gardena will not consider coverage on a "claims made" basis.
2. The General Conditions shall apply and be incorporated into the liability coverage for lead based paint abatement; provided, however, that if any

provision(s) is/are manifestly inconsistent with the broadest possible coverage for lead based paint abatement, then such provision(s) only shall not apply. Specifically, without in any way limiting the foregoing, the lead based paint abatement coverage shall be in the same limits (amounts) and include the same additional insured.

3. The CONTRACTOR shall provide liability coverage for lead based paint abatement, as specified in this Section, through insurers authorized to transact business in the State and which have a "A" Best's rating and a Class VII or better financial size category according to the most current Best Company ratings, unless otherwise authorized by the OWNER.
4. The CONTRACTOR shall submit proof of coverage under the workmen's compensation laws of the State and shall disclose to the California State Compensation Fund or private workmen's compensation carrier, authorized to write such coverages, that the CONTRACTOR's employees and others for whom the CONTRACTOR may be responsible will be engaged in lead based paint abatement activities.
5. If the CONTRACTOR subcontracts all or part of the lead based paint abatement specified in this Section, the subcontractor(s) shall have all of the coverage specified in the General Conditions and this Section. For liability coverage for lead based paint abatement, the CONTRACTOR and subcontractor(s) may satisfy this requirement by adding the subcontractor(s) as additional named insured(s) on the CONTRACTOR's policy. However, the subcontractor(s) must comply separately with all other insurance requirements.

E. PERSONNEL

1. General Superintendent: Provide a full-time General Superintendent who is experience in administration and supervision of lead based paint abatement projects including work practices, protective measures for building and personnel, disposal procedures, etc. This person is the Contractor's representative responsible for compliance with all applicable federal, state and local regulations and guidelines, particularly those relating to lead based paint and hazardous waste.
2. Foreman: Provide a Foreman to directly supervise and direct no more than 10 abatement workers. Each Foreman will act as the Competent Person as required by 8 CCR 1532.1 for the workers the foreman is directing. The Foreman has oversight authority over the workers and reports to the General Superintendent may fill the foreman's position.
3. Experience and Training: The General Superintendent and foreman shall meet all the requirements as a Competent Person as required by OSHA 8 CCR 1532.1. They shall have completed training in Lead Paint Abatement Health and Safety for Supervisors and have obtained interim certification from the State Department of Health Services as a "supervisor". They shall have experience with projects of similar type and size.

F. DAILY LOG:

Maintain a daily log documenting the dates and time of but not limited to, the following items. Provide one (1) copy of this log to the Engineer on a daily basis:

1. Meetings, purpose, attendees, brief discussion and significant decisions.
2. Visitations; authorized and unauthorized

3. Log of those entering and leaving Work Area including personnel, by name
4. Accidents
5. Log of the waste as accumulated
6. Special or unusual events, i.e., barrier breaching, equipment failures, accidents
7. Documentation of Contractor's completion of the following:
 - a. Inspection of Work Area preparation prior to start of removal and daily thereafter.
 - b. Removal of any sheet plastic barriers
 - c. Any Contractor operation that will conceal the condition of lead based painted components or the substrate from which such materials have been removed.
 - d. Removal of waste materials from Work Area
 - e. All waste properly stored in approved and labeled containers
 - f. Decontamination of equipment (list items)
8. List of subcontractors at the site
9. Count of personnel at the site
10. High and low temperatures, general weather conditions.
11. Stoppages, delays, shortages, losses
12. Meter readings and similar recordings
13. Emergency procedures
14. Orders and requests of governing authorities
15. Change Orders received, implemented
16. Services connected, disconnected
17. Equipment or system tests and start-ups
18. Partial & substantial completions authorized

G. SPECIAL REPORTS

- A. General: Except as otherwise indicated, submit special reports directly to Engineer within one day of occurrence requiring special report and to others affected by occurrence.
- B. Reporting Unusual Events: When an event of unusual and significant nature occurs at site, within 24 hours prepare and submit a written special report to the Engineer listing chain of events, persons participating, response by Contractor's personnel, evaluation of results or effects, and similar pertinent information. When such events are known or predictable in advance, advise City in advance at earliest possible date.
- C. Reporting Accidents: Prepare and submit written reports of significant accidents, at site and anywhere else work is in progress. Reports must be submitted to the Engineer within 24 hours after the accident occurs. Record and document data and actions; comply with industry standards. For this purpose, a significant accident is defined to include events where personal injury is sustained, or property loss of substance is sustained, where the event posed a significant threat of loss or personal injury, or where an OSHA 200 Log is required. A copy of an OSHA 200 Log may be submitted for this purpose.
- D. Report Discovered Conditions: When an unusual condition of the tanks or piping is discovered during the work (e.g., leaks, corrosion) prepare and submit a written special report to the Engineer indicating condition discovered.

H. CONTINGENCY PLAN:

- A. Contingency Plan: Prepare a contingency plan for emergencies including fire, accident, power failure, hazardous substance releases, or any other event that may require modification or abridgement of decontamination or Work Area isolation procedures. Include in plan specific procedures for decontamination or Work Area isolation. Note that nothing in this specification should impede safe exiting or providing of adequate medical attention in the event of an emergency.
- B. Post: At entrance of Work Area. Telephone numbers and locations of emergency services including but not limited to fire, ambulance, doctor, hospital, police, power company, telephone company.
- C. Notify Engineer immediately of any releases of hazardous materials including chemical spills such as oil and fuels.
- D. Contractor shall send notifications out to all property owners that are contiguous to the work site. Engineer shall review and approve the notification prior to being sent out.

I. CODES, REGULATIONS, AND STANDARDS:

- 1. General Applicability of Codes and Regulations, Guidelines and Standards: Except to the extent that more explicit or more stringent requirements are written directly into the contract documents, all applicable codes, regulations, guidelines and standards have the same force and effect (and are made a part of the contract documents by reference) as if copied directly into the contract documents, or as if published copies are bound herewith.
- 2. Contractor Responsibility: The Contractor shall assume full responsibility and liability for the compliance with all applicable federal, state, and local regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site, and persons occupying areas adjacent to the site. The Contractor is responsible for providing medical examinations and maintaining medical records of personnel as required by the applicable federal, state, and local regulations. The Contractor shall hold the City and Engineer harmless for failure to comply with any applicable work, hauling, disposal, safety, health or other regulations on the part of himself, his employees, or his subcontractors.
- 3. Federal Requirements which govern lead based paint abatement work or hauling and disposal of hazardous waste materials include but are not limited to the following:
 - a. OSHA: U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA), including but not limited to:

29 CFR 1910.134	Respiratory Protection
29 CFR 1926.20	General safety and health provisions
29 CFR 1926.21	Safety training and education
29 CFR 1926.23	First Aid
29 CFR 1926.24	Fire Protection
29 CFR 1926.25	Housekeeping
29 CFR 1926.28	Personal protective equipment
29 CFR 1926.51(f)	Washing facilities
29 CFR 1926.55	Gases, vapors, fumes, dusts, and mists

29 CFR 1926.56	Illumination
29 CFR 1926.57	Ventilation
29 CFR 1926.59	Hazard Communication Standard;
29 CFR 1926.62	Lead Construction Standard
29 CFR 1926.103	Respiratory Protection
29 CFR 1926.353	Ventilation: Welding, cutting or heating of metals of toxic significance
29 CFR 1926.300, 301, 302	Hand and power tools
29 CFR 1926.451	Scaffolding
29 CFR 1926.500 502, 503	Fall Protection

b. DOT: U.S. Department of Transportation, including but not limited to:

49 CFR 171 through 179 Hazardous Substances

c. EPA: U.S. Environmental Protection Agency (EPA), including but not limited to:

40 CFR 260, 261, Resource Conservation and Recovery Act (RCRA)

262, 263 and 264

40 CFR 745 Lead Based Paint Activities: Training, Certification, and Work Practice Requirements

d. HUD: Department of Housing and Urban Development

24 CFR 35, 905 Lead Based Paint Hazard Elimination; Interim Rule 941, 965, and 968

4. California State Requirements which govern lead based paint abatement work or hauling and disposal of hazardous waste materials include but are not limited to

8 CCR 5144	Respiratory Protection
8 CCR 1509	General safety and health provisions
8 CCR 1510	Safety training and education
8 CCR 1512	First Aid
8 CCR 1513	Housekeeping
8 CCR 1514	Personal protective equipment
8 CCR 1527	Washing facilities
8 CCR 1528	Gases, vapors, fumes, dusts, and mists
8 CCR 1523	Illumination
8 CCR 1530	Ventilation
8 CCR 5194	Hazard Communication Standard
8 CCR 1532.1	Lead Construction Standard
8 CCR 1531	Respiratory protection
8 CCR 1530	Ventilation: Welding, cutting or heating of metals of toxic significance
8 CCR 1707	Hand and power tools
8 CCR 1637	Scaffolding & Fall Protection
117 CCR DIV 1 CH.8	Accreditation of Interim Certification of individuals engaged in lead related construction work
22 CCR Div 4.5	Management of Hazardous Waste
	Health & Safety Code, Hazardous Waste Control Law

Div 20, Chapter 6.5

5. Local Requirements: Abide by all local requirements which govern lead abatement work or hauling and disposal of hazardous waste materials.
6. Building Codes: Comply with applicable provision of state and/or local building and construction codes that govern any part of the work.
7. Model Codes: In the absence of an applicable adopted state or local building code which governs work involved in the lead abatement project, comply with the applicable provisions of the BOCA National Codes/1993 published by International Conference for Building Officials or the SBCCI Standard Codes published by Southern Building Code Congress International.

J. PERMITS

1. Permit: All hazardous waste is to be transported by an entity maintaining a current licensed State of California Hazardous Waste permit as required for transporting of waste materials to a disposal or incineration site.
2. Building Permit: Secure all necessary building and demolition permits as required by state and/or local building codes.
3. Air Pollution Control Permits: For required abrasive blasting equipment, generators, and other regulated equipment.

K. STANDARDS

1. Applicability of Standards: Except where the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.
2. Publication Dates: Comply with the standards in effect as of the date of the Contract Documents
3. Conflicting Requirements: Where compliance with 2 or more standards is specified and where the standards may establish different or conflicting requirements for minimum quantities or quality levels, refer requirements that are different but apparently equal and uncertainties to the Engineer for a decision before proceeding.
 - a. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of the requirements. Refer uncertainties to the City Representative for a decision before proceeding.
4. Copies of Standards: Each entity engaged in construction on the Project is required to be familiar with industry standards applicable to its construction activity. Copies of applicable standards are not bound with the Contract Documents.
 - a. Where copies of standards are needed to perform a required construction activity, the Contractor shall obtain copies directly from the publication source.
5. Abbreviations and Names: Trade association names and titles of general standards are frequently abbreviated. Where such acronyms or abbreviations are used in the Specification or other Contract Documents,

they mean the recognized name of the trade association, standards-generating organization, authority having jurisdiction, or other entity applicable to the context of the text provision. Refer to the “Encyclopedia of Associations”, published by Gale Research Co., available in most libraries.

6. Abbreviations and Names: Trade association names and titles of general standards are frequently abbreviated. the following acronyms or abbreviations, as referenced in Contract Documents, are defined to mean the associated names. Names and addresses are subject to change and are believed, but not assured, to be accurate and up-to-date as of date of the Contract Documents.

ALA	American Association for Laboratory Accreditation 656 Quince Orchard Road #300 Gaithersburg, MD 20878	(301) 670-1377
AIA	The American Institute of Architects New York Ave. NW Washington, DC 20006	(202) 626-7300
AIHA	American Industrial Hygiene Assoc. 2700 Prosperity Avenue, Ste. 250 Fairfax, VA 22031-4307	(703) 849-8888
ANSI	American National Standards Institute 11 West 42 nd St., 13 th Floor New York, NY 10036	(212) 642-4900
ASTM	American Society for Testing and Materials 1916 Race St. Philadelphia, PA 19103-1187	(215) 299-5400
GA	Gypsum Association 810 First St. NE, Ste. 510 Washington, DC 20002	(202) 289-5440
IESNA	Illuminating Engineering Society of North America 345 E. 47 th St. New York, NY 10017	(212) 705-7926
ML/SFA	Metal Lath/Steel Framing Asso. (A Division of the National Association of Architectural Metal Manufacturers) 600 S. Federal St., Ste. 400 Chicago, IL 60605	(312) 922-6222
NEC NEMA	National Electrical Code (from NFPA) National Electrical Manufacturers Asso. 2101 L St., NW, Ste. 300 Washington, DC 20037	(202) 457-8400
NFPA	National Fire Protection Asso. One Batterymarch Park P.O. Box 130140 Ann Arbor, MI 48113-0140	(800) 344-3555 (617) 770-3000

NSF	National Sanitation Foundation 3475 Plymouth Road P.O. Box 130140 Ann Arbor, MI 48113-0140	(800) 344-3555 (313) 769-8010
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PDCA	Painting and Decorating Contractors of America 3913 Old Lee Highway Ste. 33-B Fairfax, VA 22030	(703) 359-0826
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UL	Underwriters Laboratories 333 Pfingsten Rd. Northbrook, IL 60062	(708) 272-8800
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Federal Government Agencies: Names and titles of federal government standard or Specification-producing agencies are often abbreviated. The following acronyms or abbreviations referenced in the Contract Documents indicate names of standard or Specification-producing agencies of the federal government. Names and addresses are subject to change and are believed, but are not assured, to be accurate and up-to-date as of the date of the Contract Documents.

CFR	Code of Federal Regulations (Available from the Government Printing Office) N. Capitol St. between G and H St. NW Washington, DC 20402 (Material is usually first published in the "Federal Register")	(202) 783-3238
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CCR	California Code of Regulations (Available from Barclays Law Publishers) 400 Oyster Point Blvd P.O. Box 3066 South San Francisco, CA 94080	(415) 244-6611
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CPSC	Consumer Product Safety Commission 5401 Westbard Ave. Bethesda, MD 20207	(800) 638-2772
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DTSC	Department of Toxic Substances Council Region 4 245 W. Broadway, Ste. 350 Long Beach, CA 90802	(310) 590-4868
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EPA	Environmental Protection Agency 401 M St. SW Washington, DC 20460	(202) 382-2090
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HUD	Department of Housing and Urban Development Office of Lead-Based Paint Abatement and Poisoning Prevention Room B-133 451 7 th St. SW Washington, D.C. 20410	(202) 755-1805
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MSHA	Mine Safety and Health Administration (U.S. Department of Commerce) 4015 Wilson Blvd Arlington, VA 22203	(703) 235-1565
NIOSH	National Institute of Occupational Safety and Health U.S. Dept. of Labor, Room N-3718 200 Constitution Ave., N.W. Washington, D.C. 20210	(800) 35-NIOSH
NIST	National Institute of Standards & Technology (U.S. Department of Commerce) Gaithersburg, MD 20899	(301) 975-2000
OSHA	Occupational Safety and Health Administration (U.S. Department of Labor) 200 Constitution Ave., NW Washington, DC 20210	(202) 219-6091

L. MISCELLANEOUS SUBMITTALS

- A. Material Safety Data Sheets: Acknowledge compilation of all the material safety data sheets for the products to be used at the job site.
- B. Inspection and Test Reports: Classify each inspection and test report as being either “shop drawings” or “product data” depending on whether the report is specially prepared for the project, or a standard publication of workmanship control testing at the point of production. Process inspection and test reports accordingly.
- C. Records of Actual Work: Furnish 4 copies of records of actual work, one of which will be returned for inclusion in the record documents as specified in Section “Project Closeout”.
- D. Closeout Submittals: Refer to Section “Project Closeout” and to individual Sections of these specifications for specific submittal requirements of project closeout information.

ASBESTOS ABATEMENT AND ASBESTOS RELATED DISTURBANCE

PART 1 – GENERAL

1.1 SCOPE OF WORK

- A. These specifications cover the handling and removal of the asbestos-containing materials (ACM), lead-based paint (LBP), and lead containing paint (LCP) for the Gardena Community Aquatics & Senior Center – Demolition Phase in Gardena, California. Based on the results of CEC’s report titled “Pre-Demolition Asbestos and Lead in Paint Survey” Project Number 19-CGAR.01, dated January 10, 2020.

1.2 SUMMARY

- A. Related Requirements:
 - 1. Section 02 83 33 – Lead Related Construction Work.

2. Division 01 - General Requirements.
3. U.S. Environmental Protection Agency Regulations for Asbestos (Title 40, Code of Federal Regulations, Part 61, Subparts A and B, and Part 763, Subpart E.)
4. Title 8, Article 4, California Code of Regulations Construction Industry Safety Orders, Section 1529 "Asbestos" or current revised California regulations.

1.3 DEFINITIONS AND ACRONYMS

- A. Abatement – Procedures to control fiber release from asbestos-containing material (ACM) or asbestos-containing construction material (ACCM). Includes removal, encapsulation, enclosures, repair, demolition, and renovation activities but does not include asbestos-related disturbance.
- A. AHERA - Asbestos Hazard Emergency Response Act, 40 CFR, Part 763, Subpart E, and subsequent amendments.
- B. Air Filtration and Ventilation System - A portable exhaust system, equipped with HEPA filtration, and capable of maintaining a constant air flow into a regulated area from adjacent areas and exhausted outside the Regulated Area.
- C. Amended Water - Water to which a surfactant (wetting agent) has been added.
- D. ANSI - American National Standards Institute.
- E. Asbestos - Means the asbestiform varieties of chrysotile (Serpentine); crocidolite (Riebeckite); amosite (cummingtonite); anthophyllite; tremolite; and actinolite.
- F. Asbestos-Containing Construction Material (ACCM) – Means any manufactured construction material which contains more than one tenth of one percent (0.1 percent) Asbestos by weight.
- G. Asbestos-Containing Material (ACM) – Means any material containing more than one-percent (1 percent) Asbestos.
- H. Asbestos-Containing Waste (Non-hazardous) – non-friable asbestos-containing material including, but not limited to, floor covering, roofing materials and cementitious materials requiring disposal.
- I. Asbestos-Containing Waste (Hazardous) – friable asbestos-containing materials and asbestos contaminated objects and debris requiring disposal.
- J. Asbestos Related Disturbance – is the drilling, coring, removal or similar disturbance of ACCM or ACM not to exceed three square feet in any one opening and not to disturb 100 square feet or greater cumulatively on any one project (contract).
- K. ASTM - American Society for Testing and Materials.
- L. Bulk Samples - Samples of building or other materials collected for analysis to determine the presence and quantities of asbestos.
- M. CDCR – The California Department of Corrections and Rehabilitation, owner and operator of the project site, and CDCR's designated representative.

- N. Class I, II, III, and IV asbestos work has the meaning as defined in California Code of Regulations Title 8, Section 1529.
- O. Clean Room - An uncontaminated area or room, which is a part of the worker Decontamination Enclosure System with provisions for storage of worker's street clothes and clean protective equipment.
- P. Competent Person - Has the same meaning as defined in the California Code of Regulations Title 8, as it relates to, "Competent Person."
- Q. Controlled Disturbance – An activity by which a contractor disturbs an asbestos-containing material or an asbestos containing construction material using the work practices allowed for in this specification and in compliance with regulatory limitations.
- R. Curtained Doorway – A device to allow ingress and egress from one room to another while permitting minimal air movement between the rooms, typically constructed by placing two overlapping sheets of plastic over an exit or temporarily framed doorway, securing each along the top of the doorway, securing the vertical edge of one sheet along one vertical side of the doorway and securing the vertical edge of the other sheet along the opposite vertical side of the doorway. Other effective designs may be submitted for review.
- S. Decontamination – The process of eliminating Asbestos contamination from building surfaces, objects, and property, by cloths, mops, or other utensils dampened with water and disposed of afterwards as asbestos contaminated waste.
- T. Decontamination Enclosure System – Means an enclosed area, which is adjacent and connected to the regulated area, consisting of an equipment room, shower room, and clean room for the decontamination of workers, materials, and equipment contaminated with Asbestos.
- U. DOSH - Division of Occupational Safety & Health or Cal/OSHA.
- V. DOT – Department of Transportation.
- W. DTSC – Department of Toxic Substances Control.
- X. Encapsulating Material - A liquid material applied to asbestos-containing materials which controls the possible release of asbestos fibers from the material either by creating a membrane over the surface (bridging agent) or by penetrating into the material and binding its components together (penetrating Encapsulating Material).
- Y. Encapsulation - The application of an encapsulating material to asbestos-containing materials to prevent the release of asbestos fibers into the air.
- Z. Equipment Room - A room within the worker decontamination enclosure system with provisions for storage of used clothing and equipment and for controlled transfer of materials and equipment into and out of the regulated area.
- AA. Facility Component – Means any part of a facility including equipment.
- BB. Fixed Object - A piece of equipment, furniture, or improvement in the Work area, which cannot be removed from the work area.

- CC. Friable Asbestos – asbestos-containing material which, when dry, can be crumbled, pulverized or reduced to a powder by hand pressure or as defined by current regulations.
- DD. Hazardous Waste - Means friable asbestos generated and prepared for waste disposal. Does not include non-friable material or materials containing one-percent or less of asbestos as determined by PLM and/or the point counting method.
- EE. HEPA Filter - Means a filtering system capable of trapping and retaining at least 99.97 percent of mono-dispersed particles 0.3 microns in diameter or larger. For respirators this shall include NIOSH rated P-100 cartridges only.
- FF. HEPA Vacuum - A vacuum system furnished with HEPA filtration.
- GG. HVAC – Heating, Ventilation, and Air Conditioning System.
- HH. Lockdown Coat – A material applied to surfaces where Asbestos has been completely removed. The manufacturer shall determine the concentration of this material.
- II. Member – A component part of a structure complete in itself.
- JJ. Movable Object - A portable piece of equipment or furniture in the Work area, which can be removed from the work area.
- KK. NESHAP - National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61).
- LL. NIOSH - National Institute for Occupational Safety and Health.
- MM. Outside Air - Air outside of buildings and structures.
- NN. Owner Consultant (OC) - Refers to the firm, company or individual designated by the Owner.
- OO. PCM - Phase Contrast Microscopy as it relates to clearance air, personnel exposure assessment, and ambient air monitoring. This procedure must follow the NIOSH Method 7400, Asbestos Fibers by PCM.
- PP. PLM - Polarized Light Microscopy used for bulk sample analysis with dispersion staining for the determination and quantifying of Asbestos in Bulk Samples building materials.
- QQ. Regulated Area - Designated rooms, spaces or areas of the Project in which asbestos abatement actions are to be performed or which may become contaminated as a result of abatement activities. A contained Work area is a work area, which has been sealed and furnished with a decontamination enclosure system. A non-contained work area is an isolated or controlled access work area, which has not been sealed or furnished with a decontamination enclosure system.
- RR. Removal – Means operations where ACM and/or PACM is removed or stripped from structures or substrates including demolition.
- SS. Renovation – Means the modifying of any existing structure, facility, or portion thereof.

- TT. Shower Room - A room between the clean room and the equipment room in the worker decontamination enclosure system furnished with hot and cold running water controllable at the tap, and suitably arranged for complete showering during decontamination.
- UU. San Joaquin Valley Air Pollution Control District
- VV. Staging Area - Areas near the waste transfer airlock where containerized asbestos waste is temporarily placed prior to permanent removal from the work area.
- WW. Surfactant - A chemical wetting agent added to water.
- XX. TEM - Transmission Electron Microscopy as defined for asbestos clearance air monitoring within AHERA. This procedure must follow the NIOSH Method 7402, Asbestos Fibers by TEM.
- YY. TSI - Thermal System Insulation as defined in AHERA.
- ZZ. USEPA or EPA – United States Environmental Protection Agency.
- AAA. Visible Emissions - Any emissions from a known or suspected asbestos-containing material that is visually discernible.
- BBB. Waste Transfer Airlock - A decontamination system provided for transferring containerized waste from inside to outside of the work area.

1.4 POLICIES AND PROCEDURES

- A. The California Department of Corrections and Rehabilitation (Owner) has a zero tolerance policy for uncontrolled asbestos releases during construction or Abatement Work. An Asbestos release requiring an emergency response is any uncontrolled release of Asbestos Containing Construction Materials. The Owner shall be immediately notified of such uncontrolled releases.
- B. Pre-qualified asbestos abatement subcontractors are not permitted to subcontract any abatement work to a lower tier Subcontractor without the prior written approval of the Owner.

1.5 ROLES AND RESPONSIBILITIES

A. Roles and Functions:

1. Coordinate the work of this section directly with the Owner and/or Owner Consultant.
2. Work under this section shall be performed in strict accordance with applicable Federal, State, and Local regulations, standards, and codes governing asbestos abatement and any other work performed in conjunction with the asbestos abatement work.
3. The most recent edition of any relevant regulation, standard, document, or code is in effect. Where conflict among the requirements or with this Specification exists, the most stringent requirement shall be provided.

1.6 SITE SECURITY

- A. The work area shall be restricted to authorized, trained, and protected personnel. A list of authorized personnel shall be established by the Owner Consultant prior to commencement of the work and posted at the entrance of the regulated area. Authorized personnel accessing the work area shall be subject to the worksite's gate clearance protocols.
- B. Report to the Owner Consultant any unauthorized entry into the regulated area. Following notification, a written report of the incident shall be provided to the Owner Consultant.
- C. A logbook shall be maintained at the entrance of the regulated area. Persons entering the regulated area shall record their name, company affiliation, time in, and time out for each entry and exit.
- D. Access to the contained area shall be through the worker decontamination enclosure system or other room established when worker decontamination enclosure system is not required. Other means of access shall be blocked or locked to prevent entry to or exit from the regulated area. The only exceptions are the waste pass-out airlock, which shall be sealed except during the removal of containerized asbestos waste from the work area, and emergency exits in case of fire or accident. Emergency exits shall be operable from inside the work area; however they shall be sealed with polyethylene sheeting and tape.
- E. Unless otherwise specified, remove barriers upon completion of the work of this section. Repair and/or replace to original condition, damage resulting from installation, use, and removal of the barriers.

1.7 EMERGENCY PLANNING

- A. Emergency planning and procedures shall be developed, submitted, reviewed, and agreed to by the Owner prior to the commencement of abatement work.
- B. Emergency procedures shall be provided in the written languages understood by employees working on the Project and shall be prominently posted at the entrance of the decontamination enclosure system. Prior to entering the work area, parties must read and sign these procedures to acknowledge receipt and understanding of the work site layout, location of emergency exits, and emergency procedures.
- C. Emergency planning shall consider the effects of fire, explosion, toxic atmospheres, electrical hazards, slips, trips and falls, confined spaces, and heat related injury. Develop and provide written procedures and training to employees.
- D. Employees shall be trained in evacuation procedures in the event of workplace emergencies.
- E. In the event of non-life threatening situations requiring medical treatment, injured or otherwise incapacitated employees shall decontaminate following normal procedures with assistance from fellow workers if necessary, before exiting the Work area.

- F. In the event of life threatening injury or illness requiring immediate medical treatment, worker decontamination shall be given minimum priority. Provide measures to stabilize the injured worker, remove them from the work area, and secure proper medical treatment.
- G. Telephone numbers of emergency response personnel shall be prominently posted at the entrance of the decontamination enclosure system along with the location of the nearest telephone. In addition to the 911 emergency number, post the address and telephone number of the nearest emergency medical services provider.
- H. Provide at least one employee on the project site at times during progress of abatement work that is trained and certified in first aid and cardiopulmonary resuscitation (CPR). This employee shall be identified by name and proof of training shall be provided to the Owner Consultant prior to the commencement of the work of this section.
- I. Emergency exits shall be provided and clearly marked with arrows or other clearly visible markings to permit easy identification from anywhere within the work area. Exits shall be secured to prevent access from uncontaminated areas while still permitting emergency egress. Exits shall be properly sealed with polyethylene sheeting, which can be cut to permit emergency egress. Emergency exits may lead through the worker decontamination enclosure, the waste removal airlock or other alternative exits as required by fire officials.
- J. Provide at least one ABC dry chemical extinguisher in the decontamination compartment. Workers shall be trained in the proper operation of fire extinguishers.

1.8 LICENSING

- A. The work of this section shall be performed by an entity duly licensed in the State of California in accordance with the provisions of Chapter 9 of Division 3 of the Business and Professions Code, as amended. The abatement work of this section shall be performed by an entity holding a license with an "ABS" asbestos certification as issued by the Contractors State License Board.
- B. The entity performing the Work of this section, other than asbestos-related disturbance involving less than 100 square feet shall be registered with the Department of Industrial Relations in accordance with the provisions of Section 6501.5 of the California Labor Code.

1.9 ASBESTOS RELATED REQUIREMENTS

A. Qualifications:

- 1. Comply with the provisions of the California Labor Code, Division 5, Part 1, as it pertains to safety in employment and the applicable provisions of Title 8, Chapter 4, Subchapters 1 through 21, California Code of Regulations (CCR) as it pertains to Occupational Safety and Health, and Subchapter 7, Section 5208 Article 4, and Section 1529, asbestos regulations.
- 2. Comply with the provisions of Section 02 83 33 Lead Related Construction Work for all work impacting the lead based paint and lead containing materials.

B. Abatement Activities:

1. The asbestos abatement work shall be performed by persons who comply with applicable Federal, State, and local regulations including AHERA certified training.
2. Supply labor, materials, services, insurance, permits, and equipment necessary to perform the work in accordance with applicable Federal, State, and Local regulations and this Specification.
3. Submit weekly job progress reports detailing Abatement activities for projects with schedules that exceed thirty days of abatement work. Include review of progress with respect to previously established Milestones and schedules, major problems and action taken, injury reports, equipment breakdown, and air sampling results.
4. Within five workdays of transport and/or disposal, submit copies of transport manifests, disposal receipts, and weight certificates for asbestos waste removed from the Work area during the Abatement process. Weight certificates shall indicate in pounds the net weight of waste disposed from the project site as indicated on the manifest.
5. Submit logs on a weekly basis documenting filter changes on respirators, HEPA Vacuums, HEPA Filtered ventilation units, water filtration units, and other approved engineering controls.
6. Where decontamination enclosure system is required, post at the entrance a list containing the names, addresses, and telephone numbers of the entity performing the work of this section, designated Competent Person, the Owner and/or Owner Consultant, the testing laboratory and any other personnel who may be required to access the work area or perform services during the abatement work.
7. Within five workdays the abatement contractor shall post all personal air sampling results in a location that is accessible to the workers.

C. Asbestos Related Disturbance:

1. The asbestos-related disturbance work shall be performed by persons who comply with applicable Federal, State, and local regulations including AHERA certified training.
2. Within five workdays of transport and/or disposal of asbestos-containing waste, submit copies of transport manifests and/or disposal receipts.

1.10 PRE-ABATEMENT SUBMITTALS

- A. Prior to commencement of the asbestos abatement work of this section, submit the following notices, documentation, Shop Drawings, and Product Data:
 1. For Projects involving asbestos-containing materials 100 square feet or more, provide a typed written notification in accordance with the San Joaquin Valley Air Pollution Control District and 40 CFR Part 61.146 of Subpart M, and to and in accordance with the Division of Occupational Safety and Health prior to start of the Work.
 2. Submit to the Owner, satisfactory proof the required permits, site location, and arrangements for transport and disposal of asbestos-containing waste materials have been completed in accordance with California Health and Safety Code,

Section 25143.7. Obtain and submit a copy of handling procedures and a list of protective equipment utilized for asbestos disposal at the landfill.

3. Submit to the Owner satisfactory documentation that employees, including foremen, supervisors, and any other company personnel or agents who may be exposed to airborne asbestos fibers or who may be responsible for any aspects of asbestos abatement work or asbestos-related disturbance have received adequate training that includes, at a minimum, information as described within this section and as required by AHERA.
 4. Prior to commencement of abatement work, personnel required to construct and enter the work area or handle containerized asbestos-containing materials shall have received adequate training, in accordance with the requirements of this Specification and by 40 CFR, Part 763, Subpart E (AHERA) and Title 8, Section 1529, of the California Code of Regulations applies.
 5. Submit documentation from a physician certifying that employees are medically monitored and are physically capable of working while wearing the required respiratory protection without suffering adverse health effects as required by California D.O.S.H regulations. Where such documentation is required, the certification shall state that the employee or agent is approved to work with asbestos and wear a respiratory protection without restrictions. Provide information to the examining physician about unusual conditions in the workplace environment that may impact on the employee's ability to perform abatement work activities.
 6. Submit shop drawings for layout and construction of decontamination enclosure systems and barriers for isolation of the contained asbestos abatement work area as detailed in this Specification and required by applicable regulations.
 7. When used, submit manufacturer's certification that HEPA Vacuums, air filtration units, and other local exhaust ventilation equipment complies with ANSI Z9.2.
 8. Submit Product Data verifying that air filtration devices (i.e., air filtration units and vacuums) for use on this project have been registered or certified, as applicable, in compliance with the San Joaquin Valley Air Pollution Control District Rules.
 9. Document NIOSH approvals for respiratory protective devices furnished as required by the work. Include manufacturer certification of HEPA filtration capabilities for cartridges and filters.
 10. Submit documentation of respirator fit testing for employees and agents entering the abatement work area or areas where respiratory protection is required. This fit testing shall be performed in accordance with DOSH regulations.
 11. Submit a Sample of forms to be used in documenting required items to be submitted and/or reviewed.
 12. Submit SDS for all chemical products used.
- B. Provide other required submittals specified as part of the work of this section.

1.11 PRE-ABATEMENT MEETING

- A. A pre-abatement meeting shall be held prior to the commencement of abatement work. Attending this meeting shall be representatives of the Owner, the Owner Consultant if applicable, and the testing/monitoring personnel who shall actually participate in the testing/monitoring program. Secure the attendance of the individual who will be the project site competent person for the abatement work.

- B. Included in the general preconstruction meeting will be a discussion of requirements and submittals for asbestos-related disturbance, where such applies.
- C. At this meeting provide required submittals except for those to be submitted during progress of the work. In addition, provide detailed information concerning:
 - 1. Preparation of work area and shop drawings. (Abatement Only).
 - 2. Personal protective equipment, including respiratory protection and protective clothing. (Abatement, and Asbestos Related Disturbance if required).
 - 3. Employees who will participate in the Project, including delineation of experience, training, and assigned responsibilities during the Work. (Abatement and Asbestos Related Disturbance).
 - 4. Decontamination procedures for personnel, Work area, and equipment. (Abatement and Asbestos Related Disturbance).
 - 5. Abatement methods and procedures to be provided. (Abatement Only).
 - 6. Required air monitoring procedures (pre-Abatement and NESHAP requirement (Abatement Only), and Cal/OSHA mandatory (Abatement and Asbestos Related Disturbance)).
 - 7. Procedures for handling and disposing of waste materials, including disposal facility. (Abatement and Asbestos Related Disturbance).
 - 8. Procedures for final decontamination and cleanup. (Abatement Only).
 - 9. A sequence of work activities and performance schedule. (Abatement Only).
 - 10. Procedures for dealing with heat stress. (Abatement Only).
 - 11. Emergency procedures. (Abatement Only).

1.12 CLOSE OUT DOCUMENTATION

- A. Provide the following close out documentation:
 - 1. Filter change logs for air filtration units, water filtration units and respirators. (Abatement Only).
 - 2. Foreman's daily job reports. (Abatement Only).
 - 3. Employee entry/exit logs for containment. (Abatement Only).
 - 4. Visitor entry/exit logs for containment. (Abatement Only).
 - 5. Manometer printout reports for applicable containment. (Abatement Only).
 - 6. Air sample results for personnel (Abatement and Asbestos Related Disturbance).
 - 7. Air Samples for abatement work areas and air filtration units. (Abatement Only).
 - 8. Copies of hazardous and non-hazardous waste manifests. (Abatement and Asbestos Related Disturbance).
 - 9. Hazardous waste weight tickets. (Abatement Only).
 - 10. Signed daily personnel report forms. (Abatement Only).
 - 11. Signed asbestos abatement project personnel logs. (Abatement Only).

- B. Receipt of the last workday attendance log and the daily personal monitoring results shall be submitted within two days upon completion of the abatement work of this section.

PART 2 – PRODUCTS

2.1 Materials and Equipment:

A. Materials

1. General:

- a. Damaged, deteriorating or previously used materials shall not be furnished and shall be removed from the project site and legally disposed of.
- b. A sufficient supply of disposable mops, rags, and sponges for abatement work area decontamination shall be provided by the abatement contractor.
- c. Unless otherwise specified, the Owner will provide water and power for construction purposes. Connect to existing system as required.

2. Asbestos Related:

- a. Plastic, polyethylene sheeting or visqueen shall be a fire retardant type. Provide documentation from the manufacturer verifying compliance with this requirement.
- b. Where a contained work area is required for abatement work, a minimum of two layers of 4-mil polyethylene sheeting shall be installed for walls. For floors and other installations, polyethylene sheeting of at least 6-mil thickness shall be furnished in sufficient widths to minimize the frequency of joints.
- c. Method of attaching polyethylene sheeting shall be reviewed prior to installation and/or commencement of abatement work. Method of attaching polyethylene sheeting shall not cause damage to equipment, finish surfaces, or other property.
- d. Polyethylene sheeting furnished for the decontamination enclosure system shall be opaque white or black in color and shall be a minimum of 6-mil thick.
- e. Disposal bags shall be of 6-mil polyethylene, with the outer bag pre-printed with labels as required by San Joaquin Valley Air Pollution Control District and applicable Cal/OSHA and DOT requirements at a minimum.
- f. Apply labels as per San Joaquin Valley Air Pollution Control District, Cal/OSHA, and DOT requirements for disposal containers.
- g. Provide warning signs as required by CAL/OSHA.
- h. Surfactant (wetting agent) shall be a material that, when tested, demonstrates a surface tension of 29 dynes/cm as tested in its properly mixed concentration, using ASTM method D1331 - Surface and Interfacial Tension of Solutions of Surface Active Agents. Where work area temperature may cause freezing of the amended water solution, the addition of approved antifreeze in a manufacturer recommended amount is permitted.

B. Equipment

1. General:

- a. Equipment delivered to the project site shall be free of asbestos and/or fibrous debris. No equipment with asbestos and/or fibrous debris in or on it is permitted on Owner properties.
- b. Provide sufficient lighting to illuminate the Work area for safe visual working conditions and to clearly examine surfaces.
- c. Provide a sufficient supply of scaffolds, ladders, lifts, and hand tools that meet applicable Federal, State, and local regulations.

2. Asbestos Related:

- a. A sufficient quantity of air filtration ventilation units furnished with HEPA filtration and operated in accordance with ANSI Z9.2-79 and EPA guidance documents shall be furnished to provide one workplace air change every 15 minutes creating -0.02 column inches of water pressure differential everywhere within the contained area when compared to the pressure outside the area. For small enclosures and glove bags, a HEPA Filtered vacuum system may be furnished to provide the pressure differential. A log documenting the filter change history of each unit is required before use. Any unit without this log shall have filters changed and the unit decontaminated.
- b. Provide a printable manometer for determining and recording the pressure differential within the isolated work area as compared with the ambient environment. A printed record is required for the duration of the project. The manometer shall operate 24 hours per day with a printed differential reading not to exceed fifteen minute intervals.
- c. Provide sprayers with pumps in a quantity capable of providing amended water in sufficient quantities to adequately wet materials during asbestos abatement activities. Provide spray bottles or adequate equipment necessary to keep materials impacted by asbestos-related disturbance adequately wet.
- d. Non-skid footwear shall be worn by abatement workers. Disposable clothing shall be adequately sealed to the footwear to prevent body contamination.
- e. Provide other required safety equipment to workers and authorized visitors.
- f. When roll-off disposal containers are delivered to a project site, four wheels of each container shall be moved and rested upon a sheet of plywood no smaller than four-foot by four-foot by $\frac{3}{4}$ inch minimum.

2.2 EMPLOYEE PERSONAL PROTECTIVE EQUIPMENT

A. Respiratory Protection:

- 1. Where respirators are required these shall be provided for protection from particulate contaminants as required by the National Institute of Occupational Safety and Health.
- 2. The respirators provided shall furnish a protection factor as required by CCR Title 8, Section 1529 for the fiber concentration in the work area. When powered air purifying respirators are provided, a sufficient supply of charged replacement batteries, filters, and a flow test meter shall be provided in the Clean Room area. Air purifying respirators with dual HEPA Filters may be provided during Work area preparation activities.

B. Fit Testing:

1. Workers must perform positive and negative air pressure fit tests each time a respirator is donned, whenever the respirator design so permits. Powered air purifying respirators shall be tested for adequate flow as specified by the manufacturer.
2. Workers shall be undergo a qualitative fit test in accordance with procedures detailed in the D.O.S.H. requirements for respirators provided to comply with the requirements of this Project. An appropriately administered quantitative fit test may be substituted for the qualitative fit test.
3. Where respirators are required, documentation of adequate respirator fit must be provided to the Owner Consultant.
4. No one wearing a beard shall be permitted to don a respirator and enter the work area.

C. Protective Clothing:

1. Where protective clothing is required, full body disposable protective clothing, including head, body, and foot coverings, shall be provided to workers and authorized visitors in sizes adequate to accommodate movement without tearing.
2. Disposable clothing including head, foot, and full body protection shall be provided in sufficient quantities and adequate sizes for workers and authorized visitors.
3. A new suit shall be donned upon each entry to the Abatement Work area or area where the permissible exposure level will be exceeded.
4. Hard hats, protective eye wear, gloves, rubber boots and/or other footwear shall be provided as required for workers and authorized visitors. Safety shoes may be required and shall be provided.

PART 3 – EXECUTION

3.1 ABATEMENT PROCEDURES AND WORK AREA PREPARATION

A. Work Area Preparation

1. For Class I and II asbestos work, shut down and lock out heating, cooling and air conditioning system (HVAC) components that are located in, supply, or pass through the work area. Seal intakes and exhaust vents in the work area with tape and 6-mil polyethylene. Seal seams in any system components that pass through the Work area.
2. Provide and post signs at locations and approaches to the regulated area. The signs shall comply with Cal/OSHA regulations.
3. In conjunction with the Owner, shut down and lock out/tag out electric power to Class I and II asbestos work areas. Provide equipment for temporary power with ground fault interrupters and lighting sources. Temporary power sources and equipment shall comply with applicable electrical code requirements and Cal/OSHA requirements for temporary electrical systems. The Owner shall perform electrical connections of electrical cable and equipment provided as part of the work of this section to existing Owner systems. The Owner shall pay for

the costs of electric power consumed during performance of the work of this section, unless otherwise noted.

4. For Class I and II asbestos work, clean and seal off windows, doorways, corridor entrances, drains, ducts, grills, grates, diffusers, skylights, and any other openings between the abatement work area and areas outside of the abatement work area with 6-mil polyethylene sheeting and tape prior to proceeding with required cleaning.
5. Clean movable objects within the abatement work area with a HEPA Filtered vacuum and wet cleaning methods. After cleaning, these objects shall be removed from the abatement work area and carefully stored in a location designated by the Owner.
6. Clean fixed objects in the abatement work area with a HEPA Filtered vacuums and wet cleaning methods. Careful attention shall be given to machinery behind grills or gratings where access may be difficult but contamination is present. Cleaning of walls, floors, and ceilings behind fixed items is required. After cleaning, enclose fixed objects in 6-mil polyethylene sheeting and seal securely in place with durable tape.
7. Clean surfaces in the abatement work area with a HEPA Filtered vacuums and wet cleaning methods. Do not utilize any methods, such as dry sweeping or vacuuming, with equipment not furnished with HEPA Filters thereby creating airborne dust and particulates. Do not disturb asbestos-containing materials during this cleaning phase.
8. Polyethylene sheeting shall be sized and installed to minimize seams. If the floor area to be covered requires seaming, seams on successive layers of polyethylene sheeting shall be staggered a minimum of six feet between each seam to reduce the potential for water penetration into the existing flooring. Do not install seams at the junction between a wall and floor.
9. Polyethylene sheeting shall be installed so as to prevent slippage between successive layers of installed material.
10. For Class I and II asbestos work, walls shall be covered with two layers of 4-mil minimum thickness polyethylene sheeting.
11. Polyethylene sheeting installed on a wall shall be adequately fastened to prevent it from falling away from the walls. Provide additional support/attachment when air filtration ventilation systems are provided.
12. For Class I and II asbestos work with porous, dropped, or perforated ceilings, those ceilings shall be covered with one layer 4-mil minimum thickness polyethylene sheeting.
13. Polyethylene sheeting installed on ceilings shall be adequately fastened to prevent it from falling away from the ceiling.
14. Provide one layer of 3-mil maximum, polyethylene sheeting (non-fire retardant type) for isolation of fire sprinkler devices. Installed taping shall not impede the normal function of the fire sprinkler device. Approved wire sprinkler guards shall be furnished in conjunction with isolation.
15. Where required, install and operate air filtration equipment to provide one air change in the abatement work area every 15 minutes. Openings made in the enclosure system to accommodate these units shall be made airtight with durable tape and/or caulking as needed. If more than one unit is installed, they shall be turned on one at a time, checking the integrity of barriers after each unit

is started. Insure that adequate power supply is available to satisfy the requirements of the air filtration units. Exhaust from these units shall be directed to the outside of the building whenever feasible. They shall not be exhausted into occupied areas of the buildings. Exhaust duct shall be extended from the abatement work area to the outside as required. Careful installation and daily inspections shall be performed to verify the exhaust ducts do not discharge into any areas of the building.

16. Once the enclosure system is constructed and reinforced with air filtration units in operation as required, test the enclosure for leakage utilizing smoke tubes. Repair, replace or reconstruct as required.
17. Commencement of the work of this section shall not occur until:
 - a. The entire containment system has been constructed and inspected by Owner Consultant in accordance with the required Shop Drawings.
 - b. Air filtration units are functioning within the requirements of this section.
 - c. Pre-Abatement submittals, notifications, postings, and permits have been provided and reviewed by the Owner Consultant.
 - d. Equipment for abatement, decontamination, and disposal are on the project site.
 - e. Worker training, respirator fit testing, and medical surveillance has been provided and reviewed by the Owner Consultant.
 - f. A Notice to Proceed is transmitted by the Owner.

3.2 DECONTAMINATION ENCLOSURE SYSTEM FOR ABATEMENT WORK

- A. Decontamination enclosure systems shall be provided at locations where workers will enter or exit the abatement work area of Class I and II asbestos work prior to any other set up. Only one system at a single location for each regulated area is required. At least one individual shall be stationed at the entrance of each system at times abatement work is in progress.
- B. These systems may consist of existing rooms outside of the abatement work area, if the layout permits, and that can be enclosed in polyethylene sheeting, and are accessible from the Abatement work area. If this intended layout is not feasible, given existing site conditions, enclosure systems may be constructed out of metal, wood, or plastic support as required.
- C. Decontamination Enclosure Systems constructed at the project site shall be furnished with 6-mil opaque white or black polyethylene sheeting or other approved materials for privacy. Detailed descriptions of portable, prefabricated units, if furnished, shall be submitted for review. Shop drawings must include floor plan with dimensions, materials, size, thickness, plumbing, and electrical utilities.
- D. Decontamination enclosure system shall consist of at least a clean room, a shower room, and an equipment room, each separated from the other, from the abatement work area and from the non-work area by "Z-flaps" at a minimum. The system shall

be furnished with, at a minimum, two layers of 6-mil polyethylene sheeting on the floors, walls, and ceiling.

- E. Clean room shall be of adequate size to accommodate the abatement crew. Clean work clothes, clean disposable clothing, replacement filters for respirators, disposable towels, and other necessary items shall be provided for in adequate supply adjacent to the clean room. A location for posting notices shall also be provided adjacent to this area. When required, a lockable door shall be furnished to control access into the clean room from outside the abatement work area. Comfort lighting, heat, and electricity shall be provided as required. The clean room shall not be used for storage of tools, equipment, materials, or as office space.
- F. Shower room (where required) shall contain one or more showers as required to adequately accommodate workers. Each showerhead shall be supplied with hot and cold water adjustable at the tap. The shower enclosure shall be constructed to ensure against any kind of leakage. Provide an adequate supply of soap, shampoo, and disposable towels, available at times. Shower water shall be drained, collected, and progressively filtered through a system achieving a maximum particle size of 1.0 microns.
- G. The equipment room shall be used for storage of equipment and tools at the end of a shift. These shall have been cleaned using a HEPA Filtered vacuum and wet cleaning methods. A container lined with a labeled 6-mil polyethylene bag for collection of disposable clothing shall be located in this room. Reusable footwear shall be stored in this area after being cleaned.

3.3 WASTE CONTAINER REMOVAL AIRLOCK AND EMERGENCY EXITS

- A. The waste container pass-out airlock shall be constructed away from the decontamination enclosure system. This airlock shall be in a location that provides direct access from abatement work area to the outside of the building if possible.
- B. This system shall consist of an airlock, container staging area, and another airlock providing access to outside abatement work area.
- C. The waste container airlock shall be constructed in similar fashion with similar materials as the decontamination enclosure system.
- D. This airlock system shall not be used to enter or exit the abatement work area.

3.4 WORKPLACE ENTRY AND EXIT PROCEDURES

- A. Before entering the regulated area personnel shall read and be familiar with posted regulations, personal protection requirements, and emergency procedures. A signature sheet shall be posted for signatory acknowledgement these have been reviewed and understood by personnel prior to entry.
- B. Workers and other authorized personnel shall enter the abatement work area through the decontamination enclosure system or other room required when decontamination enclosure system is not required.
- C. Personnel who enter or exit the regulated area shall sign the entry and exit log located adjacent to the clean room.

- D. Personnel shall proceed first to the clean room, don respirator, and washable and/or disposable clothing.
- E. General construction area equipment including, but not limited to, hard hats, eye protection, and gloves shall also be provided as required. Clean respirator and cartridges, and protective clothing shall be provided and utilized by each person for each separate entry into the regulated area.
- F. Before leaving the regulated area for Class I and II asbestos work, personnel shall remove gross contamination from the outside of respirators and protective clothing by vacuuming and/or wet wiping methods. Each person shall clean protective footwear just prior to entering the equipment room.
- G. Personnel shall proceed to equipment room where they remove protective equipment except respirators. Deposit disposable clothing into appropriately labeled containers.
- H. Still wearing respirator, personnel shall proceed to the shower area, clean the outside of the respirators and the exposed face area under running water prior to removal of respirator then shower and shampoo to remove residual asbestos contamination. Various types of respirators will require slight modification of these procedures. A powered air purifying respirator face piece will have to be disconnected from the filter/power pack assembly when such is not waterproof, upon entering the shower. A dual cartridge respirator may be worn into the shower and cartridges shall be replaced for each new entry into the work area.
- I. After showering and drying off, proceed to the clean room and don clean clothing.
- J. At no time shall any personnel exit an abatement work area into a space occupied by staff or inmates without being completely dressed. Any violation of this requirement will result in the permanent removal of the person from the Project site.

3.5 REMOVAL PROCEDURES

- A. Wet all asbestos containing material with an amended water solution using equipment capable of providing a fine spray mist, in order to reduce airborne fiber concentrations when the material is disturbed. Saturate the material to the substrate; however, do not allow excessive water to accumulate in the work area. Keep all removed material wet enough to prevent fiber release until it can be containerized for disposal. If work area temperatures are below 32 F and amended water is subject to freezing, dry removal permits and procedures must be utilized (see 2.1.2.1). Maintain high humidity in the work area by misting or spraying to assist in fiber settling and reduce airborne concentrations. Wetting procedures are not equally effective on all types of asbestos containing materials but, shall none the less be used in all cases.
- B. Saturated asbestos containing material shall be removed in manageable sections. Removed material should be containerized before moving to a new location for continuance of work. Surrounding areas shall be periodically sprayed and maintained in a wet condition until visible material is cleaned up.
- C. Material removed from building structures or components shall not be dropped or thrown to the floor. Material should be removed as intact sections or components

- whenever possible and carefully lowered to the floor. If this cannot be done for materials greater than 50 feet above the floor, a dust-tight chute shall be constructed to transport the material to containers on the floor or the material may be containerized at elevated levels (e.g., on scaffolds) and carefully lowered to the ground by mechanical means. For materials between 15 and 20 feet above the ground, they may be containerized at elevated levels or dropped onto inclined chutes or scaffolding for subsequent collection and containerization.
- D. Large components removed intact may be wrapped in 2 layers of 6 mil. Polyethylene sheeting secured with tape for transport to the landfill.
 - E. Asbestos containing waste with sharp-edged components (e.g., nails, screws, metal lath, tin sheeting) will tear the polyethylene bags and sheeting and shall be placed into drums for disposal.
 - F. After completion of all stripping work, surfaces from which asbestos containing materials have been removed shall be wet brushed and sponged or cleaned by some equivalent method to remove all visible residues.
 - G. After the work area has been rendered free of visible residues, a thin coat of a satisfactory encapsulation agent shall be applied to all surfaces in the work area including structural members, building components and plastic sheeting on walls, floors and covering non-removable items, to seal in non-visible residue.
 - H. Brushes furnished for removing loose Asbestos Containing Material during detail cleaning of substrate shall be furnished with nylon or fiber bristles. Metal or wire brushes are not permitted. Brushes used during this process shall be disposed as contaminated waste when use of the brush for this work is completed.
 - I. A sufficient supply of HEPA Filtered vacuum systems shall be provided during cleanup of abatement work. Brush attachments are not permitted for use with vacuum systems.
 - J. Barriers constructed to isolate the regulated area from other areas shall be inspected at least three times per shift; prior to the start of abatement activities; half way into the shift; and following the completion of the abatement activities at the end of the shift. Inspect and document observations in the daily Project log.
 - K. Damage and defects in the Enclosure system shall be repaired immediately upon discovery.
 - L. At any time during abatement work, following barrier installation, if visible debris is observed outside of the regulated area or damage occurs to the barriers, stop work immediately. Repairs shall be performed to the barriers and debris/residue shall be cleaned up with appropriate HEPA Vacuuming and wet wiping methods. These incidents shall be recorded in the daily project log.
 - M. If air samples collected outside of the work area during abatement work indicate airborne fiber concentrations greater than 0.01 f/cc or the pre-measured background levels (whichever is lower) work shall stop immediately. An inspection and repair of barriers shall be performed as required. Surface cleaning with HEPA vacuums and wet wiping methods of areas outside of the work area may be required by the Owner.

Findings, observations, and corrective actions shall be documented in the daily project log.

3.6 ENCAPSULATION AND BRIDGING AGENTS

- A. Clean and isolate the work area in accordance with "Work Area Preparation" of this Section.
- B. Lockdown and encapsulating material, and bridging agents shall be reviewed by the Owner Consultant prior to the commencement of the work of this section.
- C. Encapsulating material shall be sprayed applied with airless spray equipment. Nozzle pressure shall be adjustable within a range of 400 to 1500 PSI.
- D. Lock down coat shall be spray applied with low pressure providing a continuous even coat.

3.7 CLEAN UP PROCEDURES

- A. Asbestos Clean Up Procedures:
 - 1. Unless decontaminated daily, reusable footwear and kneepads shall be stored in the equipment room when not in the work area. Upon completion of abatement work, these shall be disposed of as asbestos contaminated waste or may be decontaminated at the completion of abatement work.
 - 2. Remove and containerize visible accumulations of asbestos-containing material and asbestos contaminated debris with rubber dustpans and rubber squeegees. Special care shall be taken to minimize damage to flooring materials.
 - 3. All asbestos waste shall be double bagged and the opening sealed in a gooseneck fashion.
 - 4. Remove containerized waste from the abatement work area and the waste container airlock.
 - 5. Wet wipe surfaces in the regulated area with clean rags, mops, and sponges as appropriate.
 - 6. After cleaning remove the top layer of polyethylene sheeting from walls and floors.
 - 7. Clean the second layer of polyethylene sheeting by wet wipe and HEPA vacuuming. Windows, doors, HVAC system vents, and other critical seals shall remain sealed until the abatement work area passes final clearance. The air filtration units shall remain in continuous operation and the decontamination enclosure system shall remain in place and be utilized.
 - 8. Decontaminate tools and equipment and remove at the appropriate time in the cleaning process.
 - 9. Provide notification to the Owner at least one day in advance when abatement work will be completed and ready for final visual inspection. If, upon inspection, abatement work is not completed or the area does not pass final visual inspection, finish or correct the abatement work as required before notifying the Owner. Subsequent inspections shall commence not later than one day following notice.

10. The Owner Consultant shall inspect the work area for visible residue. If residue is observed, it shall be deemed to contain asbestos and the cleaning process shall be repeated. The lock down coat shall be applied only after inspection by the Owner Consultant and during non-school hours.
11. The second layer of isolation shall only be removed after the Owner Consultant inspects the lock down coat or installed Encapsulation, but in no case prior to overnight drying of lock down coat or encapsulation.
12. Following completion of air clearance monitoring the remaining barriers shall be removed and properly disposed of. A final visual inspection by the Owner Consultant shall be performed to verify that no contamination remains in the abatement work area. Unsatisfactory conditions may require additional cleaning and air monitoring.

3.8 WASTE HANDLING AND TRANSPORTATION

A. Asbestos Waste Handling

1. As the Work progresses, to prevent exceeding available storage capacity on the project site, sealed and labeled containers of asbestos-containing waste shall be removed and transported to the prearranged disposal location.
2. Personnel loading Asbestos waste shall be protected with disposable clothing and at a minimum half-face, air purifying, dual cartridge respirators furnished with HEPA Filters.
3. All waste material shall be labeled in compliance with California Code of Regulations, Title 8, Section 1529. Asbestos subsection (k) (C) (8) Labels.
4. Waste shall not be transported from the work area to the storage container while inmates or staff are present in the path of travel. Where a path of travel cannot be cordoned off, the movement of waste must be completed when inmates and/or staff are not present.
5. Once the drums, bags, and/or wrapped components have been removed from the work area, they shall be loaded into an enclosed truck or bin for transportation.
6. Before transporting or offering hazardous waste for transportation off-site, the generator shall mark each package of hazardous waste in accordance with the applicable Department of Transportation regulations on hazardous materials under Title 49 Code of Federal Regulations Part 172.
7. Waste disposal shall occur at an authorized site in accordance with regulatory requirements of NESHAP and applicable State and Local regulations.

3.9 TRANSPORTATION OF NON HAZARDOUS WASTE

- A. Waste shall be containerized, labeled, and transported in accordance with federal, state, and local regulations.
- B. Waste shall be transported under a non-hazardous waste manifest.
- C. Containers shall be enclosed during transportation.

3.10 TRANSPORTATION OF HAZARDOUS WASTE

- A. Dump receipts; trip tickets, transportation manifests, weight certificates or other documentation of disposal shall be delivered to the Owner Consultant within 48 hours of disposal. As the material and responsibility for the material changes hands, the generator or designee, the transporter(s), and the disposal site operator shall sign the Uniform Hazardous Waste Manifest. If a separate waste hauler is employed, the name, address, U.S.E.P.A. ID number, and signature of the transporter shall also be affixed onto the manifest.
- B. The enclosed cargo area of trucks or containers shall be free of debris and lined with 6 mil polyethylene sheeting to prevent contamination from leaking or spilled containers. Floor sheeting shall be installed first and extend up the sidewalls. Wall sheeting shall be overlapped and taped into place.
- C. Drums shall be placed on level surfaces in the cargo area and packed tightly together to prevent shifting and tipping. Large structural components shall be secured to prevent shifting, with bags placed on top.
- D. Access openings on large metal containers, which are used for storing or transporting Asbestos waste, shall have doors and tops that can be closed and locked. Materials not properly bagged shall not be placed in these containers nor shall these containers be used for non-Asbestos waste or non-hazardous asbestos waste. Bags shall be placed, not thrown, into these containers to avoid damage.

3.11 MONITORING

- A. Abatement Project Management and Inspection:
 - 1. Owner has the right to perform air and performance monitoring at any time.
 - 2. The Owner has unlimited access to the regulated and surrounding areas at times during progress of the work, including, but not limited to, use of ladders, scaffolds, and other equipment required to gain access to the Work surfaces.
- B. Work Area Monitoring:
 - 1. Visual inspections and air testing may be performed at any time during the progress of the abatement work. Provide corrective measures as required to maintain the work area in compliance with this Specification and regulatory requirements.
- C. Contractor's Employee – Personal Air Monitoring:
 - 1. Provide air monitoring as required California Code of Regulations, Title 8, Section 1529. Results shall be provided to the Owner Consultant within ten working days of sampling. Negative Exposure Assessments utilizing prior project monitoring require submittal of applicable data for approval before work proceeds.
- D. Clearance Air Monitoring:
 - 1. Following the completion of abatement work and clean-up operations, lock down coat application, and visual inspection by the Owner, clearance air monitoring shall be performed by the Owner Consultant.

2. The Owner Consultant shall arrange for sampling of the air in the abatement work area for airborne fiber concentrations. Clearance sampling shall be performed in compliance with one of the following methods:
 - a. AHERA TEM air clearance sampling shall be performed in compliance with 40 CFR, Part 763, Subpart E which may include the following:
 - i. Five (5) samples inside the work area. Samples taken inside the work area shall be conducted under aggressive conditions.
 - ii. Five (5) samples outside of the work area.
 - iii. One (1) inside work area blank, one (1) outside work area blank and one (1) sealed blank.
 - iv. All inside work area sample results on average must be below 70s/mm²
 - b. NIOSH 7402 TEM Level II (Yamate)
 - i. Three (3) samples inside the work area.
 - ii. One (1) inside work area blank (field blank), one (1) sealed blank.
 - iii. All inside work area sample results on average must be below 70s/mm²
 - c. NIOSH 7400 Phase Contrast Microscopy (PCM)
 - i. Three (3) samples inside the work area.
 - ii. One (1) inside work area blank (field blank), one (1) sealed blank.
 - iii. All inside work area sample results must be below 0.01f/cc
 3. If air-sampling results are within the limits of 40 CFR, Part 763, Subpart E (AHERA), the Abatement Work area shall be released for occupancy.
 4. Areas failing clearance monitoring shall be cleaned as required in article 3.09, CLEAN UP PROCEDURES, and tested until satisfactory levels are provided in accordance with this Specification where required.
 5. Unauthorized interference or tampering with air sampling equipment may result in termination of the Contract and/or removal of the abatement contractor from the list of prequalified abatement contractors.
- E. Visual Clearance Inspections:
1. Following the completion of abatement work and clean-up operations, lock down coat application, and visual inspection by the Owner, final clearance inspections shall be performed by the Owner Consultant.
 2. The Owner Consultant shall perform a visual final clearance inspection of each regulated work area to insure that all impacted asbestos-containing materials have been adequately removed and that no ACM material or debris remains in the work areas.
 3. Areas failing clearance inspections shall be cleaned and re-evaluated until no visible asbestos-containing materials and/or asbestos-containing debris remain in the work areas.

3.12 RE-ESTABLISHMENT OF THE WORK AREA AND SYSTEMS

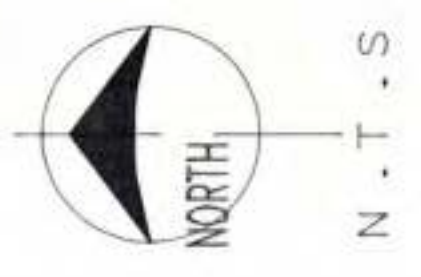
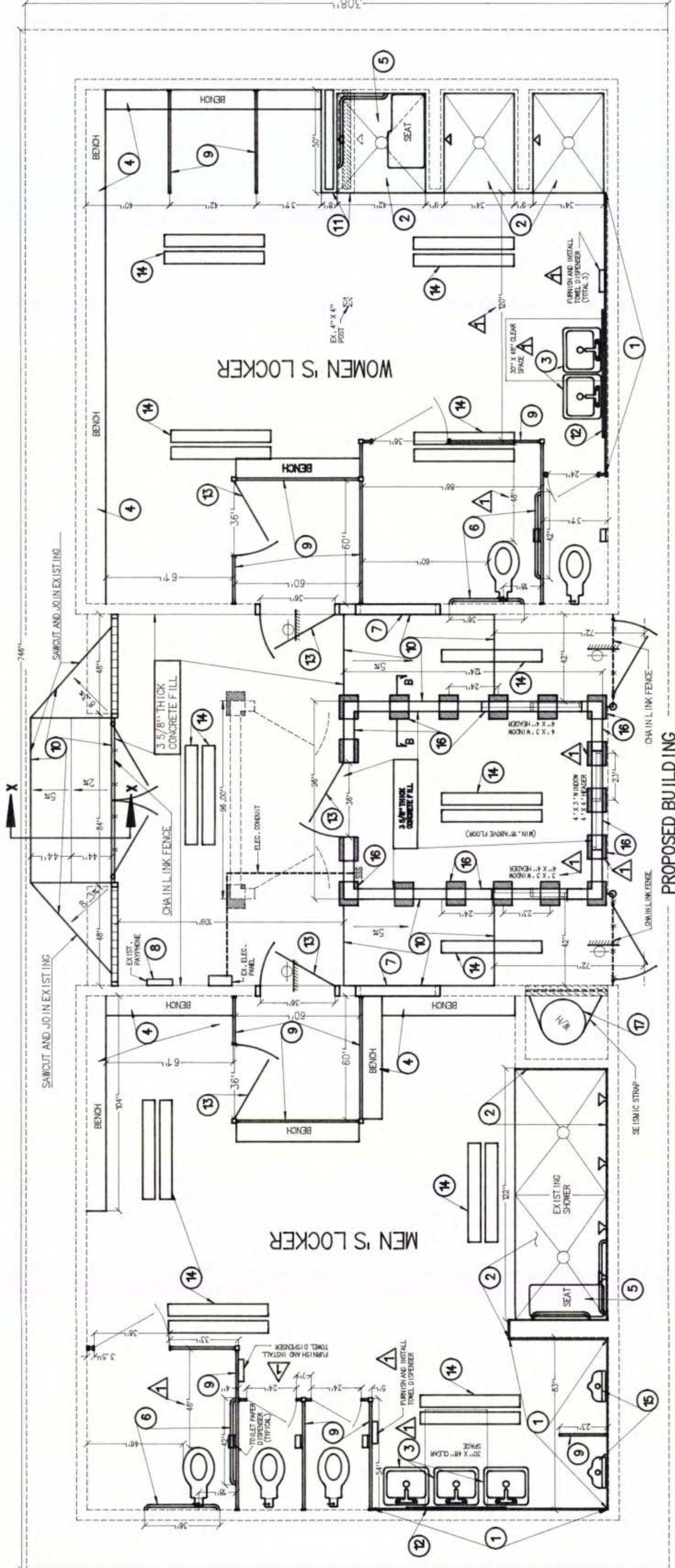
- A. Reestablishment of the work area shall only occur following the completion of final inspection and clearance air monitoring.

- B. Critical barriers shall be removed at this time.
- C. Accompanied by the Owner Consultant, visually inspect the abatement work area for any remaining visible residue. Evidence of contamination will require additional cleaning requirements.
- D. Upon successful completion of the clearance inspection, air monitoring and final walkthrough of the work areas, the site will be released to the Owner as a non-regulated work area and the demolition activities may proceed.

END OF SECTION

APPENDIX “A”

(As-Built Drawing)



SECTION X - X

SECTION B - B

CONSTRUCTION NOTES:

- 1. FURNISH AND INSTALL TILE ON WALL WITH COVERING TO 48" ABOVE FLOOR WITH COVING.
- 2. FURNISH AND INSTALL TILE ON SHOWER FLOOR AND WALL TO 84" ABOVE FLOOR WITH COVING.
- 3. FURNISH AND INSTALL NEW SINK AND SINK FIXTURES (TYP.) FURNISH AND INSTALL NEW CUPPER PLUMBING (EXPOSED PIPING) (TOTAL 3)
- 4. FURNISH AND INSTALL NEW WOODEN BENCHES PER DWG PW 1372
- 5. FURNISH AND INSTALL NEW HAND/TOILET SHOWER FACILITIES PER STATE TITLE 24 STD DWG.
- 6. FURNISH AND INSTALL NEW CUPPER PLUMBING (EXPOSED PIPING).
- 7. REMOVE EXISTING DOOR AND JAMB AND SEAL OPENING WITH BLOCK AND MORTAR TO MATCH EXISTING DOWEL INTO EXISTING WALL WITH REDUCED EXISTING PAYPHONE PER STATE TITLE 24 STD DWG.
- 8. COORDINATE WITH TEL. CO.
- 9. FURNISH AND INSTALL NEW SOLID PLASTIC PARTITIONS WITH DOORS AND HARDWARE. REMOVE AND DISPOSE OF ALL EXISTING LOCKER ROOM PARTITIONS.
- 10. SAWCUT AND REMOVE EXISTING SLAB. CONSTRUCT VARIABLE THICKNESS CONCRETE PAD AND RAMP.
- 11. SAWCUT AND REMOVE EXISTING MASONRY WALL. CONSTRUCT NEW MASONRY WALL TO MATCH EXISTING AT NEW LOCATION. INSTALL NEW TILE FULL HEIGHT ON END AND ONE SIDE.
- 12. FURNISH AND INSTALL NEW MIRROR 66" X 28" AT SAME LOCATIONS AS EXISTING. DISPOSE OF EXISTING MIRROR. (TOTAL 2)

- 13. FURNISH AND INSTALL NEW SOLID WOOD DOOR AND HARDWARE. INCLUDING DEADBOLT LOCK SET. NEW DOORS SHALL BE HANDICAP ACCESSIBLE AND HARDWARE SHALL COMPLY WITH STATE TITLE 24. INSTALL LOCKS ON THREE ENTRY DOORS.
- 14. FURNISH AND INSTALL NEW FLUORESCENT LIGHTING FIXTURES. LIGHTING FIXTURES SHALL BE HEAVY DUTY AND WATER PROOF (CYCLOPS) (EXPOSED ELEC. CONDUIT INSTALL SURFACE CONDUIT FURNISH AND INSTALL NEW SINGLE POLE SWITCHES
- 15. FURNISH AND INSTALL NEW URINALS. ONE URINAL SHALL BE HANDICAP ACCESSIBLE. REMOVE AND DISPOSE OF EXISTING. INSTALL NEW CUPPER PLUMBING (EXPOSED PIPING). INSTALL NEW SINKER CONNECTIONS.
- 16. CONSTRUCT NEW OFFICE WALLS, DOORS, WINDOWS, CONCRETE PIERS AS SHOWN.
- 17. FURNISH AND INSTALL NEW MIN. 84 GAL. 180,000 BTU MIN. WATER HEATER. INSTALL NEW CUPPER PLUMBING (EXPOSED PIPING).
- 18. REPLUMB WITH COPPER (EXPOSED PIPING) THE EXISTING MEN'S AND WOMEN'S LOCKER ROOMS.
- 19. FURNISH AND INSTALL RESTROOM TOILETS AND PAPER DISPENSERS. INSTALL NEW CUPPER PLUMBING (EXPOSED PIPING). HANDICAP RESTROOMS SHALL BE HANDICAP ACCESSIBLE. FURNISH AND INSTALL GENDER SYMBOLS ON NEW RESTROOM DOORS.
- 20. INSTALL NEW WATER VALVES (TOTAL 3) 1. FOR BUILDING 2. FOR MEN'S LOCKER ROOMS 3. FOR WOMEN'S LOCKER ROOMS. INSTALL NEW CUPPER PLUMBING TO LOCKER ROOMS. ABANDON ALL EXISTING IN PLACE. CAP ENDS.

DEDUCTIVE ALTERNATE # 1: REPAIR EXISTING BUILDING. REPAIR MATERIAL SHALL BE CLASS "A" AND SHALL COMPLY WITH LBC TABLE NO. 32-E. REPAIR EXISTING ROOF.

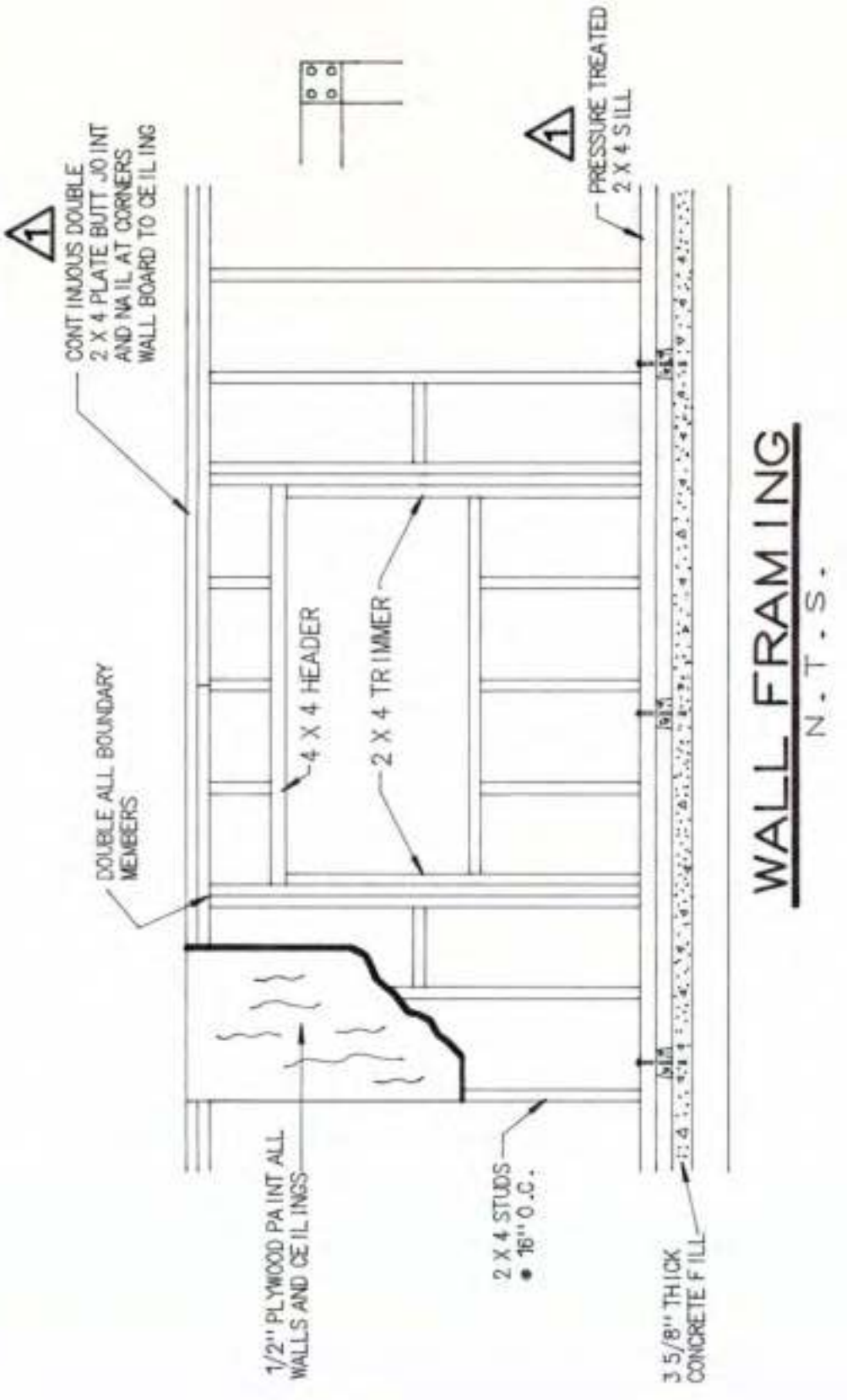
DEDUCTIVE ALTERNATE # 2: FURNISH AND INSTALL WROUGHT IRON GATES. (SEE SPEC IF DAT ON)

PAINT ALL WALLS AND CEILINGS WITH IN BUILDING INCLUDING OFFICE AND ENTRANCE WALLS AND CEILINGS.

NO HEATING OR COOLING ALTERATION

△ ITEMS CHANGED BY ADDENDUM NO. 1

RECORD DRAWING
06/05/96



NO.		REVISIONS	DATE	BY	APP.
1	RECORD DWG	TIME 09:24 AM	6/05/96	A.W.D.	5/96
DEPARTMENT OF PUBLIC WORKS					
CITY OF GARDENA					
PROJECT: PRIMM POOL IMPROVEMENT LOCKER ROOM RENOVATION					
LIMITS: 1650 W. 160TH STREET					
APPROVED BY: <i>[Signature]</i> DATE: 2/9/96					
DESIGNED BY: A.W.D. 2/96					
DRAWN BY: A.W.D. 2/96					
CHECKED BY: W.Y.N. 2/96					
DWG. NO. 5-2325					

NOTES

All locations shown for utility mains and laterals have been taken from records and their correctness and completeness is in no way guaranteed. It shall be the contractor's responsibility to locate all existing underground lines of every nature, whether shown here on or not and protect them from damage. The Contractor shall bear the total expense of repair to any line damaged by any operation in connection with the installation of this work. All main line sewer shall be 8" V.C.P. Standard Strength. House connection laterals shall be 6" V.C.P. and shall run to the property line. All work to be done according to the specifications of the City of Gardena. Install 6" Man at East Side as shown.

LEGEND



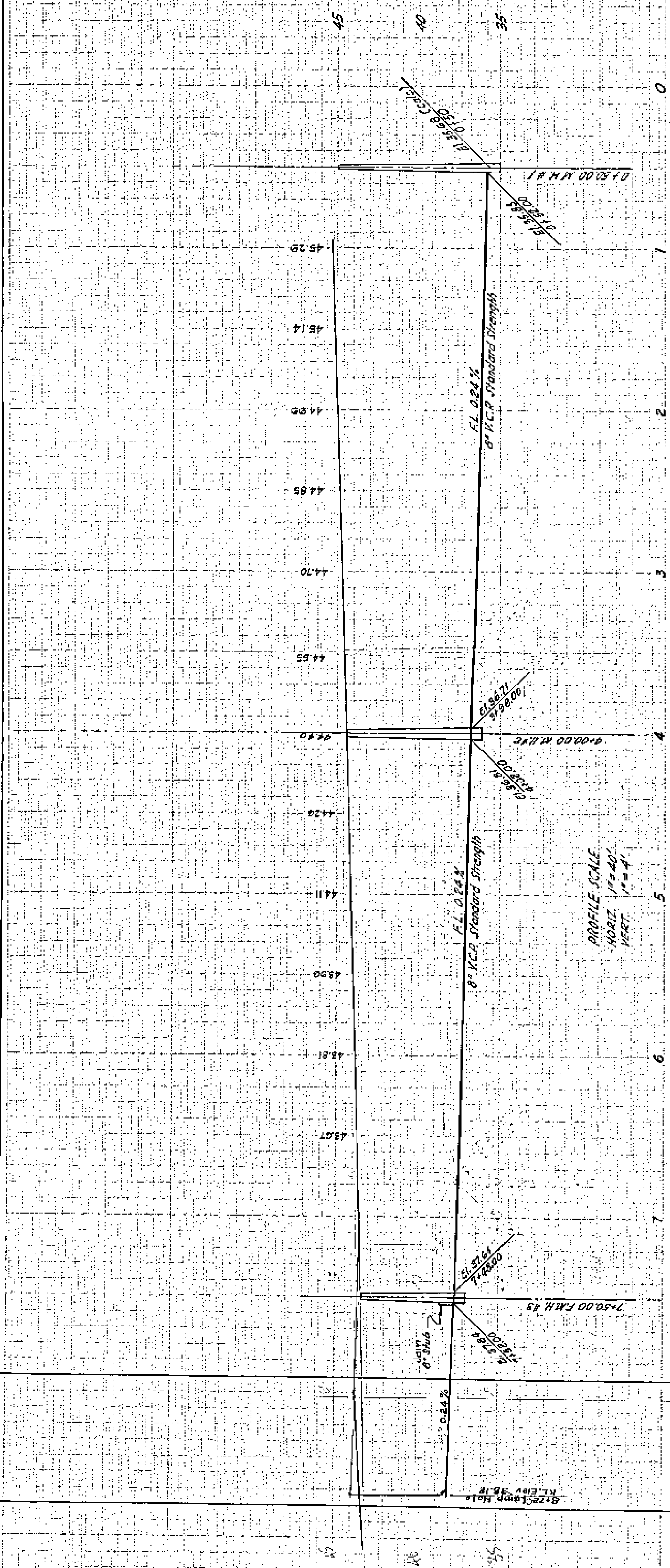
BENCH MARK

Lead 1. Track in curb 25' East of B.C.R. S.E. Cor. 158th St.
@ Dasher. El. 45.45

GARDENA STANDARD DRAWINGS

- M.H. S-2-1
- F.M.H. S-2-3 Sew Stop Valve
- M.H. Frame & Cover S-2-12
- Trench Subgrade S-2-13

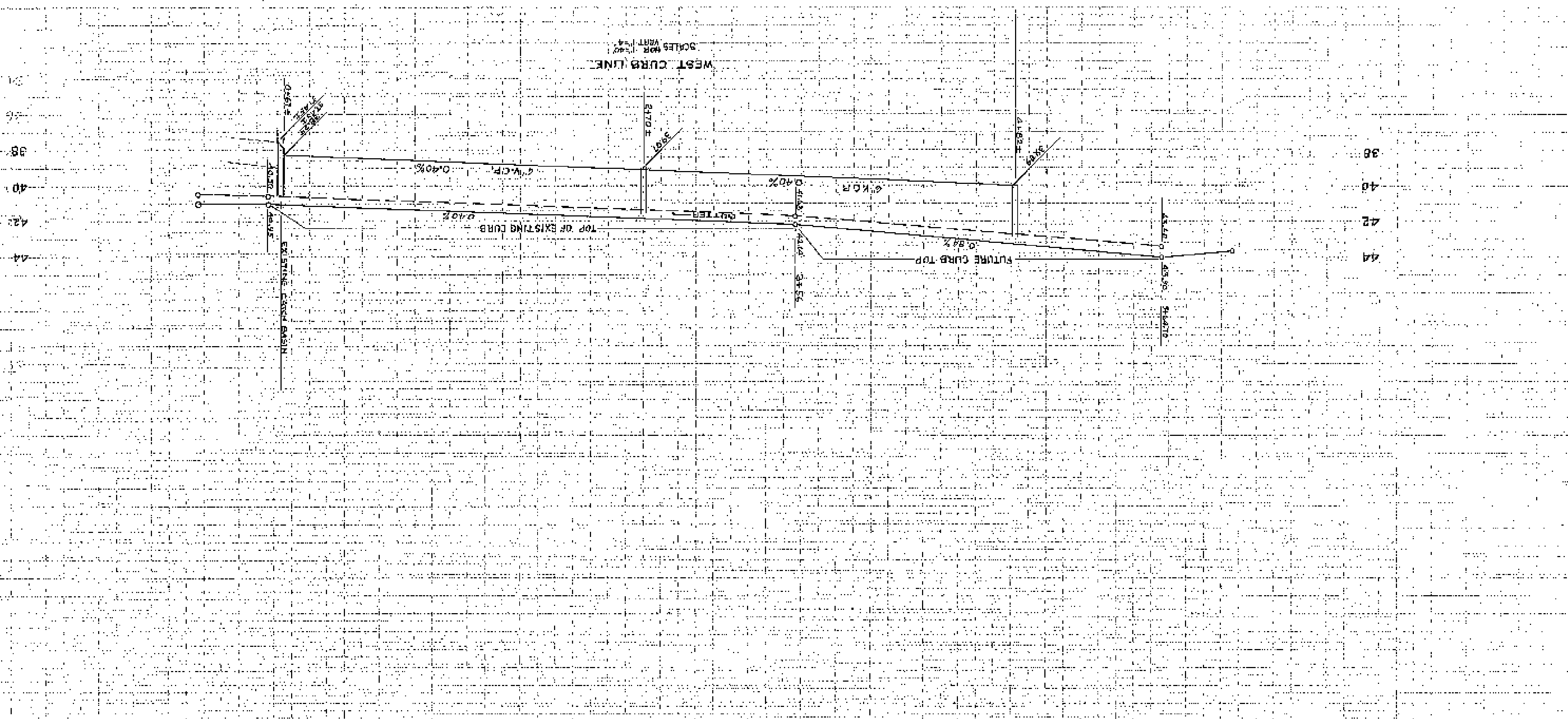
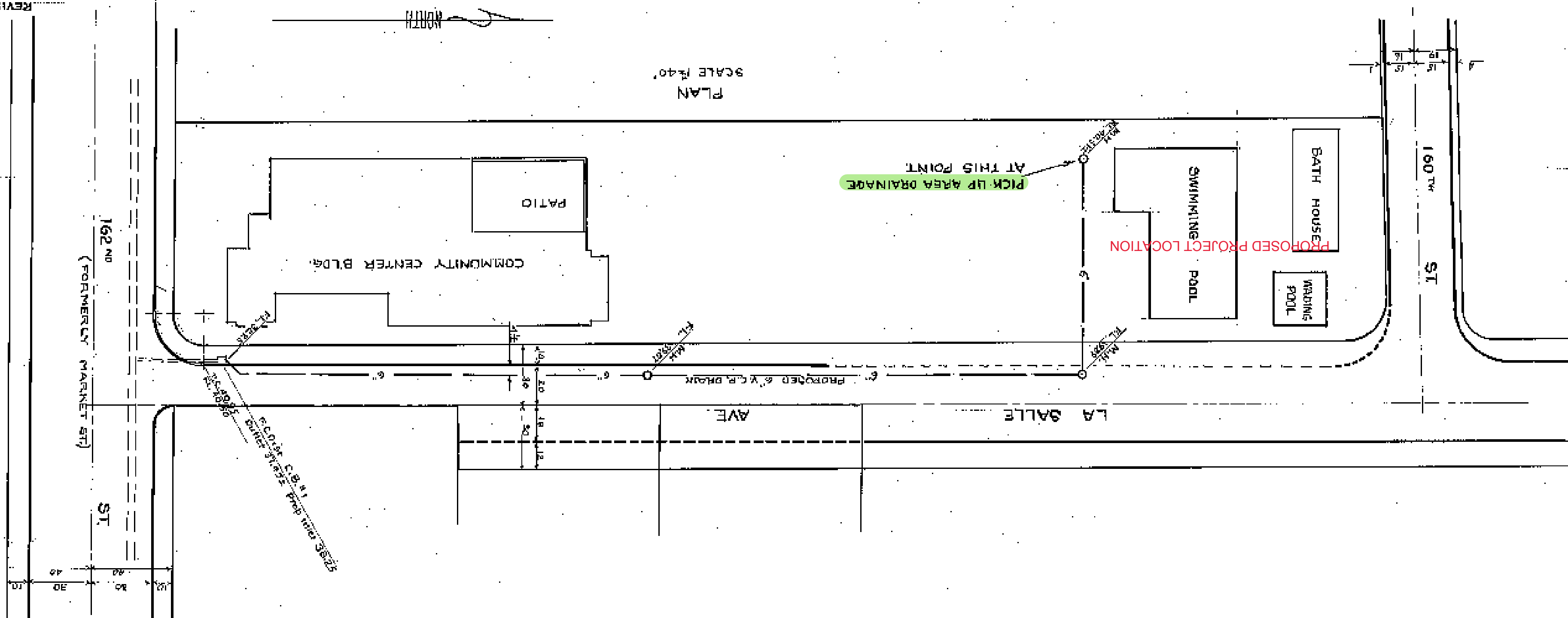
MANHOLE & WYE LIST	
N- LA SALLE AVE - E	
S.C.	0150.00
1+30	1+00
2+00	
2+67	2+51
3+00	
3+48	3+45
3+68	
M.H.	3+93.5
	4+00.00
4+17.5	4+44.5
4+69	4+93
5+18.5	5+40.5
5+67	5+93
6+11	6+45
6+61	6+94.5
	7+35.2 147.4
F.M.H.	7+50.00



NOTE MANHOLES TO BE STANDARD

MUNICIPAL SWIMMING POOL

REVISED 2-8-72
FOR PRINTS



CITY OF GARDENA	
ENGINEERING DEPARTMENT	
HARVARD BOULEVARD	
STREET IMPROVEMENT AND JANITARY SEWER	
FROM MARKET ST. TO 660' NORTH.	
DATE: 7-15-1933	APPROVED: [Signature]
SCALE: 1" = 40'	DESIGNED: [Signature]
BY: [Signature]	JOE NO. 8-45

NOTE: THIS NEW DRAWING MADE FROM THE
PRINT OF THE ORIGINAL DRAWING DATED
APRIL, 1933; DRAWING NO. 8-45

DESTROY PREVIOUS PRINTS.

REVISED: 8-15-32

9-5-35
9-11-35
9-11-32

SEWER "AS BUILT" TO (9-11-32)

APPROVED: APRIL 23, 1943.

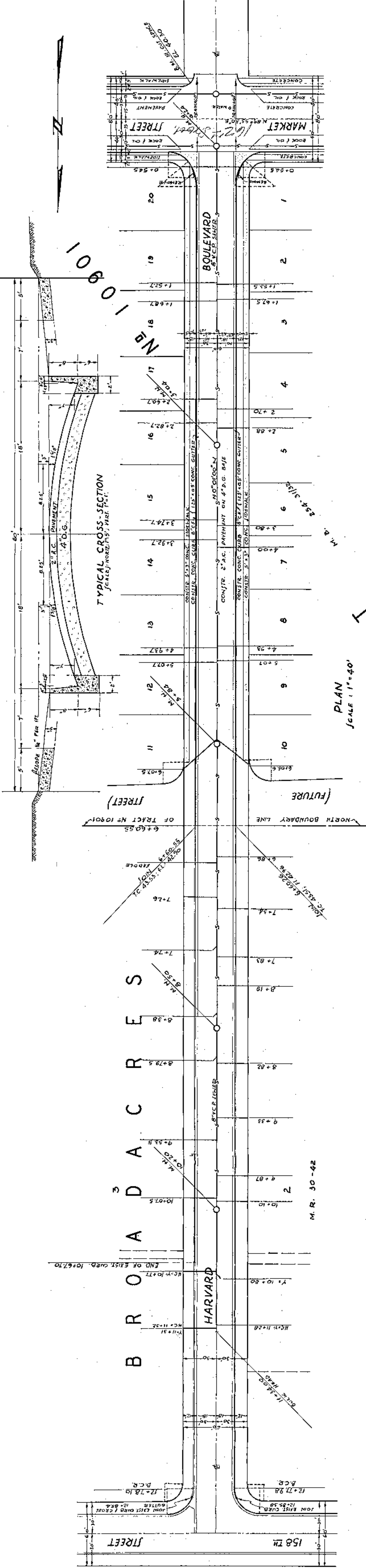
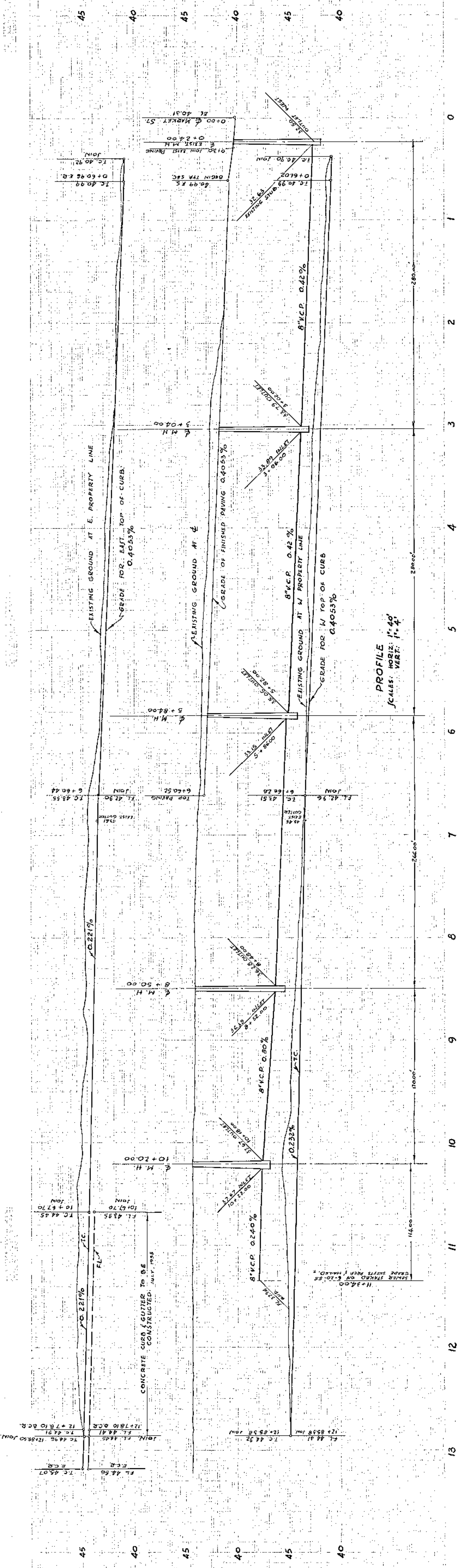
BY: (H.K. PALMER) OFFICE ENGINEER
(SIGNATURE ON ORIGINAL TRACING)

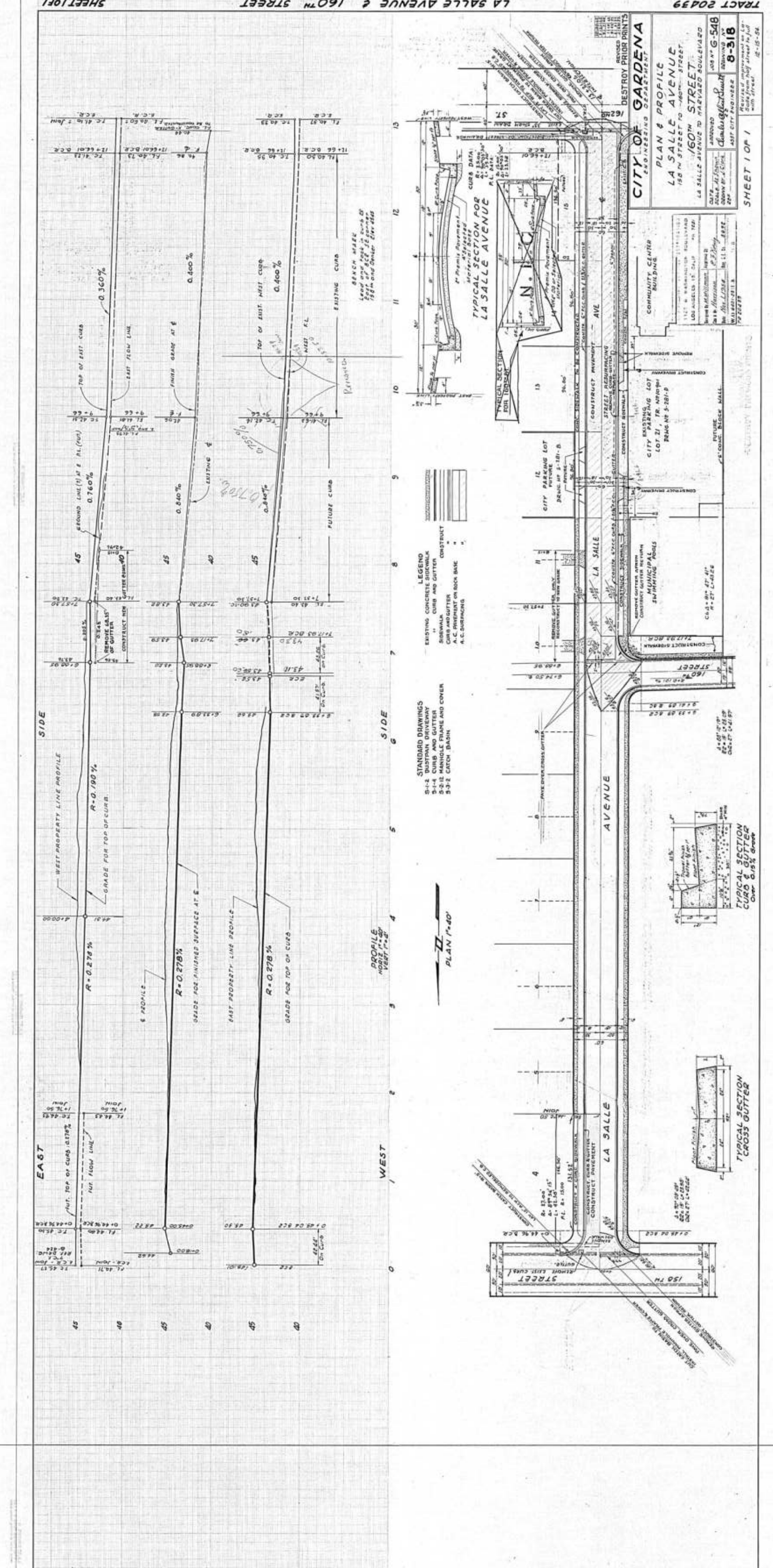
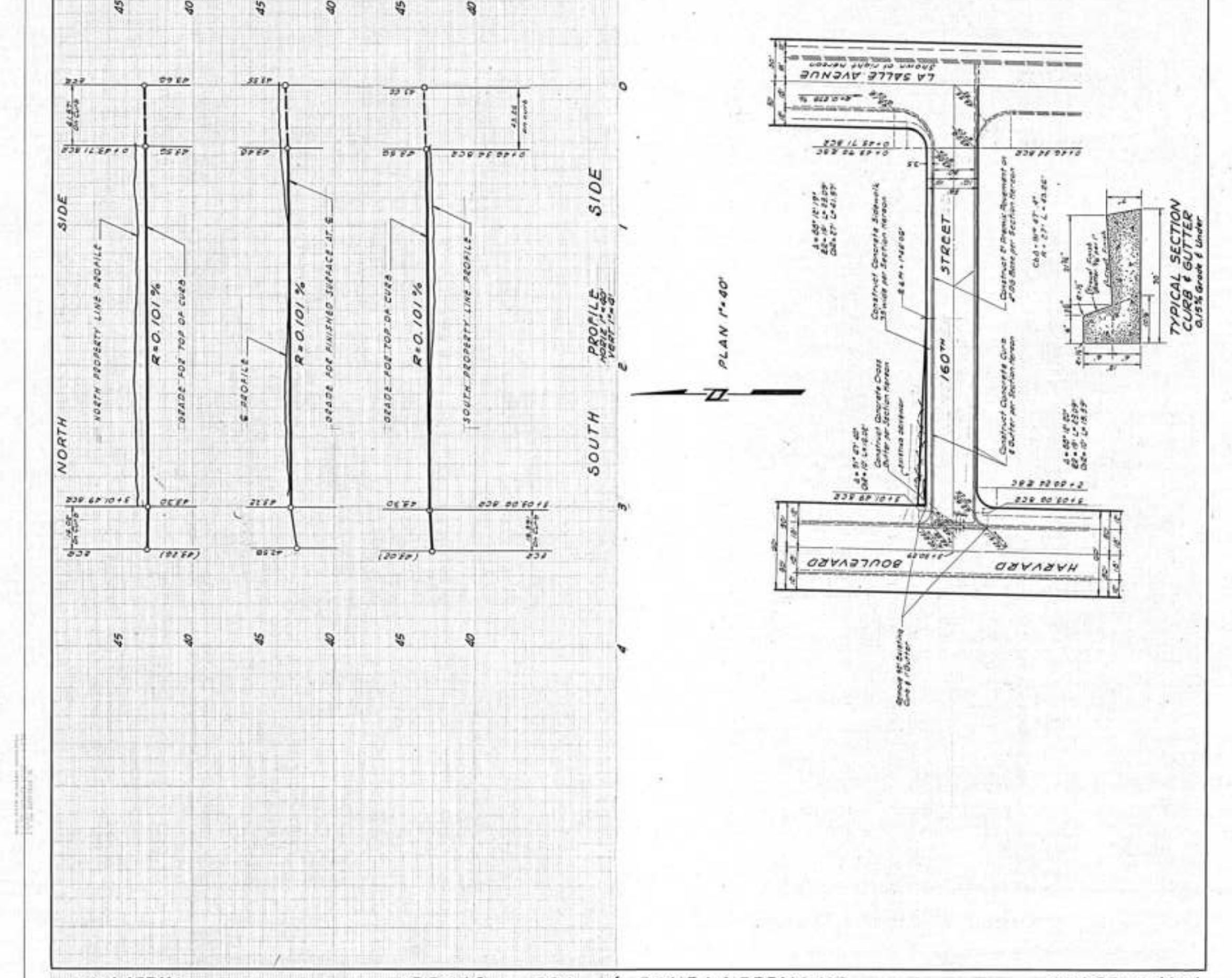
A.M. GANN - CHIEF ENGINEER

COUNTY SANITATION DISTRICT NO. 5

- NOTES:
- 1) SEWER M.H. COVER FRAMES TO BE SET AFTER
IMPROVEMENTS ARE MADE TO STREET.
 - 2) CONCRETE FOR CURBS, GUTTERS AND WALKS
TO BE 1 1/2% 3 1/2" MIX

EXCAVATION:
PAVEMENT: 1 1/2" C. WITH ONE COURSE SEAL
COT (18 GAL. 24 AND 6.183 SAND
PER SQ. YD.) JOINT MARKET ST PAVEMENT
BASE: 4" D.G. MIXED AND ROLLED 20750 SQ. FT.
GUTTER: 1 1/2" x 6" MIN. CONCRETE. SEE TYP. S.E.C. 2030
CURB: 6" TOP, 8" C.F. AT TOTAL DEPTH = 1242 L.W. FT.
SIDEWALK: 3" x 3" CONCRETE = 5816 SQ. FT.
SEWER: 2" V.C.P. MAIN LINE WITH ONE
TO V.C.P. LATERAL FOR LOT
JOINT COMPOUND. TWO M.H. JOINTS
EXISTING M.H. IN MARKET ST.





APPENDIX “B”

(Asbestos & Lead in
Paint Survey Report)



January 10, 2020

Mr. Kevin Kwak
P.E. Principal Civil Engineer
City of Gardena
1717 West 162nd Street
Gardena, California 90247

RE: Pre-Demolition Asbestos and Lead in Paint Survey

Primm Pool Building
1650 West 160th Street
Gardena, California 90247

CES Project No.: 19-CGAR.01

Dear Mr. Kwak:

On December 5, 2019, CES Environmental Consultants (CES) conducted a survey for asbestos-containing materials (ACMs), lead-based paint (LBP) and lead containing paint (LCP) in the Primm Pool Building located at 1650 West 160th Street, Gardena, California 90247.

Summary of Findings:

- ACM, grey roof mastic on penetration and patch,
- ACM, 4" diameter transite pipe (heater exhaust),
- LCP, exterior fascia board, window casings, soffit ceiling, block wall, wood ceiling, ceiling plaster.

ACMs and LCPs are itemized in Sections 5.3, and 6.3 in this report.

Removal or disturbances to ACMs should be completed by a licensed remediation contractor. LCP related work may be completed by lead trained workers. The work is subject local, State and Federal regulatory requirements including agency notification to the South Coast Air Quality Management District, and Cal-OSHA.

If you have any questions concerning the report, please contact our office.

This report was prepared by:

Cesar Ruvalcaba
Certified Asbestos Consultant #95-1799
CDPH Lead Inspector/Assessor, Project Monitor #I6855
CES Environmental Consultants
6741 Friends Avenue, Suite B
Whittier, California 90601
(323) 899-2488
Cesar.Ruvalcaba@cesenviron.com

REVIEWED

4/2/22

BPR CONSULTING GROUP

COMPLETION OF THIS REVIEW DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE OR LOCAL REGULATIONS.



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Appendices

Appendix A: Asbestos Analytical Data/Chain of Custody

Appendix B: Lead Analytical/Chain of Custody/Sample Location/CDPH Form 8552

Appendix C: Sample Diagram

Appendix D: Inspector Certifications

1.0 PROJECT INFORMATION

Primm Pool Building
1650 West 160th Street
Gardena, California 90247

2.0 INTRODUCTION AND BACKGROUND

The City of Gardena (City) retained CES to conduct a survey prior to demolition of the building. According to the City, the Primm Pool Building will be demolished in the near future.

3.0 SUBJECT SITE, AREA DESCRIPTION, MATERIAL CONDITIONS

The Primm Pool Building is a single-story building with cinder block walls, interior plaster and wood ceilings, concrete and ceramic floors and a flat gravel roof. At the time of the survey, the building materials were observed to be in good condition, except, for the ceiling plaster inside the East Locker room; the ceiling plaster is cracked and deteriorated due to from what appears to be water damage.

4.0 PROJECT SURVEY

CES representative Mr. Cesar Ruvalcaba, a Certified Asbestos Consultant (No.: 95-1799) and a State of California Department of Public Health Lead Inspector/Assessor (No. I6855), and Nicky Gutierrez-Moreno an AHERA Asbestos Abatement Building Inspector conducted the survey.

CES's objective was to conduct a survey and sampling of suspect ACMs and lead in paint. The survey included the following:

- Survey of the affected areas to locate suspect ACM and lead in paint;
- Physical assessment of suspect ACM, and painted surfaces;
- Collection of bulk samples from suspect ACM materials, and painted surfaces; and
- Submitted samples collected for laboratory analysis.

5.0 ASBESTOS SURVEY AND SAMPLING

5.1 Asbestos Laboratory Accreditation & Analytical Method

Collected bulk samples were analyzed using polarized light microscopy (PLM) for asbestos content in accordance with the United States Environmental Protection Agency's (USEPA) *Determination of Asbestos in Bulk Building Materials: EPA/600/R-93/116, July 1993.*

5.2 Asbestos Sampling Protocol

The sampling was conducted using guidelines set forth in US Environmental Protection Agency (EPA) *Federal Register 40 CFR Part 763*. Based on the requirements of the EPA, (40 CFR 763), a homogeneous material is defined as "an area of surfacing material, thermal system insulation material or miscellaneous material that is uniform in color and texture." The regulation requires that a minimum number of samples be collected from each homogeneous material. If one sample in a homogeneous material is found to contain asbestos, the entire homogeneous material should be considered to be asbestos-containing.

The EPA and California Occupational Safety and Health Administration (Cal-OSHA) have defined building materials containing asbestos as follows:

- **Asbestos-Containing-Material (ACM)** - any material containing greater than 1 percent (>1%) asbestos as determined by PLM, *40 Code of Federal Regulations (CFR) Part 61, Subpart M and The South Coast Air Quality Management District (SCAQMD) Rule 1403.*
- **Asbestos-Containing-Construction-Material (ACCM)** - any material containing less than one percent (<1%) asbestos and greater than one tenth of one percent (>0.1%) asbestos by weight, *California Code of Regulations (CCR), Title 8, Section 1529.*

5.3 Asbestos Sample Results

Table I: Summary of ACMs

Sample No.:	Material	Material Location	*Asbestos Content	Condition	Friable	Est. Quantity
22, 23, 24	Grey mastic on penetrations	Roof on patches, penetrations	8% chrysotile	Intact	No	20 sq.ft.
28	4" diameter transite pipe	Roof, south end above heater room	15% chrysotile and 3% crocidolite	Intact	No	5 ln.ft.

Table II: Summary of Materials Reported as None-Detected

Sample No.:	Material	Material Location
01, 02, 03	Mortar base under ceramic tile	East and West locker rooms
04, 05, 06	Ceramic tile grout	East and West locker rooms
07, 08, 09	Sink caulking	East and West locker rooms
10, 11, 12	Anti-slip spray on floor material	East and West locker rooms
13, 14, 15	Caulking around window openings	Exterior windows and doors
16, 17, 18	Ceiling plaster	East locker room
19, 20, 21	Mirror mastic	Exterior windows and doors
25, 26, 27	Gravel base roofing	Roof

5.4 Asbestos Recommendations

Removal of ACMs should be conducted by a licensed asbestos abatement contractor utilizing isolation control methods and dispose of properly. Workers handling ACMs shall be asbestos trained and shall wear the appropriate personal protective equipment.

The USEPA (locally enforced by South Coast Air Quality Management District (SCAQMD) requires that all ACMs be removed prior to any renovation or demolition activities that may impact the material. Asbestos materials that are not damaged may be managed in place with a good operations and maintenance (O&M) program.

6.0 LEAD SURVEY AND SAMPLING

CES conducted sampling for lead using on-site XRF analysis and collection of bulk paint chip samples. For the purpose of this survey and inspection, lead in paint is defined as described below:

- **Lead-based paint (LBP)**, according to, the California Department of Public Health, US Environmental Protection Agency (EPA), and US Department of Housing and Urban Development (HUD) is defined as paint or other surface coating with lead content equal to or greater than 1.0 mg/cm² of surface area using X-Ray Fluorescence (XRF) testing or 5,000 parts per million (ppm) (0.5 percent by weight) by paint chip analysis. The County of Los Angeles Department of Public Health Services, Childhood Lead Poisoning Prevention Program, has defined “dangerous levels of lead-bearing substances” as paint or other surface coating with lead content greater than 0.7 mg/cm² (Los Angeles County
- **Lead-containing paints (LCP)** according to Cal/OSHA *Title 8 CCR, Section 1532.1(d)* are defined as paints reported with any detectable levels of lead by paint chip analysis. When disturbed for construction purposes, these surfaces are subject to Cal/OSHA exposure assessment requirements.

6.1 Lead Paint Sampling Protocol

CES conducted an assessment and collected testing by XRF and bulk paint chip samples of representative accessible painted surfaces observed in the areas included in our scope of work.

Limited survey consisted of the following:

- Visual assessment of painted surfaces
- On-site direct reading analysis of suspect ceramic lead coated surfaces
- Collection of bulk paint chip samples down to the substrate
- Documentation of the physical condition and location of suspect materials
- Submitting bulk paint chip samples to a laboratory for analysis on lead content
- Preparing a report of findings and conclusions.

6.2 XRF On-Site Analysis Results (Lead Coatings)

Ceramic lead coated surfaces were tested using a portable XRF spectrum analyzer (Niton XL3t). Field calibration checks were performed prior, during and after each XRF lead inspection to determine that the device was functioning within acceptable limits (0.8 to 1.2 mg/cm² for a 20 second sample) determined by the manufacturer. Three readings of a red 1.04 mg/cm² Lead Paint Standard paint film were taken for each calibration check.

Summary of LBP by XRF Testing:

Sample No.	Color	Substrate	Component	Location	Level of Lead (mg.cm2)	Condition
01	Pre-Calibration reading				1.04	n/a
02	Pre-Calibration reading				1.04	n/a
03	Pre-Calibration reading				1.04	n/a
04	White	Ceramic	Wall	East and West Restrooms	0.24	Intact
05	White	Ceramic	Floor	East and West Restrooms	0.17	Intact
06	Post-Calibration reading				1.04	n/a
07	Post-Calibration reading				1.02	n/a
08	Post-Calibration reading				1.04	n/a

6.3 Bulk Lead Paint Chip Sampling

Seventeen paint chip samples were also collected to determine the weight percent concentration in the painted surfaces for construction safety as defined by Title 8 CCR Section 1532.1. Paint chip samples analysis was conducted in accordance with the EPA Method SW846/7420 by a laboratory accredited by the Environmental Laboratory Accreditation Program.

Summary of LBP and LCP by bulk paint chip analysis

- No LBP was reported by the laboratory for any of the samples collected.

Summary of LCP by bulk paint chip analysis

Sample No.	Color	Substrate	Component	Location	Level of Lead (ppm)	Condition
LP02	Blue	Wood	Fascia	Exterior	400	Intact
LP05	Grey	Wood	Window casing	Exterior	2,800	Intact
LP06	Grey	Wood	Ceiling Soffit	Exterior	360	Intact
LP10	Beige	Block	Wall	Heater closet	690	Intact
LP11, LP14	White	Block	Wall	All interior walls	60, 89	Intact
LP12	White	Wood	Ceiling	West locker	3,400	Intact
LP17	White	Plaster	Ceiling	East lockers	670	Fair

6.4 Lead Recommendations

For construction purposes, workers who disturb surfaces with LCP are subject to regulation under *Title 8 CCR, Section 1532.1 (d)*. These requirements include but are not limited to: Adequate training, personnel air sampling to determine worker exposure etc. If the exposure levels are likely or exceed the Permissible Exposure levels (PEL), or if a Lead Abatement Hazard is being conducted, the work may also be subject to the California Childhood Lead Poisoning Prevention Branch regulations (Title 17, Division 1, Chapter 8) which requires certifications of workers and project supervisors.

CES recommends that engineering controls, respiratory protection and personal protective equipment be used at the start of any project that disturbs painted surfaces until compliance with 1532.1 can be documented using representative data.

6.5 Lead Waste Disposal

For painted surfaces reported as lead containing paints, waste characterization sampling will be required prior to waste disposal. The waste shall be segregated into separate waste streams. A sufficient number of samples should be collected to adequately characterize the waste stream. Sample analysis will include at a minimum, Total Threshold Limit Concentration (TTLC), Soluble Threshold Limit Concentration (STLC) and Toxicity Characteristic Leaching Procedure (TCLP) to determine if waste is non-hazardous, RCRA or California hazardous waste in accordance with regulations in the state of California.

7.0 LIMITATIONS

The intent of this survey was to identify ACM, LBP, and LCP in construction materials and painted surfaces. This is a limited survey and applies only to the areas and materials tested and is not intended to be used for other areas, or materials which were not included in our scope.

The survey is intended to be used for construction purposes only.

CES has applied our best effort to locate all suspect ACMs, LBP, and LCP in the areas included in our survey scope of work.

Additional suspect materials could be located below soil, void spaces between walls and ceilings and/or in other concealed areas previously inaccessible. If any suspect materials or painted surfaces are found which have not been represented in this report, CES recommends that work stops until those materials can be sampled for asbestos and/or lead content. Additional suspect materials and paints may be present outside of the affected areas sampled. A survey below soil was not included in our scope of work.

Confined spaces, and areas determined by CES's personnel as unsafe to access, were not included in this survey scope of work.

CES interpreted the results provided by the laboratory analysis and compared the results to the relevant regulatory levels. We have relied on the laboratory to conduct the quality controls required for the analysis, as required to maintain their accreditation. It is our understanding that the laboratory QA/QC limits were within the acceptable levels for the samples analyzed. Method Detection Limit: Less than one percent (<1%).

Asbestos content has been determined using calibrated visual estimation (CVES). Due to the limitations of Polarized Light Microscopy, samples reported as None Detected or with low asbestos concentrations may not be reliable and further analysis such as TEM is recommended to confirm PLM results.

We will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report, expressed or implied.

CES does not guarantee or warrant that the facility or workplace is safe; nor does CES's involvement in this property relieve the Client, building owner/operator or tenant of any continuing responsibility of providing a safe facility or living space.

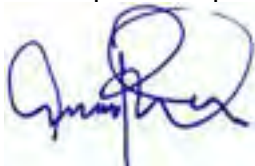
This report was based on those conditions observed on the day the field evaluation was accomplished. In the event that changes in the nature of the property have occurred, or additional relevant information about the property is subsequently discovered, the findings contained in this report may not be valid unless these changes and additional relevant information are reviewed, and the conclusion of this report is modified and verified in writing.

Material quantities included in this report are of observed material and provided as a best estimate for information only and shall not be used as a reliable quantity by any contractor for preparing removal bids. The contractor shall be solely responsible for assessing the type, extent, and quantity of material to be removed in each area of the project in preparing each project bid.

The property owner is responsible for ensuring that the information, conclusions, and recommendations disclosed in this report are brought to the attention of all appropriate staff, contractors, regulatory agencies etc. as required.

If you have any questions or concerns, feel free to contact the undersigned at the number listed below.

This report was prepared by:

A handwritten signature in blue ink, appearing to read 'Cesar Ruvalcaba', is positioned above the printed name.

Cesar Ruvalcaba, CAC, CDPH IA/PM
Senior Project Manager

APPENDIX A:

Asbestos Analytical Data/Chain of Custody



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Signal Hill, CA 90755
Toll: 888-207-2022
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CES Environmental Consultants
10120 Washington Avenue
South Gate CA 90280
Attn.: Cesar Ruvalcaba

Report Number 1938107

Date Received 12/05/2019

Date Analyzed 12/18/2019

Date Reported 12/18/2019

Project Number 19-CGAR.01

Project Name City of Gardena

Location Gardena- Primm Pool

PO Number

WO Number

Date Sampled 12/05/2019

Sampled By Cesar Ruvalcaba/Nicky Guttiere

Total Samples 28

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116
Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1938107-001 01	South Center West Locker Mortar Base under Ceramic Tile, White, Homogeneous	LAYER 1 100%	Quartz Calcium Carbonate Binder/Filler	20% 65% 15%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected
1938107-002 02	NE East Locker Room Mortar Base under Ceramic Tile, White, Homogeneous	LAYER 1 100%	Quartz Calcium Carbonate Binder/Filler	20% 65% 15%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected
1938107-003 03	SE West Locker Room Mortar Base under Ceramic Tile, White, Homogeneous	LAYER 1 100%	Quartz Calcium Carbonate Binder/Filler	20% 65% 15%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected
1938107-004 04	SW West Locker Room Grout between Tile (Ceramic), Beige, Homogeneous	LAYER 1 100%	Quartz Calcium Carbonate Binder/Filler	5% 85% 10%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected
1938107-005 05	SE East Locker Room Grout between Tile (Ceramic), Beige, Homogeneous	LAYER 1 100%	Quartz Calcium Carbonate Binder/Filler	5% 85% 10%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected



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Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1938107-006 06	East Center East Locker Room Grout between Tile (Ceramic), Beige, Homogeneous	LAYER 1 100%	Quartz Calcium Carbonate Binder/Filler	5% 85% 10%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected
1938107-007 07	West Center West Locker Room Caulk Base (Sink), White, Homogeneous	LAYER 1 100%	Binder/Filler	100%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected
1938107-008 08	South Center East Locker Room Caulk Base (Sink), White, Homogeneous	LAYER 1 100%	Binder/Filler	100%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected
1938107-009 09	South Center West Locker Room Caulk Base (Sink), White, Homogeneous	LAYER 1 100%	Binder/Filler	100%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected
1938107-010 10	Center West Locker Room Anti-Slip Spray On Surface Material (Floor), Gray, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected
1938107-011 11	NW West Locker Room Anti-Slip Spray On Surface Material (Floor), Gray, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected



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Test Report

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1938107-012 12	SE East Locker Room Anti-Slip Spray On Surface Material (Floor), Gray, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos: No Asbestos Detected	
1938107-013 13	North Center of Entrance Caulk on Exterior near Wood, Gray/Tan, Non-homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos: No Asbestos Detected	
1938107-014 14	North West of Entrance Caulk on Exterior near Wood, Gray/Tan, Non-homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos: No Asbestos Detected	
1938107-015 15	SW of Exit to Pool Caulk on Exterior near Wood, Gray/Tan, Non-homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos: No Asbestos Detected	
1938107-016 16	So Ctr E Locker Ceiling Plaster, White/ Gray, Non- homogeneous	LAYER 1 100%	Quartz Calcium Carbonate Binder/Filler	40% 35% 25%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos: No Asbestos Detected	
1938107-017 17	No Ctr E Locker Ceiling Plaster, White/Beige/ Gray, Non-homogeneous	LAYER 1 100%	Quartz Calcium Carbonate Binder/Filler	40% 40% 20%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos: No Asbestos Detected	



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Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1938107-018 18	W Ctr Breezeway Ceiling Plaster, White/ Gray, Non-homogeneous	LAYER 1 100%	Quartz Calcium Carbonate Binder/Filler	45% 35% 20%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected
1938107-019 19	W Locker Room SW Mirror Mastic, Black, Homogeneous	LAYER 1 100%	Cellulose Fiber Bituminous Matrix	20% 80%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected
1938107-020 20	E Locker Room SW Mirror Mastic, Black, Homogeneous	LAYER 1 100%	Cellulose Fiber Bituminous Matrix	20% 80%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected
1938107-021 21	SW Locker Room Mirror Mastic, Black, Homogeneous	LAYER 1 100%	Cellulose Fiber Bituminous Matrix	20% 80%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected
1938107-022 22	SW Mastic on Penetrations, Gray/ Black, Homogeneous	LAYER 1 100%	Bituminous Matrix/Filler	92%	Chrysotile	8%
Asbestos Present: Yes		Total % Non-Asbestos:		92.0%	Total %Asbestos:	8.0%
1938107-023 23	South Ctr Mastic on Penetrations, Gray/ Black, Homogeneous	LAYER 1 100%	Bituminous Matrix/Filler	92%	Chrysotile	8%
Asbestos Present: Yes		Total % Non-Asbestos:		92.0%	Total %Asbestos:	8.0%
1938107-024 24	East Ctr Mastic on Penetrations, Gray/ Black, Homogeneous	LAYER 1 100%	Bituminous Matrix/Filler	92%	Chrysotile	8%
Asbestos Present: Yes		Total % Non-Asbestos:		92.0%	Total %Asbestos:	8.0%



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Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116
Determination of Asbestos in Bulk Building Materials.

Project Number 19-CGAR.01

Project Name City of Gardena

Location Gardena- Primm Pool

PO Number

WO Number

Date Sampled 12/05/2019

Sampled By Cesar Ruvalcaba/Nicky Guttiere

Total Samples 28

Test Report

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1938107-025 25	SW Gravel Base Roof, Gray/ Black, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Quartz/Gravel Bituminous Matrix	20% 20% 60%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected
1938107-026 26	Ctr Gravel Base Roof, Gray/ Black, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Quartz/Gravel Bituminous Matrix	25% 25% 50%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected
1938107-027 27	NE Gravel Base Roof, Gray/Beige Black, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Quartz/Gravel Bituminous Matrix	25% 35% 40%	None Detected	
Asbestos Present: No		Total % Non-Asbestos:		100.0%	Total %Asbestos:	No Asbestos Detected
1938107-028 28	South Ctr 4in Transite Pipe, Lt. Gray, Homogeneous	LAYER 1 100%	Binder/Filler	82%	Chrysotile Crocidolite	15% 3%
Asbestos Present: Yes		Total % Non-Asbestos:		82.0%	Total %Asbestos:	18.0%

Method Detection Limit: Less than one percent (<1%). Asbestos content has been determined using calibrated visual estimation (CVES). Samples tested were received in acceptable condition unless otherwise stated. Test report relates only to items tested. Non-homogeneous samples containing discrete and separable layers are analyzed and reported separately; composite results may be reported upon customer's request. Non-homogeneous samples with inseparable layers are analyzed and reported as composite samples. Due to the limitations of Polarized Light Microscopy, samples reported as None Detected or with low asbestos concentrations may not be reliable and further analysis such as TEM is recommended to confirm PLM results. This report shall not be reproduced except in full without the written approval of this laboratory. This report may not be used by the customer to claim product certification, endorsement, or approval by NIST/NVLAP or any agency of the government. Samples shall be disposed according to local, state and federal laws, 30 days after results are reported unless otherwise instructed.

CA-ELAP #2823

Analyst - Cristina Tabatt

Approved Signatory Cristina E. Tabatt



NVLAP Lab Code 500044-0



1938107 5-day turnaround

BULK SAMPLE INVENTORY AND COC-ASBESTOS

Client: City of Gardena Project Name: City of Gardena - Primm Pool

Location: Gardena - Primm Pool Project Number: 19-002.01 SWO#

Inspector: Leslie Duvall / Nicky Gutierrez-Montano Date: 12/05/19

Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition
01	white ceramic tile	South Center West Locker Room	West & East Locker Room	950 sq. ft.	yes	damaged
02	marble base	NE East Locker Room				
03	under ceramic tile	SE West Locker Room				
04	grout between tile	SW West Locker Room	West & East Locker Room	450 sq. ft.	no	damaged
05	(ceramic)	SE East Locker Room				
06	-	East Center East Locker Room				
07	Grout base (Sink)	West Center West Locker Room	West & East Locker Room	20 sq. ft.	no	good
08		South Center East Locker Room	West & East Locker Room			
09		South Center West Locker Room				
10	Anti-slip spray on	Center West Locker Room	West & East Locker Room	8 sq. ft.	yes	intact
11	surface material	NE West Locker Room				
12	(Floor)	SE East Locker Room				
13	Grout base on Exterior	North Center of Entrance	Entrances of Primm Pool	30 sq. ft.	no	intact
14	marble	North West of Entrance				
15	-	SW at Exit to Pool				

CHAIN OF CUSTODY

Relinquished by: [Signature] Date and Time: 12/5/19 11:22

Received by: [Signature]



CES
ENVIRONMENTAL CONSULTANTS

1938107

5-day turnaround

BULK SAMPLE INVENTORY AND COC-ASBESTOS

Client: City of Gardena Project Name: City of Gardena - Primm Pool

Location: Gardena - Primm Pool Project Number: 19-06-AR-01 SWO#

Inspector: Lesar Duran/Calvin Nisley/Anthony R. Moreno Date: 12/05/19

Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition
16	ceiling plaster	SW str 4th Locker	E Locker Room/Driveway	600 sq. ft.	yes	damaged
17		North Locker				
18		North Driveway				
19	Mirror Mastic	W Locker Room SW	E/W Locker Room	10 sq. ft.	yes	intact
20		E Locker Room SHLHr				
21		SW Locker Room				
22	gray mastic on partitions	SW	Roof	20 sq. ft.	yes	intact
23		SHLHr				
24		East Ltr				
25	general base coat	SW	Roof	1500 sq. ft.	yes	damaged
26		Ltr				
27		NE				
28	thin transit pipe	South Ltr.	Roof	5 sq. ft.	no	intact

CHAIN OF CUSTODY

Relinquished by: Anthony R. Moreno

Date and Time: _____

Received by: Jeffery

Date and Time: 12/5/19 11:22

APPENDIX B:

**Lead Paint Chip Laboratory Analysis / Chain of Custody /
CDPH Form 8552**



1508 East 33rd Street
Signal Hill, CA 90755
Tel (562) 206-2770
Fax (562) 206-2773

CES Environmental Consultants
10120 Washington Avenue
South Gate, CA 90280
Attn: Cesar Ruvalcaba

Project Number: 19.CGAR.01
Project Name: City of Gardena
Location: Primm Park

Report Number: 1938076

Date Received: 12/5/2019
Date Analyzed: 12/12/2019
Date Reported: 12/12/2019

Date Sampled: 12/5/2019
Sampled By: Cesar Ruvalcaba
Total Samples: 17

Analytical Method: EPA 7420/3050
Reporting Limit: 5.0 µg

Lead (Pb) in Paint by Flame AAS

Lab ID Client ID	Location/Description	Sample Weight (g)	Lead Concentration ppm (mg/kg)
1938076-001 LP01	Wall/Block/Gray- Exterior- No. Ctr.	0.1001	< 50
1938076-002 LP02	Fascia/Wood/Blue- Exterior- No. Ctr.	0.1030	400
1938076-003 LP03	Wall/Wood/Gray- Exterior- East of Entry North	0.1047	< 48
1938076-004 LP04	Window Screen/Metal/Gray- Exterior No. Ctr.	0.1006	< 50
1938076-005 LP05	Window Casing/Wood/Gray- East Locker, NE	0.1063	2800
1938076-006 LP06	Soffit Ceiling/Wood/Gray- Exterior- No. Ctr.	0.1066	360
1938076-007 LP07	Wall/Block/Blue- Exterior- SE	0.1056	< 47
1938076-008 LP08	Wall/Wood/Blue- Breezeway- Ctr.	0.0702	< 71
1938076-009 LP09	Wall Trim/Wood/Dk. Blue- Breezeway- Ctr.	0.1002	< 50
1938076-010 LP10	Wall/Block/Beige- Heater Closet- NE	0.1003	690
1938076-011 LP11	Wall/Block/White- East Locker, So. Ctr.	0.1001	60
1938076-012 LP12	Ceiling/Wood/White- West Lockers- Center	0.1024	3400



1508 East 33rd Street
Signal Hill, CA 90755
Tel (562) 206-2770
Fax (562) 206-2773

Report Number: 1938076

CES Environmental Consultants
10120 Washington Avenue
South Gate, CA 90280
Attn: Cesar Ruvalcaba

Project Number: 19.CGAR.01
Project Name: City of Gardena
Location: Primm Park

Lead in Paint by Flame AAS

Lab ID Client ID	Location/Description	Sample Weight (g)	Lead Concentration ppm (mg/kg)
1938076-013 LP14	Ceiling/Wood/White- West Lockers- Center	0.1043	89
1938076-014 LP15	Wall/Concrete- White- West Lockers, SW	0.1001	< 50
1938076-015 LP16	Door Casing/Blue/Wood- East Lockers- West Side	0.1061	< 47
1938076-016 LP17	Ceiling/Plaster/White- West Lockers- West Side	0.1018	670
1938076-017 LP18	Floor/Concrete/Gray- East Lockers- West Side	0.0803	81

Samples tested were received in acceptable condition unless otherwise stated. Test report relates only to items tested. This report shall not be reproduced without the written approval of this laboratory. The client shall be solely responsible for interpreting analytical results. Samples have not been blank corrected. Samples shall be disposed according to local, state and federal laws, 30 days after reporting results.

CA ELAP Cert #2823

Approved Signatory- Cristina E. Tabatt

1938076



5 Day TAT

BULK SAMPLE INVENTORY AND COC-LEAD PAINT CHIPS

Client: City of Gardens Project Name: Primer Fork

Location: 19 CGAR. 01 Project Number: SWO#

Inspector: Qeser Ruvencob Date: 12/5/19

Sample #	Component/Substrate/Color	Sample Location	Component Location	Est. Qty	Condition
LP01	wall/black/gray	Exterior-No. Chr	Exterior-Walks	N/A	Intact
LP02	Fascia/wood/blue	Exterior-No. Chr	All sides of bldg		
LP03	wall/wood/gray	Exterior-East City Walks	Exterior-Walks		
LP04	Window screen/metal/gray	Exterior No. Chr	Exterior-Walks		
LP05	Window casing/wood/gray	Post Locker, NE	All Exterior Walks		
LP06	Window casing/wood/gray	Exterior-No. Chr	Exterior Walks		
LP07	wall/black/blue	Exterior-SE	Exterior Santa, West	3,000's	Damaged
LP08	wall/wood/blue	Brooklyn g. Chr	Exterior brooklyn g	N/A	Intact
LP09	wall/wood/dk blue	Brooklyn, chr			
LP10	WGA/black beige	Heater closet-NE	Heater closet		

CHAIN OF CUSTODY

Relinquished by: [Signature] Date and Time: 12/5/19

Received by: [Signature] Date and Time: 12/5/19 11:22

1938070



BULK SAMPLE INVENTORY AND COC-LEAD PAINT CHIPS

5 day TAT

Client

City of Gardenia

Project Name:

Primus Park

Location:

Project Number 19-CGAP-01 SWO#

Inspector:

Oscar Ruvalcaba

Date:

12/5/19

Sample #	Component/Substrate/Color	Sample Location	Component Location	Est. Qty	Condition
LP11	Block/ black/white	Post Locker, So. City	Post 1 west locker	N/A	intact
LP12	ceiling/wood/white	West lockers-center	west locker		
LP13	wall/ceramic/white		West lockers,		
LP14	wall/concrete/white	West lockers, SW	West lockers		
LP15	Door casing/blue/wood	East lockers-west	Post 1 west locker		
LP16	Door/wood/blue	West locker-east	Post 1 west locker		
LP17	ceiling/plaster/white	West lockers-west	East locker		
LP18	Floor/concrete/gray	East locker-west	Post 1 west lockers		
LP19	Floor/ceramic/white		Post 1 west locker		intact

CHAIN OF CUSTODY

Relinquished by:

Date and Time:

12/5/19

Received by:

Date and Time:

12/5/19 11:22

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation 12/5/19

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

☒ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☐ Other (specify) limited for construction purposes

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)] 1650 West 160th St. (Pool Bldg)		City Gardena	County Los Angeles	Zip Code 90247
Construction date (year) of structure	Type of structure <input type="checkbox"/> Multi-unit building <input type="checkbox"/> School or daycare <input type="checkbox"/> Single family dwelling <input checked="" type="checkbox"/> Other _____		Children living in structure? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Don't Know	


Section 4 — Owner of Structure (If business/agency, list contact person)

Name City of Gardena		Telephone number	
Address [number, street, apartment (if applicable)] 1717 West 162nd Street		City Gardena	State CA
			Zip Code 90247

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

☒ No lead-based paint detected ☐ Intact lead-based paint detected ☐ Deteriorated lead-based paint detected
☐ No lead hazards detected ☐ Lead-contaminated dust found ☐ Lead-contaminated soil found ☐ Other _____

Section 6 — Individual Conducting Lead Hazard Evaluation

Name Cesar Ruvalcaba		Telephone number 323-899-4488	
Address [number, street, apartment (if applicable)] 10120 Washington Avenue		City South Gate	State CA
			Zip Code 90280
CDPH certification number 16855	Signature 		Date 12/5/19
Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)			

Section 7 — Attachments

- A. A foundation diagram or sketch of the structure indicating the specific locations of each lead hazard or presence of lead-based paint;
- B. Each testing method, device, and sampling procedure used;
- C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector
Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:
California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656

CDPH 8032 (Rev.)

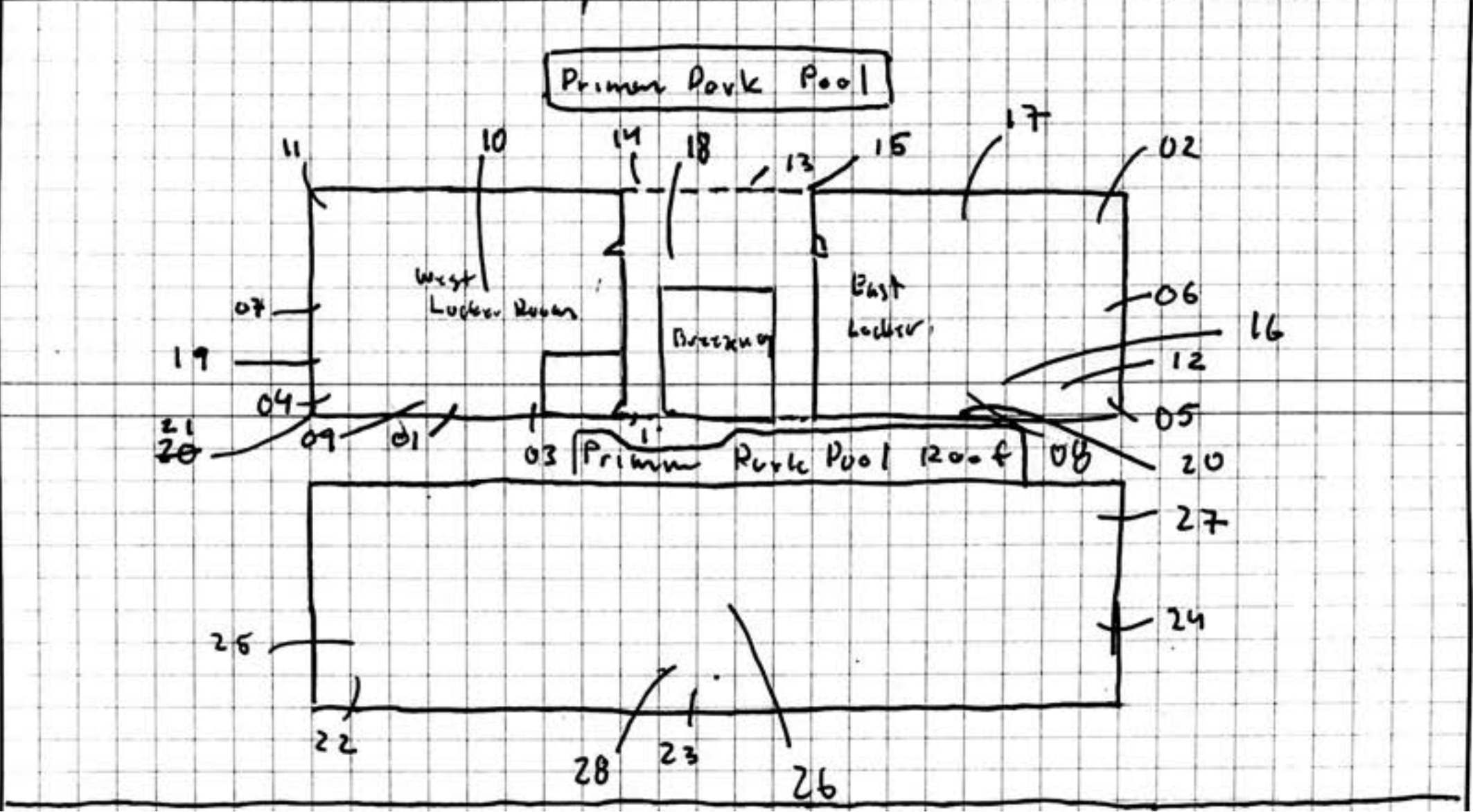
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Scanned with CamScanner

APPENDIX C:

Sample Diagram

Location:	City of Gardena - Primus Park Pool / Rowley Park R12 (D1)
Project Number:	19-66AD.01
Date:	12/05/19
Inspector:	Jesus Rivalcaba / Nicky Gutierrez-Moreno



APPENDIX D:
Inspector Certifications

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Cesar Ruvalcaba

Name



Certification No. **95-1799**

Expires on **10/27/20**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7182 et seq. of the Business and Professions Code.

State of California Department of Public Health

Lead-Related Construction Certificate

Certificate Type

Expiration Date

Inspector/Assessor 01/16/2020

Project Monitor 01/16/2020



Cesar A. Ruvalcaba ID #: 6855



August 12, 2021

Mr. Kevin Kwak
City of Gardena
1717 West 162nd Street
Gardena, California 90247

RE: Asbestos and Lead Survey

City of Gardena
16004 South Harvard Boulevard (Units A-D and Garages)
Gardena, California 90247

CES Project No.: 21-CGAR.05

Dear Mr. Kwak:

At the request of the City of Gardena, CES Environmental Consultants, Inc. (CES) completed an asbestos and lead survey at 16004 South Harvard Blvd in Gardena, California 90247. The survey was conducted on July 19, 2021.

The survey was conducted to identify asbestos-containing materials (ACM) and lead in paint.

Summary of Findings:

- Asbestos-containing materials (ACMs) were identified. Refer to Section 5 (Table I) in this report for a summary of ACMs.
- Lead-based paint (LBP) was identified. Refer to Section 6 (Table II) in this report for a summary of LBP.
- Lead-containing paint (LCP). All other paints samples analyzed were reported with detectable levels of lead.

If you have any questions concerning the report, please contact our office.

This report was prepared by:

Fabian Rubalcaba
Certified Asbestos Consultant (CAC 15-5533)
CDPH Lead Inspector/Assessor
CES Environmental Consultants, Inc.
6741 Friends Avenue, Suite B
Whittier, California 90280
(562) 693-3055
fabian.ruvalcaba@cesenviron.com



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Appendices

Appendix A: Bulk Sample Inventory -Asbestos
Appendix B: Bulk Samples, Analytical Data and Chain of Custody-Asbestos
Appendix C: Bulk Paint Inventory – Lead Paint Chips
Appendix D: Analytical Data, Chain of Custody, XRF Report and CDPH Form 8552-Lead in Paint
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Appendix G: Inspector Certifications

1.0 PROJECT INFORMATION

City of Gardena
16004 South Harvard Boulevard (Units A-D and Garages)
Gardena, California 90247

2.0 INTRODUCTION AND BACKGROUND

CES Environmental Consultants (CES) conducted an Asbestos and Lead in Paint Survey at 16004 South Harvard Blvd in Gardena, California 90247 at the request of the City of Gardena.

3.0 SUBJECT SITE, AREA DESCRIPTION, MATERIAL CONDITIONS

The location of the property is 16004 South Harvard in the City of Gardena, California. The property is a semi-two (2) story apartment building with four (4) unit apartments and a separate detached structure garage building. At the time of the survey, the buildings were vacant. There were no obvious signs of structural or fire damaged observed at the time of the survey. The survey included all accessible areas of the building including floors, walls, ceilings, crawlspaces and attic spaces if available.

4.0 PROJECT SURVEY

CES representatives, Mr. Fabian Ruvalcaba a Cal-OSHA Certified Asbestos Consultant (CAC No.: 15-5533) and Nicky Gutierrez-Moreno an EPA Accredited Asbestos Building Inspector conducted the survey and sampling. Mr. Gutierrez-Moreno performed most of the lead survey work and assisted with mostly clerical type work for the asbestos survey. He performed all work under close supervision of Mr. Ruvalcaba.

CES's objective was to conduct a survey and sampling of suspect asbestos-containing materials (ACM) and lead in paint. The survey included the following:

- Survey of the affected areas to locate suspect ACM and lead in paint;
- Physical assessment of suspect ACM, and painted surfaces;
- Collection of bulk samples from suspect ACM materials, and painted surfaces; and
- Submitted samples collected for laboratory analysis of all ACM.

5.0 ASBESTOS SURVEY AND SAMPLING

5.1 Asbestos Laboratory Accreditation & Analytical Method

The samples were analyzed by AIH Laboratory located at 2556 West Woodland Drive, Anaheim, California 92801 (562) 860-2201 (NVLAP Code 500079-0).

Collected bulk samples were analyzed using polarized light microscopy (PLM) for asbestos content in accordance with the United States Environmental Protection Agency's (USEPA) *Determination of Asbestos in Bulk Building Materials: EPA/600/R-93/116, July 1993.*

5.2 Asbestos Sampling Protocol

The sampling was conducted using guidelines set forth in US Environmental Protection Agency (EPA) *Federal Register 40 CFR Part 763*. Based on the requirements of the EPA, (*40 CFR 763*), a homogeneous material is defined as “an area of surfacing material, thermal system insulation material or miscellaneous material that is uniform in color and texture.” The regulation requires that a minimum number of samples be collected from each homogeneous material. If one sample in a homogeneous material is found to contain asbestos, the entire homogeneous material should be considered to be asbestos-containing.

The EPA and California Occupational Safety and Health Administration (Cal-OSHA) have defined building materials containing asbestos as follows:

- **Asbestos-Containing-Material (ACM)** - any material containing greater than 1 percent (>1%) asbestos as determined by PLM, *40 Code of Federal Regulations (CFR) Part 61, Subpart M and The South Coast Air Quality Management District (SCAQMD) Rule 1403*.
- **Asbestos-Containing-Construction-Material (ACCM)** - any material containing less than one percent (<1%) asbestos and greater than one tenth of one percent (>0.1%) asbestos by 1000-point count analysis, *California Code of Regulations (CCR), Title 8, Section 1529*.

5.3 Asbestos Sample Results

Table I: Summary of Bulk Sample Results

Sample No.:	Material	Material Location	Asbestos Content	Condition	Friable	Est. Quantity
Not sampled	6" transite pipe	At all heater exhaust-crawlspace up to roof level- all units	*Assumed >1% Asbestos	Intact	No	60 linear feet
B-1, B-2, B-3, B-4, B-5, B-6, B-7	Plaster	Walls/ceilings in Units A, B, C, D	None Detected	Damaged	Yes	10,000 sq. ft
B-8, B-9, B-10	Texture coating	Units A-D throughout	None Detected	Damaged	No	10,000 sq. ft
B-11, B-12, B-13	White sheet vinyl flooring (2 layers)	Unit B	None Detected	Damaged	No	300 sq. ft.
B-14, B-15, B-16	White sheet vinyl flooring	Unit C	None Detected	Damaged	No	10 sq. ft
B-17, B-18, B-19, B-20	Texture coating	Units A-D throughout	None Detected	Damaged	No	10,000 sq. ft
B-21, B-22, B-23	Wood-like sheet vinyl flooring	Unit C Throughout	None Detected	Damaged	No	1,000 sq. ft
B-24, B-25, B-26	Button board	Units A, B, C, D, behind plaster	None Detected	Damaged	Yes	10,000 sq. ft
B-27, B-28, B-29	Wood-Like sheet vinyl flooring (3 layers)	Living Room, Restroom, Bedrooms in Unit A	2% Chrysotile-Red floor tile	Intact	No	750 sq. ft

Sample No.:	Material	Material Location	Asbestos Content	Condition	Friable	Est. Quantity
B-30, B-31, B-32	4" grey baseboard with glue	Kitchen Unit A	30% Chrysotile-Grey fibrous backing, Glue-None Detected	Intact	No	30 In. ft
B-33, B-34, B-35	Beige sheet vinyl floor (3 layers)	Kitchen Unit A	None Detected	Damaged	No	100 sq. ft
B-36, B-37, B-38	Barrier paper	Main building- exterior behind stucco	None Detected	Intact	Yes	4,200 sq. ft
B-39, B-40, B-41	Barrier paper	Garage exterior behind stucco	None Detected	Intact	Yes	600 sq. ft
B-42, B-43, B-44, B-45, B-46, B-47, B-48	Stucco	Main building- exterior walls/ceilings	None Detected	Intact	No	4,200 sq. ft
B-49, B-50, B-51	Stucco	Garage- exterior walls/ceilings	**<0.1% Asbestos by 1000 pt. count	Intact	No	600 sq. ft
B-52, B-53, B-54	Grey roof mastic	Roof, penetrations, curbs	None Detected	Intact	No	20 sq. ft
B-55, B-56, B-57	Black cap sheet roof core	Main building	None Detected	Intact	No	3,000 sq. ft
B-58, B-59, B-60	Brown cap sheet roof core (top layer)	Garage	None Detected	Intact	No	600 sq. ft
B-61, B-62, B-63	Brown cap sheet roof core (bottom layer)	Garage	None Detected	Intact	No	600 sq. ft

**Fabian Ruvalcaba, a Cal OSHA Certified Asbestos Consultant is assuming that these materials contain asbestos greater than one percent (>1%) and is subject to the South Coast Air Quality Management District, Rule 1403, based on experience with similar materials, previous sampling, and in lieu of redundant sampling.*

***For materials reported below the Cal-OSHA asbestos regulated level of less than <0.1% by 1,000-point count analysis, the laboratory reported "Asbestos fibers were observed in the field of view but not counted as points". Although the results are reported to be below the Cal-OSHA regulated level of <0.1% but considering that asbestos fibers were observed by the laboratory, and in an abundance of caution, CES recommends that any work activities which disturbs the material be conducted using appropriate worker protection and engineering controls.*

5.4 Asbestos Recommendations

Removal of ACMs should be conducted by a licensed asbestos abatement Contractor utilizing isolation control methods and dispose of properly. Workers handling ACMs shall be asbestos trained and shall wear the appropriate personal protective equipment.

The USEPA (locally enforced by South Coast Air Quality Management District (SCAQMD)) requires that all asbestos materials be removed prior to any renovation or demolition activities that may impact the material. The USEPA recommends that a proactive, in-place management program be put in place whenever asbestos is discovered in a building. Asbestos materials that are not damaged may be managed in place with a good operations and maintenance (O&M) program.

A review of all other asbestos survey information available for the property in conjunction with these results should be conducted prior to proceeding with any project activities and/or when a change in the project scope is developed. If suspect asbestos-containing materials will be impacted that are not addressed in this survey or in the historical survey records, additional sampling should be conducted prior to disturbance. Historical records, typically, have limited value for project planning and should be verified with confirmatory inspection and additional sampling as necessary prior to project planning.

Materials may be impacted by age, wind/water damage, mechanical abrasion, and maintenance, renovation & demolition activities. As such, all identified (including presumed ACMs) should be periodically inspected to verify that they remain in good condition. If the identified ACMs change in condition, CES recommends that a Certified Asbestos Consultant conducts an assessment of the change in condition and provide appropriate actions to repair, enclose, remove or encapsulate the ACMs per current regulatory requirements.

At the time of the survey, the building areas were vacant. CES was able to perform a destructive investigation, but concealed conditions may exist. Additional suspect materials could be located between walls, in voids, or in other concealed areas which may have been inaccessible at the time of the survey. A survey below soil was not included in our scope of work. If any suspect materials or painted surfaces are found which have not been represented in this report, CES recommends that work stops until those materials can be sampled for asbestos and/or lead content.

6.0 LEAD SURVEY AND SAMPLING

CES conducted sampling for lead by using on-site XRF analysis and collection of bulk paint chip samples. For the purpose of this survey and inspection, lead in paint is defined as described below:

- **Lead-Based Paint (LBP)**, according to the California Childhood Lead Poisoning Prevention Branch regulations (Title 17, Division 1, Chapter 8), US Environmental Protection Agency (EPA), and US Department of Housing and Urban Development (HUD) is defined as paint or other surface coating with lead content equal to or greater than 1.0 mg/cm² of surface area using X-Ray Fluorescence (XRF) testing or 5,000 parts per million (ppm) (0.5 percent by weight) by paint chip analysis. The County of Los Angeles Department of Public Health Services, Childhood Lead Poisoning Prevention Program, has defined “dangerous levels of lead-bearing substances” as paint or other surface coating with lead content greater than 0.7 mg/cm² (Los Angeles County). Lead related work impacting LBP is subject to the requirements of all the above-mentioned regulations, furthermore, when disturbed for construction purposes, the work is also subject to the Cal/OSHA *Title 8 CCR, Section 1532.1(d) requirements*.
- **Lead-Containing Paints (LCP)** according to Cal/OSHA *Title 8 CCR, Section 1532.1(d)* are defined as paints reported with any detectable levels of lead by paint chip analysis, this may include lead paint samples reported by the laboratory below the laboratory

“Reporting Limit” (RL). Employer who has a workplace or operation covered by this standard shall initially determine if any employee may be exposed to lead at or above the action level. The employer shall assure that no employee is exposed to lead at concentrations greater than fifty micrograms per cubic meter of air (50µg/m³) averaged over an 8-hour period.

6.1 Lead Paint Chip Sampling Protocol

CES conducted an assessment and collected testing by XRF and bulk paint chip samples of representative accessible painted surfaces observed in the areas included in our scope of work.

Representative painted surfaces were preliminary screened for lead-based paint using a portable XRF spectrum analyzer (Thermo Niton XLp 300). Field calibration checks were performed prior, during and after each XRF lead inspection to determine that the device was functioning within acceptable limits (tolerance) determined by the manufacturer. Three readings of a red 1.04 mg/cm² Standard Reference Material (SRM) paint film, developed by the ThermoFisher Scientific were collected. The XRF unit was determined to be functioning within proper operating parameters for this project.

Following the XRF screening, confirmation paint chip samples were also collected to determine the weight percent concentration in the painted surfaces for construction safety as defined by Title 8 CCR Section 1532.1. Paint chip samples analysis was conducted as per EPA Method SW846/7420 by a laboratory accredited by the Environmental Laboratory Accreditation Program.

Survey consisted of the following:

- Visual assessment of painted surfaces
- On-site direct reading analysis of suspect lead coated surfaces and paints
- Collection of bulk paint chip samples down to the substrate
- Documentation of the physical condition and location of suspect materials
- Submitting bulk paint chip samples to a laboratory for analysis on lead content
- Preparing a report of findings and conclusions.

6.2 LEAD-BASED PAINT USING XRF TESTING

Table II: LEAD BASED PAINT FINDINGS

Sample No.	Color	Substrate	Component	Location	Level of Lead (ppm)	Condition
Lead-Based Paint using XRF testing						
80	White	Plaster	Wall	Unit C -kitchen	0.17 mg/cm ²	Intact
81	White	Wood	Cabinet	Unit C -kitchen	0.8 mg/cm ²	Intact
83	White	Wood	Door	Unit C -kitchen	1.9 mg/cm ²	Intact
84	White	Wood	Door case	Unit C -kitchen	1.1 mg/cm ²	Intact
88	White	Wood	Window case	Unit C -kitchen	1.8 mg/cm ²	Intact
94	White	Ceramic	Tub	Unit A- restroom	4.56 mg/cm ²	Intact
95	Pink	Ceramic	Floor	Unit A- restroom	8.5 mg/cm ²	Intact
96	White	Wood	Door	Unit A- living room	2.6 mg/cm ²	Intact
97	White	Wood	Door case	Unit A- living room	2.5 mg/cm ²	Intact
98	White	Wood	Window case	Unit A – B1	2.7 mg/cm ²	Intact
99	White	Wood	Wall trim	Unit A – B1	2.7 mg/cm ²	Intact
100	White	Wood	cabinet	Unit A- kitchen	2.6 mg/cm ²	Intact
103	Grey	Wood	Window case	Exterior	2.6 mg/cm ²	Damaged
104	Blue	Wood	Door case	Exterior	2.9 mg/cm ²	Intact
105	Grey	Wood	Door	Exterior	1.6 mg/cm ²	Intact
106	Blue	Wood	Support	Exterior	1.6 mg/cm ²	Intact
107	Grey/blue	Wood	Eve	Exterior	1.9 mg/cm ²	Intact
112	Grey	Wood	Handrail	Exterior	1.2 mg/cm ²	Intact
113	Grey	Wood	Stairway	Exterior	2.3 mg/cm ²	Intact
114	Grey	Wood	Handrail	Exterior	0.7 mg/cm ²	Intact
Lead-based Paint by Paint Chip Sampling						
PC-12	Grey	Wood	Garage door case	Exterior garage door	16,977 ppm	Intact

Table III *

Results representative of paint chip sampling

Sample No.	Color	Substrate	Component	Location	Level of Lead (ppm)	Condition
Refer to Appendix E in this report for a complete listing of identified LCP. CES recommends that all paints including paints which may not be listed in Appendix E be handled as a LCP. LCP, according to Cal/OSHA Title 8 CCR, Section						

1532.1(d) are defined as paints reported with any detectable levels of lead by paint chip analysis. When disturbed for construction purposes, these surfaces are subject to Cal/OSHA exposure assessment requirements.

6.4 Lead Recommendations

Lead-based paint (LBP) and lead-containing paint (LCP) listed in Tables II and III above, for construction purposes, workers who disturb surfaces with LBP, or LCP are subject to regulation under *Title 8 CCR, Section 1532.1 (d)*. Employer who has a workplace or operation covered by this standard shall initially determine if any employee may be exposed to lead at or above the action level. The employer shall assure that no employee is exposed to lead at concentrations greater than fifty micrograms per cubic meter of air (50µg/m³) averaged over an 8-hour period. If the exposure levels are likely or exceed the Permissible Exposure levels (PEL), or if a Lead Abatement Hazard is being conducted, the work may also be subject to the California Childhood Lead Poisoning Prevention Branch regulations (Title 17, Division 1, Chapter 8) which requires certifications of workers and project supervisors.

CES recommends that engineering controls, respiratory protection and personal protective equipment be used at the start of any project that disturbs painted surfaces until compliance with 1532.1 can be documented through the use of representative air sampling data.

6.6 Lead Waste Disposal

For painted surfaces reported as lead based and/or containing paints listed in Tables II and III above, waste characterization sampling will be required prior to waste disposal. The waste shall be segregated into separate waste streams. A sufficient number of samples should be collected to adequately characterize the waste stream. Sample analysis will include at a minimum, Total Threshold Limit Concentration (TTLC), Soluble Threshold Limit Concentration (STLC) and Toxicity Characteristic Leaching Procedure (TCLP) to determine if waste is non-hazardous, RCRA or California hazardous waste in accordance with regulations in the state of California.

7.0 LIMITATIONS

The South Coast Air Quality Management District requires that a current asbestos survey be conducted on any building where renovations or demolition will occur regardless of the date of construction.

The intent of this survey was to identify accessible ACM, LBP, and LCP.

The survey is intended to be used for construction purposes only. The user of this report shall verify any discrepancy which may be discovered during the project regarding the results listed Table I, II and III in this report and comparing them to the laboratory results found in Appendix B and D.

CES conducted the survey with the standard of care ordinarily exercised by qualified and reputable members of the environmental/industrial hygiene profession based on conditions and practices observed at the property and information provided to CES related to the project and/or

purpose of the survey at the time of the investigation. Although the survey was comprehensive there may be areas and materials which may have been inaccessible at the time of the survey. If any materials are discovered during the project which are not included in this report, the work should stop and a survey of those areas and materials should be conducted prior to any renovation, maintenance, demolition, or other activity that may cause disturbance to the materials.

This report does not intend to identify all hazards or unsafe practices, nor to indicate that other hazards or unsafe conditions have been identified. As such, CES does not guarantee or warrant that the facility or workplace is safe; nor does CES's involvement in this property relieve the Client, building owner/operator or tenant of any continuing responsibility of providing a safe facility or living space.

CES has applied our best effort to locate all suspect ACMs, LBP, and LCP in the areas included in our survey scope of work.

Below floor slabs areas or other areas determined by CES's personnel as unsafe to access, were not included in this survey scope of work.

CES interpreted the results provided by the laboratory analysis and compared the results to the relevant regulatory levels. We have relied on the laboratory to conduct the quality controls required for the analysis, as required to maintain their accreditation. It is our understanding that the laboratory QA/QC limits were within the acceptable levels for the samples analyzed.

The analyzing laboratory quantifies asbestos concentrations by calibrated visual estimation using standard PLM methodology, with detection of asbestos is material/matrix dependent. Detection of trace asbestos (<1%) may not be reliable or reproducible by PLM and percentage of asbestos weight cannot be determined with standard PLM methodology. Confirmation of asbestos concentrations within complex matrices (i.e. plaster, gypsum wallboard/taping/joint compounds, stucco, resilient flooring, roofing) or when asbestos concentrations are 1% or less may warrant additional analysis by PLM point counting, gravimetric reduction or Transmission Electron Microscopy for proper characterization of asbestos-containing materials and/or waste-stream analysis.

We will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report, expressed or implied.

CES does not guarantee or warrant that the facility or workplace is safe; nor does CES's involvement in this property relieve the Client, building owner/operator or tenant of any continuing responsibility of providing a safe facility or living space.

This report was based on those conditions observed on the day the field evaluation was accomplished. In the event that changes in the nature of the property have occurred, or additional relevant information about the property is subsequently discovered, the findings contained in this report may not be valid unless these changes and additional relevant information are reviewed, and the conclusion of this report is modified and verified in writing.

Material quantities included in this report are of observed material and provided as a best estimate for information only and shall not be used as a reliable quantity by any contractor for preparing removal bids. The Contractor shall be solely responsible for assessing the type,

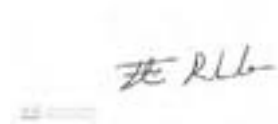
extent, and quantity of material to be removed in each area of the project in preparing each project bid.

The property owner is responsible for ensuring that the information, conclusions, and recommendations disclosed in this report are brought to the attention of all appropriate staff, contractors, regulatory agencies etc. as required.

CES excluded sampling of wood, metal, concrete, asphalt paving, ceramic materials on walls and floors. Based on industry practices and standardized sampling protocols, these materials are not known to contain asbestos and, therefore, not considered to be suspect asbestos-containing materials for this survey.

If you have any questions or concerns, feel free to contact the undersigned at the number listed below.

This report was prepared by:



Fabian Ruvalcaba
Project Manager
CES Environmental Consultants, Inc.

This report was reviewed by:



Elmer Ivan Castro
Senior Project Manager
CES Environmental Consultants, Inc.

APPENDIX A:
BULK SAMPLE INVENTORY-ASBESTOS

Site: 16004 So. Harvard Ave Gardena, CA
Inspector: Fabian Ruvalcaba / Nicky Gutierrez-Moreno
Project Location: 16004 S. Harvard Ave. Gardena, CA

Bulk Sample Inventory

Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition	Result
July 19, 2021							
B-1	Plaster	Unit C- Bedroom 1 North West	Walls/ ceilings in Units A, B, C, D	10,000 sq. ft.	Yes	Damaged	None Detected
B-2		Unit C- Bedroom 2 North East					None Detected
B-3		Unit B- Bedroom 2 North West					None Detected
B-4		Unit A- Living Room North East					None Detected
B-5		Unit A- Restroom South West					None Detected
B-6		Unit D- Living Room South East					None Detected
B-7		Unit D- Kitchen South West					None Detected
B-8	Texture Coating	Unit C- Living Room West Center	Units A-D throughout	10,000 sq. ft.	No	Damaged	None Detected
B-9		Unit A- Living Room East Center					None Detected
B-10		Unit B- Bedroom 1 West Center					None Detected
B-11	White sheet vinyl flooring (2 layers)	Unit B- Living Room North East	Unit B	300 sq. ft.	No	Damaged	None Detected
B-12		Unit B- Living Room- South West					None Detected
B-13		Unit B- Kitchen North Center					None Detected
B-14	White sheet vinyl flooring	Unit C- Hallway West Center	Unit C	10 sq. ft.	No	Damaged	None Detected
B-15		Unit C- Hallway West Center					None Detected
B-16		Unit C- Hallway West Center					None Detected

Bulk Sample Inventory

Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition	Result
B-17	Textured Coating	Unit B- Living Room West Center	Units A-D throughout	10,000 sq. ft.	No	Damaged	None Detected
B-18		Unit B- Bedroom 1 North Center					None Detected
B-19		Unit D- Kitchen North West					None Detected
B-20		Unit D- Living Room South West					None Detected
B-21	Wood-like sheet vinyl flooring	Unit C- Bedroom 1 North West	Unit C throughout	1,000 sq. ft.	No	Damaged	None Detected
B-22		Unit C- Bedroom 2 North East					None Detected
B-23		Unit C- Living Room West Center					None Detected
B-24	Button board	Unit C- Bedroom 1- North West	Units A, B, C, D, behind plaster	10,000 sq. ft.	Yes	Damaged	None Detected
B-25		Unit B- Bedroom 2 North East					None Detected
B-26		Unit A- Restroom South West					None Detected
B-27	Wood-Like sheet vinyl flooring (3 layers)	Bedroom 1- North East	Living Room, Restroom, Bedrooms in Unit A	750 sq. ft.	No	Intact	2% Chrysotile- Red floor tile
B-28		Bedroom 2- South West					2% Chrysotile- Red floor tile
B-29		Restroom- North Center					2% Chrysotile- Red floor tile
B-30	4" grey baseboard with glue	Unit A- Kitchen	Kitchen Unit A	30 ln. ft.	No	Intact	30% Chrysotile- Grey fibrous backing, Glue- None Detected
B-31		Unit A- Kitchen					30% Chrysotile- Grey fibrous backing, Glue- None Detected
B-32		Unit A- Kitchen					30% Chrysotile- Grey fibrous backing, Glue- None Detected
B-33	Beige sheet vinyl floor (3 layers)	Unit A- Kitchen	Kitchen Unit A	100 sq. ft.	No	Damaged	None Detected
B-34		Unit A- Kitchen					None Detected
B-35		Unit A- Kitchen					None Detected

Bulk Sample Inventory

Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition	Result
B-36	Barrier paper	Exterior of main building- North West	Main building- exterior behind stucco	4,200 sq. ft.	Yes	Intact	None Detected
B-37		Exterior of main building- North East					None Detected
B-38		Exterior of main building- South West					None Detected
B-39	Barrier paper	Garage- North West	Garage exterior behind stucco	600 sq. ft.	Yes	Intact	None Detected
B-40		Garage- East Center					None Detected
B-41		Garage- South East					None Detected
B-42	Stucco	Exterior of main building- North West	Exterior walls/ ceilings	4,200 sq. ft.	No	Intact	None Detected
B-43		Exterior of main building- North East					None Detected
B-44		Exterior of main building- West Center					None Detected
B-45		Exterior of main building- East Center					None Detected
B-46		Exterior of main building- South West					None Detected
B-47		Exterior of main building- South East					None Detected
B-48		Exterior of main building- South Center					None Detected
B-49	Stucco	Garage- North West	Garage- exterior walls/ ceilings	600 sq. ft.	No	Intact	<0.1% Asbestos by 1000 pt. count
B-50		Garage- East Center					<0.1% Asbestos by 1000 pt. count
B-51		Garage- South Center					<0.1% Asbestos by 1000 pt. count
B-52	Grey roof mastic	Roof- North West	Roof, penetrations, curbs	20 sq. ft.	No	Intact	None Detected
B-53		Roof- South East					None Detected
B-54		Roof- Center					None Detected

Bulk Sample Inventory

Site: 16004 So. Harvard Ave Gardena, CA
Inspector: Fabian Ruvalcaba / Nicky Gutierrez-Moreno
Project Location: 16004 S. Harvard Ave. Gardena, CA

Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition	Result
B-55	Black cap sheet roof core	Main building roof- North West	Main Building	3,000 sq. ft.	No	Intact	None Detected
B-56		Main building roof- South West					None Detected
B-57		Main building roof- East Center					None Detected
B-58	Brown cap sheet roof core (top layer)	Garage Roof- North West	Garage	600 sq. ft.	No	Intact	None Detected
B-59		Garage Roof- Center					None Detected
B-60		Garage Roof- South East					None Detected
B-61	Brown cap sheet roof core (bottom layer)	Garage roof- North West	Garage	600 sq. ft.	No	Intact	None Detected
B-62		Garage roof- Center					None Detected
B-63		Garage roof- South East					None Detected

APPENDIX B:

**SUMMARY OF ASBESTOS BULK SAMPLES, ANALYTICAL DATA AND
CHAIN OF CUSTODY**



2556 W Woodland Dr Anaheim, CA 92801

BULK ASBESTOS FIBER ANALYSIS

BY POLARIZED LIGHT MICROSCOPY



Phone: (562) 860-2201

www.aihlab.com

Client Name: CES Environmental Consultants, Inc

Project Manager: Cesar Ruvalcaba

Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601

Project Number: 21-CGAR.05

Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111428

Samples Submitted: 13

Samples Analyzed: 13

Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211142801

Client ID: B-1

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White/grey loose sandy material with paint	None Detected	Cellulose <1%	Binder/Filler, Paint

Lab ID: 211142802

Client ID: B-2

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	None Detected	Cellulose <1%	Binder/Filler, Paint
2.	Grey sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 211142803

Client ID: B-3

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White/grey loose sandy material with paint	None Detected	Cellulose <1%	Binder/Filler, Paint

Lab ID: 211142804

Client ID: B-4

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White compacted powdery material with paint	None Detected	None Detected	Binder/Filler, Paint
2.	White sandy material with paint	None Detected	Cellulose <1%	Binder/Filler, Paint
3.	Grey sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 211142805

Client ID: B-5

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Cream chalky material with paper	None Detected	Cellulose 6%	Gypsum/Binder



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BULK ASBESTOS FIBER ANALYSIS

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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: 21-CGAR.05
Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111428
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211142806

Client ID: B-6

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White compacted powdery material with paint	None Detected	None Detected	Binder/Filler, Paint
2.	White sandy material with paint	None Detected	Cellulose <1%	Binder/Filler, Paint
3.	Grey sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 211142807

Client ID: B-7

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White compacted powdery material with paint	None Detected	None Detected	Binder/Filler, Paint
2.	White sandy material with paint	None Detected	Cellulose <1%	Binder/Filler, Paint
3.	Grey sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 211142808

Client ID: B-8

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White compacted powdery material with paint	None Detected	None Detected	Binder/Filler, Paint
2.	Trace of white sandy material with paint	None Detected	Cellulose <1%	Binder/Filler, Paint

Lab ID: 211142809

Client ID: B-9

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White compacted powdery material with paint	None Detected	None Detected	Binder/Filler, Paint
2.	Trace of white sandy material with paint	None Detected	Cellulose <1%	Binder/Filler, Paint



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BULK ASBESTOS FIBER ANALYSIS

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Client Name: CES Environmental Consultants, Inc

Project Manager: Cesar Ruvalcaba

Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601

Project Number: 21-CGAR.05

Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111428

Samples Submitted: 13

Samples Analyzed: 13

Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211142810

Client ID: B-10

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White compacted powdery material with paint	None Detected	None Detected	Binder/Filler, Paint
2.	Trace of white sandy material with paint	None Detected	Cellulose <1%	Binder/Filler, Paint

Lab ID: 211142811

Client ID: B-11

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Cream floor tile	None Detected	None Detected	Binder/Filler
2.	Clear adhesive	None Detected	None Detected	Mastic/Binder
3.	Cream vinyl material	None Detected	None Detected	Vinyl/Binder
4.	Cream vinyl tile	None Detected	None Detected	Vinyl/Binder
5.	Clear adhesive	None Detected	None Detected	Mastic/Binder
6.	Cream vinyl material	None Detected	None Detected	Vinyl/Binder
7.	Brown/blue fibrous backing	None Detected	Cellulose 60%	Binder/Filler
8.	Dark brown brittle mastic	None Detected	None Detected	Mastic/Binder





BULK ASBESTOS FIBER ANALYSIS

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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: 21-CGAR.05
Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111428
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211142812

Client ID: B-12

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Cream floor tile	None Detected	None Detected	Binder/Filler
2.	Clear adhesive	None Detected	None Detected	Mastic/Binder
3.	Cream vinyl material	None Detected	None Detected	Vinyl/Binder
4.	Cream vinyl tile	None Detected	None Detected	Vinyl/Binder
5.	Clear adhesive	None Detected	None Detected	Mastic/Binder
6.	Cream vinyl material	None Detected	None Detected	Vinyl/Binder
7.	Brown/blue fibrous backing	None Detected	Cellulose 60%	Binder/Filler
8.	Dark brown brittle mastic	None Detected	None Detected	Mastic/Binder

Lab ID: 211142813

Client ID: B-13

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Cream floor tile	None Detected	None Detected	Binder/Filler
2.	Clear adhesive	None Detected	None Detected	Mastic/Binder
3.	Cream vinyl material	None Detected	None Detected	Vinyl/Binder
4.	Cream vinyl tile	None Detected	None Detected	Vinyl/Binder
5.	Clear adhesive	None Detected	None Detected	Mastic/Binder
6.	Cream vinyl material	None Detected	None Detected	Vinyl/Binder
7.	Brown/blue fibrous backing	None Detected	Cellulose 60%	Binder/Filler
8.	Dark brown brittle mastic	None Detected	None Detected	Mastic/Binder



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BULK ASBESTOS FIBER ANALYSIS

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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: 21-CGAR.05
Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111428
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Analyzed by: Don Nguyen

Signature: 

Date: 07-23-2021

Reviewed by: Zubair Ahmed

Signature: 

Date: 07-23-2021

Reporting limit is 1%. If the sample was not collected by AIH Laboratory then the accuracy of the results is limited by the methodology and experience of the sample collector. Clients can verify specific reporting limit requirement from local regulatory agencies. Liability limited to cost of samples analysis. This report shall not be reproduced except in full, without written approval of AIH Laboratory. It shall not be used to claim product endorsement by NVLAP or any other agency of the government. Reported results relate only to the samples tested and may not be the representative of the sample area. AIH Laboratory shall dispose of the Customer's samples 14 days after receiving the samples unless instructed to store them for an alternate period of time in writing.





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BULK ASBESTOS FIBER ANALYSIS

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Project Manager: Cesar Ruvalcaba

Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601

Project Number: 21-CGAR.05

Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111429

Samples Submitted: 13

Samples Analyzed: 13

Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211142901

Client ID: B-14

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White/brown vinyl material	None Detected	None Detected	Vinyl/Binder
2.	White floor tile	None Detected	None Detected	Binder/Filler
3.	Clear adhesive	None Detected	Cellulose 2%	Mastic/Binder

Lab ID: 211142902

Client ID: B-15

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White/brown vinyl material	None Detected	None Detected	Vinyl/Binder
2.	White floor tile	None Detected	None Detected	Binder/Filler
3.	Clear adhesive	None Detected	Cellulose 2%	Mastic/Binder

Lab ID: 211142903

Client ID: B-16

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White/brown vinyl material	None Detected	None Detected	Vinyl/Binder
2.	White floor tile	None Detected	None Detected	Binder/Filler
3.	Clear adhesive	None Detected	Cellulose 2%	Mastic/Binder

Lab ID: 211142904

Client ID: B-17

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White compacted powdery material with paint	None Detected	Cellulose <1%	Binder/Filler, Paint



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Project Number: 21-CGAR.05

Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111429

Samples Submitted: 13

Samples Analyzed: 13

Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211142905

Client ID: B-18

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White compacted powdery material with paint	None Detected	Cellulose <1%	Binder/Filler, Paint

Lab ID: 211142906

Client ID: B-19

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White compacted powdery material with paint	None Detected	Cellulose <1%	Binder/Filler, Paint

Lab ID: 211142907

Client ID: B-20

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White compacted powdery material with paint	None Detected	Cellulose <1%	Binder/Filler, Paint
2.	White sandy material with paint	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains
3.	Grey sandy material	None Detected	Cellulose 2%	Binder/Filler, Mineral Grains

Lab ID: 211142908

Client ID: B-21

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown vinyl material	None Detected	None Detected	Vinyl/Binder
2.	Black floor tile	None Detected	None Detected	Binder/Filler
3.	Clear adhesive	None Detected	Cellulose <1%	Mastic/Binder
4.	Blue vinyl material	None Detected	None Detected	Vinyl/Binder
5.	Black floor tile (on wood)	None Detected	None Detected	Binder/Filler



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BULK ASBESTOS FIBER ANALYSIS

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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: 21-CGAR.05
Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111429
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211142909

Client ID: B-22

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown vinyl material	None Detected	None Detected	Vinyl/Binder
2.	Black floor tile	None Detected	None Detected	Binder/Filler
3.	Clear adhesive	None Detected	Cellulose <1%	Mastic/Binder
4.	Blue vinyl material	None Detected	None Detected	Vinyl/Binder
5.	Black floor tile (on wood)	None Detected	None Detected	Binder/Filler

Lab ID: 211142910

Client ID: B-23

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown vinyl material	None Detected	None Detected	Vinyl/Binder
2.	Black floor tile	None Detected	None Detected	Binder/Filler
3.	Clear adhesive	None Detected	Cellulose <1%	Mastic/Binder
4.	Blue vinyl material	None Detected	None Detected	Vinyl/Binder
5.	Black floor tile	None Detected	None Detected	Binder/Filler

Lab ID: 211142911

Client ID: B-24

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White chalky material with paper	None Detected	Cellulose 8%	Gypsum/Binder

Lab ID: 211142912

Client ID: B-25

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White chalky material with paper	None Detected	Cellulose 8%	Gypsum/Binder



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BULK ASBESTOS FIBER ANALYSIS

BY POLARIZED LIGHT MICROSCOPY



Phone: (562) 860-2201
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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: 21-CGAR.05
Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

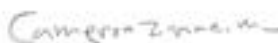
Lab Batch Number: 2111429
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211142913

Client ID: B-26

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White chalky material with paper	None Detected	Cellulose 8%	Gypsum/Binder

Analyzed by: Cameron
Zimmerman

Signature: 

Date:
07-26-2021

Reviewed by: Zubair Ahmed

Signature: 

Date:
07-26-2021

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BULK ASBESTOS FIBER ANALYSIS

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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: 21-CGAR.05
Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111430
Samples Submitted: 15
Samples Analyzed: 15
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143001

Client ID: B-27

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown vinyl material	None Detected	None Detected	Vinyl/Binder
2.	Clear adhesive	None Detected	None Detected	Binder/Filler
3.	White vinyl material	None Detected	None Detected	Vinyl/Binder
4.	Clear adhesive	None Detected	None Detected	Binder/Filler
5.	Red floor tile	Chrysotile 2%	None Detected	Binder/Filler
6.	Clear adhesive	None Detected	None Detected	Binder/Filler

Lab ID: 211143002

Client ID: B-28

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown vinyl material	None Detected	None Detected	Vinyl/Binder
2.	Clear adhesive	None Detected	None Detected	Binder/Filler
3.	White vinyl material	None Detected	None Detected	Vinyl/Binder
4.	Clear adhesive	None Detected	None Detected	Binder/Filler
5.	Red floor tile	Chrysotile 2%	None Detected	Binder/Filler
6.	Clear adhesive	None Detected	None Detected	Binder/Filler



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Project Manager: Cesar Ruvalcaba

Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601

Project Number: 21-CGAR.05

Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111430

Samples Submitted: 15

Samples Analyzed: 15

Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143003

Client ID: B-29

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown vinyl material	None Detected	None Detected	Vinyl/Binder
2.	Clear adhesive	None Detected	None Detected	Binder/Filler
3.	White vinyl material	None Detected	None Detected	Vinyl/Binder
4.	Clear adhesive	None Detected	None Detected	Binder/Filler
5.	Red floor tile	Chrysotile 2%	None Detected	Binder/Filler
6.	Clear adhesive	None Detected	None Detected	Binder/Filler

Lab ID: 211143004

Client ID: B-30

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey flat rubbery material	None Detected	None Detected	Binder/Filler
2.	Beige mastic	None Detected	None Detected	Mastic/Binder
3.	Grey fibrous backing	Chrysotile 30%	Cellulose 30%	Binder/Filler
4.	Brown brittle mastic with coating	None Detected	None Detected	Mastic/Binder

Lab ID: 211143005

Client ID: B-31

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey flat rubbery material	None Detected	None Detected	Binder/Filler
2.	Beige mastic	None Detected	None Detected	Mastic/Binder
3.	Grey fibrous backing	Chrysotile 30%	Cellulose 30%	Binder/Filler
4.	Brown brittle mastic with coating	None Detected	None Detected	Mastic/Binder



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Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: 21-CGAR.05
Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111430
Samples Submitted: 15
Samples Analyzed: 15
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143006

Client ID: B-32

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey flat rubbery material	None Detected	None Detected	Binder/Filler
2.	Beige mastic	None Detected	None Detected	Mastic/Binder
3.	Grey fibrous backing	Chrysotile 30%	Cellulose 30%	Binder/Filler
4.	Brown brittle mastic with coating	None Detected	None Detected	Mastic/Binder

Lab ID: 211143007

Client ID: B-33

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey vinyl material	None Detected	None Detected	Vinyl/Binder
2.	Clear adhesive with debris	None Detected	None Detected	Binder/Filler, Fine Particles
3.	Brown mastic	None Detected	None Detected	Mastic/Binder
4.	Yellow linoleum	None Detected	Cellulose 15%	Binder/Filler
5.	Black fibrous asphaltic backing	None Detected	Cellulose 60%	Asphalt/Binder
6.	Trace of brown mastic with wood	None Detected	None Detected	Mastic/Binder





BULK ASBESTOS FIBER ANALYSIS

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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: 21-CGAR.05
Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111430
Samples Submitted: 15
Samples Analyzed: 15
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143008

Client ID: B-34

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey vinyl material	None Detected	None Detected	Vinyl/Binder
2.	Brown mastic	None Detected	None Detected	Mastic/Binder
3.	Green fibrous backing	None Detected	Cellulose 60%	Binder/Filler
4.	Yellow linoleum	None Detected	Cellulose 15%	Binder/Filler
5.	Black fibrous asphaltic backing	None Detected	Cellulose 60%	Asphalt/Binder
6.	Trace of brown mastic with wood	None Detected	None Detected	Mastic/Binder

Lab ID: 211143009

Client ID: B-35

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey vinyl material	None Detected	None Detected	Vinyl/Binder
2.	Brown mastic	None Detected	None Detected	Mastic/Binder
3.	Green fibrous backing	None Detected	Cellulose 60%	Binder/Filler
4.	Yellow linoleum	None Detected	Cellulose 15%	Binder/Filler
5.	Black fibrous asphaltic backing	None Detected	Cellulose 60%	Asphalt/Binder
6.	Trace of brown mastic with wood	None Detected	None Detected	Mastic/Binder

Lab ID: 211143010

Client ID: B-36

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	None Detected	Cellulose 50%	Asphalt/Binder



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BULK ASBESTOS FIBER ANALYSIS

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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: 21-CGAR.05
Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111430
Samples Submitted: 15
Samples Analyzed: 15
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143011

Client ID: B-37

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	None Detected	Cellulose 50%	Asphalt/Binder

Lab ID: 211143012

Client ID: B-38

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	None Detected	Cellulose 50%	Asphalt/Binder

Lab ID: 211143013

Client ID: B-39

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	None Detected	Cellulose 50%	Asphalt/Binder

Lab ID: 211143014

Client ID: B-40

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	None Detected	Cellulose 50%	Asphalt/Binder

Lab ID: 211143015

Client ID: B-41

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	None Detected	Cellulose 50%	Asphalt/Binder



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Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: 21-CGAR.05
Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111430
Samples Submitted: 15
Samples Analyzed: 15
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Analyzed by: Vivian Le

Signature: 

Date: 07-24-2021

Reviewed by: Zubair Ahmed

Signature: 

Date: 07-24-2021

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Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: 21-CGAR.05
Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111431
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143101

Client ID: B-42

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143102

Client ID: B-43

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	None Detected	None Detected	Binder/Filler, Mineral Grains
2.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143103

Client ID: B-44

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143104

Client ID: B-45

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	None Detected	None Detected	Binder/Filler, Mineral Grains
2.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143105

Client ID: B-46

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143106

Client ID: B-47

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	None Detected	None Detected	Binder/Filler, Mineral Grains



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Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: 21-CGAR.05
Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111431
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143107

Client ID: B-48

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Off white sandy material with paint	None Detected	None Detected	Binder/Filler, Mineral Grains
2.	White sandy material with paint	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143108

Client ID: B-49

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	None Detected	None Detected	Binder/Filler, Mineral Grains
2.	Blue sandy material	Chrysotile <1%	None Detected	Binder/Filler, Mineral Grains
3.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143109

Client ID: B-50

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	None Detected	None Detected	Binder/Filler, Mineral Grains
2.	Blue sandy material	Chrysotile <1%	None Detected	Binder/Filler, Mineral Grains
3.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143110

Client ID: B-51

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	None Detected	None Detected	Binder/Filler, Mineral Grains
2.	Blue sandy material	Chrysotile <1%	None Detected	Binder/Filler, Mineral Grains
3.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains



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Whittier, CA 90601
Project Number: 21-CGAR.05
Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111431
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143111

Client ID: B-52

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black asphaltic mastic	None Detected	Cellulose 4%	Asphalt/Binder

Lab ID: 211143112

Client ID: B-53

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black asphaltic mastic	None Detected	Cellulose 4%	Asphalt/Binder

Lab ID: 211143113

Client ID: B-54

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black asphaltic mastic	None Detected	Cellulose 4%	Asphalt/Binder

Analyzed by: Vivian Le

Signature:

Date: 07-24-2021

Reviewed by: Zubair Ahmed

Signature:

Date: 07-24-2021

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Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: 21-CGAR.05
Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111432
Samples Submitted: 9
Samples Analyzed: 9
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143201

Client ID: B-55

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic material with black granules	None Detected	Glass Fibers 10%	Asphalt/Binder, Mineral Grains
2.	Black fibrous asphaltic material with grey granules	None Detected	Glass Fibers 10%	Asphalt/Binder, Mineral Grains
3.	Black fibrous asphaltic material with green granules	None Detected	Glass Fibers 10%	Asphalt/Binder, Mineral Grains
4.	Black fibrous asphaltic material with blue granules	None Detected	Glass Fibers 10%	Asphalt/Binder, Mineral Grains
5.	Black fibrous asphaltic felt	None Detected	Cellulose 60%	Asphalt/Binder

Lab ID: 211143202

Client ID: B-56

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic material with black granules	None Detected	Glass Fibers 10%	Asphalt/Binder, Mineral Grains
2.	Black fibrous asphaltic material with grey granules	None Detected	Glass Fibers 10%	Asphalt/Binder, Mineral Grains
3.	Black fibrous asphaltic material with green granules	None Detected	Glass Fibers 10%	Asphalt/Binder, Mineral Grains
4.	Black fibrous asphaltic material with blue granules	None Detected	Glass Fibers 10%	Asphalt/Binder, Mineral Grains
5.	Black fibrous asphaltic felt	None Detected	Cellulose 60%	Asphalt/Binder

Lab ID: 211143203

Client ID: B-57

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic material with black granules	None Detected	Glass Fibers 10%	Asphalt/Binder, Mineral Grains
2.	Black fibrous asphaltic material with grey granules	None Detected	Glass Fibers 10%	Asphalt/Binder, Mineral Grains
3.	Black fibrous asphaltic material with green granules	None Detected	Glass Fibers 10%	Asphalt/Binder, Mineral Grains
4.	Black fibrous asphaltic material with blue granules	None Detected	Glass Fibers 10%	Asphalt/Binder, Mineral Grains
5.	Black fibrous asphaltic felt	None Detected	Cellulose 60%	Asphalt/Binder



BULK ASBESTOS FIBER ANALYSIS

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Client Address: 6741 Friends Avenue, Suite B,
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Project Number: 21-CGAR.05
Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111432
Samples Submitted: 9
Samples Analyzed: 9
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143204

Client ID: B-58

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic material with black granules	None Detected	Cellulose 20%	Asphalt/Binder, Mineral Grains
2.	Black fibrous asphaltic material with brown granules	None Detected	Cellulose 20%	Asphalt/Binder, Mineral Grains
3.	Black fibrous asphaltic material with grey granules	None Detected	Cellulose 20%	Asphalt/Binder, Mineral Grains

Lab ID: 211143205

Client ID: B-59

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic material with black granules	None Detected	Cellulose 20%	Asphalt/Binder, Mineral Grains
2.	Black fibrous asphaltic material with brown granules	None Detected	Cellulose 20%	Asphalt/Binder, Mineral Grains
3.	Black fibrous asphaltic material with grey granules	None Detected	Cellulose 20%	Asphalt/Binder, Mineral Grains

Lab ID: 211143206

Client ID: B-60

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic material with black granules	None Detected	Cellulose 20%	Asphalt/Binder, Mineral Grains
2.	Black fibrous asphaltic material with brown granules	None Detected	Cellulose 20%	Asphalt/Binder, Mineral Grains
3.	Black fibrous asphaltic material with grey granules	None Detected	Cellulose 20%	Asphalt/Binder, Mineral Grains

Lab ID: 211143207

Client ID: B-61

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic material with granules	None Detected	Glass Fibers 10%	Asphalt/Binder, Mineral Grains
2.	Black fibrous asphaltic felt	None Detected	Cellulose 60%	Asphalt/Binder



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Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: 21-CGAR.05
Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2111432
Samples Submitted: 9
Samples Analyzed: 9
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143208

Client ID: B-62

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic material with granules	None Detected	Glass Fibers 10%	Asphalt/Binder, Mineral Grains
2.	Black fibrous asphaltic felt	None Detected	Cellulose 60%	Asphalt/Binder

Lab ID: 211143209

Client ID: B-63

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic material with granules	None Detected	Glass Fibers 10%	Asphalt/Binder, Mineral Grains
2.	Black fibrous asphaltic felt	None Detected	Cellulose 60%	Asphalt/Binder

Analyzed by: Don Nguyen

Signature: 

Date: 07-26-2021

Reviewed by: Zubair Ahmed

Signature: 

Date: 07-26-2021

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BULK ASBESTOS FIBER ANALYSIS

Point Count Method (1000 Points)



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Client Name: CES Environmental Consultants, Inc

Project Manager: Cesar Ruvalcaba

Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601

Project Number: 21-CGAR.05

Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2112020

Samples Submitted: 3

Samples Analyzed: 3

Analysis Method: EPA Method
600/R-93/116

Laboratory Sample ID: 211202001

Client Sample ID: B-49-Layer 2

Sample Description: Layer 2 of 3: Blue sandy material

Note: This sample was previously analyzed for asbestos content using Polarized Light Microscopy (PLM). The concentration of asbestos content was determined using visual estimation. The sample was reported to have <1% asbestos in Layer 2 and the corresponding Lab ID is 211143108.

Slide Prep Number	1	2	3	4	5	6	7	8	Total
Asbestos Points	0	0	0	0	0	0	0	0	0
Non-Asbestos Points	125	125	125	125	125	125	125	125	1000
Total Points Counted	125	125	125	125	125	125	125	125	1000

Asbestos Concentration: <0.1%

Conclusion: This sample contains <0.1% asbestos.

Comment: Asbestos fibers were observed in the field of view but not counted as points.

Laboratory Sample ID: 211202002

Client Sample ID: B-50-Layer 2

Sample Description: Layer 2 of 3: Blue sandy material

Note: This sample was previously analyzed for asbestos content using Polarized Light Microscopy (PLM). The concentration of asbestos content was determined using visual estimation. The sample was reported to have <1% asbestos in Layer 2 and the corresponding Lab ID is 211143109.

Slide Prep Number	1	2	3	4	5	6	7	8	Total
Asbestos Points	0	0	0	0	0	0	0	0	0
Non-Asbestos Points	125	125	125	125	125	125	125	125	1000
Total Points Counted	125	125	125	125	125	125	125	125	1000

Asbestos Concentration: <0.1%

Conclusion: This sample contains <0.1% asbestos.

Comment: Asbestos fibers were observed in the field of view but not counted as points.



BULK ASBESTOS FIBER ANALYSIS

Point Count Method (1000 Points)



Phone: (562) 860-2201
www.aihlab.com

2556 W Woodland Dr Anaheim, CA 92801

Client Name: CES Environmental Consultants, Inc

Project Manager: Cesar Ruvalcaba

Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601

Project Number: 21-CGAR.05

Project Location: 16004 South Harvard Boulevard,
Gardena, CA 90247

Lab Batch Number: 2112020

Samples Submitted: 3

Samples Analyzed: 3

Analysis Method: EPA Method
600/R-93/116

Laboratory Sample ID: 211202003

Client Sample ID: B-51-Layer 2

Sample Description: Layer 2 of 3: Blue sandy material

Note: This sample was previously analyzed for asbestos content using Polarized Light Microscopy (PLM). The concentration of asbestos content was determined using visual estimation. The sample was reported to have <1% asbestos in Layer 2 and the corresponding Lab ID is 211143110.

Slide Prep Number	1	2	3	4	5	6	7	8	Total
Asbestos Points	0	0	0	0	0	0	0	0	0
Non-Asbestos Points	125	125	125	125	125	125	125	125	1000
Total Points Counted	125	125	125	125	125	125	125	125	1000

Asbestos Concentration: <0.1%

Conclusion: This sample contains <0.1% asbestos.

Comment: Asbestos fibers were observed in the field of view but not counted as points.

Analyzed by: Calvin Nguyen

Signature:

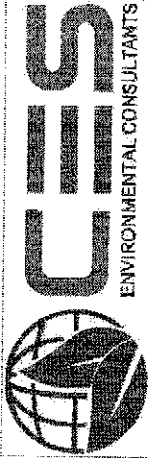
Date: 08-03-2021

Reviewed by: Vivian Le

Signature:

Date: 08-03-2021

Reporting limit is 0.1%. "<" denotes presence of asbestos below reporting limit. ND=None Detected. If the sample was not collected by AIH Laboratory then the accuracy of the results is limited by the methodology and experience of the sample collector. Clients can verify specific reporting limit requirement from local regulatory agencies. Liability limited to cost of samples analysis. This report shall not be reproduced except in full, without written approval of AIH Laboratory. It shall not be used to claim product endorsement by NVLAP or any other agency of the government. Reported results relate only to the samples tested and may not be the representative of the sample area. AIH Laboratory shall dispose of the Customer's samples 30 days after receiving the samples unless instructed to store them for an alternate period of time in writing.



BULK SAMPLE INVENTORY AND COC-ASBESTOS

2111428

Client	City of Gardena	Project Name:	16054 S. Riverwood Ave. Gardena, CA			
Location:	Gardena, CA	Project Number	21-06AR-05			
Inspector:	Fabian Peralta	Date:	07-19-2021			
Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition
B-1	plaster	Unit C Bedroom 1 NW	walk ceilings in Units	10,000 sq. ft.	yes	damaged
2		Unit C Bedroom 2 NE	Asb. ID			
3		Unit B Bedroom 2 NW				
4		Unit A living room - NE				
5		Unit A DR SW				
6		Unit D living room SE				
7		Unit D kitchen SW				
8	Textured Coating	Unit C living room w/br	Units H-D throughout	10,000 sq. ft.	no	not damaged
9		Unit A Ectv				
10		Unit B Bedroom 2 NW				
11	white stucco vinyl	Unit B living room NE	Unit B	300 sq. ft.	no	damaged
12	flooring (2 layers)	SW				
13		kitchen NW				

CHAIN OF CUSTODY

Requested Analysis:	PMI Bulk	Turnaround	5 day
Relinquished by:		Date and Time:	07-19-2021 13:20
Received by:		Date and Time:	7/14/2021 1:20



BULK SAMPLE INVENTORY AND COC-ASBESTO

2111429

Client	City of Gardena	Project Name:	16004 E. Howard Ave. Gardena, CA			
Location:	Gardena, CA	Project Number	21-CGAD-05			
Inspector:	Fabian Ruelas, Nicky Gutierrez-Torero	Date:	07-19-2021			
Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition
B-14	white sheet vinyl	Unit C hallway w/entr	Unit C	10 sq. ft.	no	damaged
15	flooring					
16						
17	Portland cement	Unit B living room	Units A-D throughout	10,000 sq. ft.	no	damaged
18		Bedroom 1 NW				
19		Unit D kitchen NW				
20		Unit D living room SW				
21	wood-like sheet	Unit C Bedroom 1 NW	Unit C throughout	10,000 sq. ft.	no	damaged
22	vinyl flooring	Bedroom 2 NE				
23		living room NW				
24	bottom board	Unit C Bedroom 1 NW	Units A, B, C, D	10,000 sq. ft.	yes	damaged
25		Unit B Bedroom 2 NE	behind plaster			
26		Unit A BR SW				

CHAIN OF CUSTODY

Requested Analysis:	PM Bulk	Turnaround	5 days
Relinquished by:		Date and Time:	07-19-2021 1320
Received by:		Date and Time:	7/19/2021 1:42p



2111430

BULK SAMPLE INVENTORY AND COC-ASBESTO

Client	City of Gardena	Project Name:	16004 S. Hammond Ave. Gardena, CA			
Location:	Gardena, CA	Project Number	21-06AFCOS			
Inspector:	Fabian Duran, Nitya Lathier-Fluoro	Date:	6-19-2021			
Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition
13-27	wood-like sheet	Bedroom 1 NE	Living Room, R12, Bedroom 3	750 sq. ft.	no	debris
28	Vinyl Flooring (3 layers)	1 2 SW	in Unit A	1	+	1
29	1	R12 Ntr	1			
30	4" grey bareband	Unit - Kitchen	Kitchen Unit A	3014 ft.	no	intact
31	6" grey	1	1	1	+	1
32	1	1	1			
33	beige sheet vinyl	1	1	600 sq. ft.	no	damaged
34	flooring (3 layers)	1	1	1	+	1
35	1	1	1			
36	barrier paper	Entrance of Main - NW	Entrance behind studio	9,200 sq. ft.	yes	intact
37	1	Entrance of Main - NE	1	1	+	1
38	1	SW	1			
39	1	Garage - NW	Entrance behind studio	600 sq. ft.	yes	intact
40	1	ECR	1	1	+	1
41	1	96	1			

CHAIN OF CUSTODY

Requested Analysis:	PLM Bulky	Turnaround	5 day
Relinquished by:	<i>[Signature]</i>	Date and Time:	07-19-2021 1320
Received by:	<i>[Signature]</i>	Date and Time:	07-19-2021 1120



BULK SAMPLE INVENTORY AND COC-ASBESTOS

2111431

Client	City of Lawrence	Project Name: 16004 S. Harvard Ave. Courtyard, CA				
Location:	Lawrence, CA	Project Number 21-CGAR-05				
Inspector: Fabian Rualcaba	Sample Location: N. Hwy. Courtyard-Rooms	Date: 07-19-2021				
Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition
B-42	Stucco	Exterior of Main NW	Exterior walls/corillings	4,200 sq. ft.	No	Intact
43		Bldg				
44		Wrtv				
45		Ectv				
46		SW				
47		SE				
48		Sctv				
49		NW		600 sq. ft.	No	Intact
50		Ectv				
51		Sctv				
52	grey boot mastic	Roof NW	Roof penetrations	20 sq. ft.	No	Intact
53		SE	(sub)			
54		ctv				

CHAIN OF CUSTODY

Requested Analysis: PCM Belle	Turnaround	5 day
Relinquished by: [Signature]	Date and Time: 07-19-2021	1320
Received by: Ryan Swell	Date and Time: 07-19-2021	1:20p



BULK SAMPLE INVENTORY AND COC-ASBESTOS

2111432

[illegible]

12

APPENDIX C:
BULK SAMPLE INVENTORY-LEAD PAINT CHIPS

BULK SAMPLE INVENTORY-LEAD PAINT CHIPS

Site: 16004 S Harvard
Building:
Inspector: Fabian Ruvalcaba

Sample #	Component/Substrate/Color	Sample Location	Component Location	Results (ppm)	Condition
PC-7	Wall/Plaster/ White	Unit B- Living Room South West	Units A, B, C, D	<200	Intact
PC-8	Ceiling/Plaster/ White	Unit B- Restroom North East	Units A, B, C, D	<200	Intact
PC-9	Wall/Stucco/Grey	Exterior- at Garage South West	Exterior (Main and Garage)	<200	Intact
PC-10	Flashing/Metal/ Blue	Exterior- at Garage South West	Exterior (Main and Garage)	<200	Intact
PC-11	Garage Door/Metal/White	Exterior- At Garage West Center	Exterior at Garage	<200	Intact
PC-12	Garage Door Case/Wood /Grey	Exterior- At Garage West Center	Exterior at Garage	16,977	Intact

APPENDIX D:

**SUMMARY OF BULK PAINT SAMPLES, ANALYTICAL DATA, CHAIN OF
CUSTODY, XRF REPORT AND CDPH FORM 8552**



Analysis Report

Total Lead (Pb)

Client: CES Environmental Consultants, Inc
Address: 6741 Friends Avenue, Suite B, Whittier, CA 90601

Project Manager: Cesar Ruvalcaba
Project #: No Information Provided
Project Location: 16010 Harvard Boulevard, Gardena, CA 90247

Report Status: Final Report

Lab Batch #: 2111427

Matrix: Paint

Method: EPA 7000B

Samples Submitted: 12

Samples Analyzed: 12

Bench Run No: 56311

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
211142701	PC-1	0.0999	0.40	8929	0.89
211142702	PC-2	0.0996	0.40	5181	0.52
211142703	PC-3	0.0999	0.02	<200	<0.02
211142704	PC-4	0.1009	0.02	<200	<0.02
211142705	PC-5	0.0135	0.15	7067	0.71
211142706	PC-6	0.0985	0.02	3602	0.36
211142707	PC-7	0.1018	0.02	<200	<0.02
211142708	PC-8	0.1009	0.02	<200	<0.02
211142709	PC-9	0.0999	0.02	<200	<0.02
211142710	PC-10	0.1017	0.02	<200	<0.02
211142711	PC-11	0.1013	0.02	<200	<0.02
211142712	PC-12	0.1032	0.39	16977	1.70

Sampled By: Client

Analyzed by: Watit Sontising

Reviewed by: Zubair Ahmed

Signature: 

Date: 07-20-2021

Signature: 

Date: 07-20-2021

Notes:

Units: mg/kg = milligrams per kilogram; percent = milligrams per kilogram/10000

RL = Reporting limit; "<" = below the reporting limit; mg/kg = ppm

Samples were prepared in accordance with EPA 3050B and analyzed with **EPA 7420** unless stated otherwise. Condition of all samples and method QC results are acceptable unless stated otherwise. Reported results relate only to the samples tested and may not be the representative of the sample area.

AIHA LAP, LLC Accredited Laboratory for Environmental Lead Laboratory ISO/IEC 17025:2005, Lab ID# 203769



BULK SAMPLE INVENTORY AND COC-LEAD PAINT CHIPS

Client: City of Garden Project Name: 16004 S Harvard St, Garden Ca
 Location: Don Rude Project Number: SWO#
 Inspector: Don Rude Date: 7-19-2011

Sample #	Component/Substrate/Color	Sample Location	Component Location	Est. Qty	Condition
PC-7	wall plaster white	Unit 6 - Living R. S/W	Units A, B, C, D	100 sq ft	Yes
I-8	Ceiling	I - RR - N/B	I	N/A	-
PC-8	Door wood white	N/A	Interior units A, B, C, D		
XP-5	Door				
	Lease				
	Window Case				
	Cabinet				
	Wall Trim				
PC-9	wall Ceramic white		Units C, B, D		
XP-6	Floor				
	Toilet				
	Tub				
PC-10	Tub Ceramic white		Unit A RR		
XP-7	Floor		I (Under sheet vinyl)		
	Window Case wood gray		6x8x4	100 sq ft	Damaged
	Door wood gray		I (Under sheet vinyl)	P/H	
	Lease		I	N/A	

CHAIN OF CUSTODY

Requested Analysis: Flame At-Lead in paint Turnaround: 5 day
 Relinquished by: [Signature] Date and Time: 7-19-2011
 Received by: Ryan Smith Date and Time: 7/19/2011 1:20p

2111117

7111116



BULK SAMPLE INVENTORY AND COC-LEAD PAINT CHIPS

Client: City of Grand Project Name: 1604 S Howard St. Grand Co

Location: Grand Project Number: SWO#

Inspector: John Rubach Date: 7-19-2021

Sample #	Component/Substrate/Color	Sample Location	Component Location	Est. Qty	Condition
PC-9	Support wood Blue	N/A	Exterior - (Main Bridge & Garage)	N/A	
	Eve wood Gray		Exterior - North Stairway		
	Stairway wood Gray		Exterior - South Stairway		
	Handrail Wood Gray		Exterior (Main and Garage)		
	Wall Space Gray	Exterior - Garage - S/W			
	Flooring Metal Blue	I → I			
	Garage Door Metal White	Exterior - Garage - W/W			
	Core wood Gray	I → I	Coat. Garage	10 suit	Damaged

Requested Analysis: Flame AA - lead in paint Turnaround: 5 day

Relinquished by: [Signature] Date and Time: 7-19-2021

Received by: Ryan Guel Date and Time: 7/19/2021 1:20p

XRF DATA SHEET

Date: 7-19-2021

Project Number: _____

Client: _____

Project Name: 6004 S. Harvard St, Gardena CA

Inspector: Ron R. Nick

Sample No.	Sample Location - Room Description	Component (I)	substrate	Color	A,B,C,D Wall	Paint Condition	Sample Results (mg/cm ²)
80	Unit L - Kitchen	Wall	PL	White	D	I	0.17
81	-	Cabinet	wood	White	B	I	0.8
82	-	↓	↓	↓	B	I	0.5
83	-	Door	↓	↓	C	I	1.9
84	-	↓	↓	↓	C	I	1.1
85	- Living Rm	Wall	PL	Green	D	I	0.60
86	- BR	Cabinet	core	White	A	I	0.02
87	-	Floor	↓	White	A	I	0.00
88	- Kitchen	Window	wood	White	A	I	1.8
89	Unit B - BR	Wall	Cer	White	A	I	0.00
90	-	Floor	↓	↓	B	↓	↓
91	-	Tub	↓	↓	A	↓	↓
92	-	Toilet	↓	↓	D	↓	↓
93	Unit A - BR	Wall	Cer	White	A	I	0.06
94	-	Tub	↓	↓	A	I	4.56
95	-	Floor	↓	Pink	A	I	8.5-
96	Unit A - Living Rm	Door	wood	White	B	I	2.6
97	-	↓	↓	↓	B	I	2.5
98	-	Window	↓	↓	A	I	2.7
99	-	Wallpaper	↓	↓	A	↓	2.7
100	- Kitchen	Cabinet	↓	↓	A	I	2.6
101	-	Wall	PL	White	A	I	0.0
102	-	Ceiling	↓	↓	A	↓	0.0
103	Exterior -	Window	wood	Gray	C	D	2.6
104	-	Door	↓	Blue	↓	I	2.9
105	-	Door	↓	Gray	↓	I	1.6
106	-	Support	↓	Blue	↓	I	1.6
107	-	Base	↓	Gray/Blue	↓	I	1.4
108	-	flashing	metal	Blue	↓	I	0.00
109	-	Wall	Stucco	Gray	DC	I	↓
110	-	↓	↓	↓	PD	I	↓
111	-	↓	↓	↓	PA	I	↓
112	-	Handrail	wood	gray	C	I	1.2
113	-	Staircase	↓	↓	A	I	2.3
114	-	Handrail	↓	↓	A	I	0.7
115	Calibration						0.9

(1) DW-Drywall, PL-Plaster, ME-Metal, WD-Wood, ST-Stucco, CE-Ceramic, PS-Plastic, CO-Concrete

Consultant Name: Ron R. Nick

Date: 7-19-2021

② 1.1

10


LEAD HAZARD EVALUATION REPORT**Section 1 — Date of Lead Hazard Evaluation** 7.19.2021**Section 2 — Type of Lead Hazard Evaluation (Check one box only)**☒ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☐ Other (specify)**Section 3 — Structure Where Lead Hazard Evaluation Was Conducted**

Address [number, street, apartment (if applicable)]		City	County	Zip Code
16004 Harvard Blvd		Gardena	Los Angeles	90247
Construction date (year) of structure	Type of structure		Children living in structure?	
	<input checked="" type="checkbox"/> Multi-unit building <input type="checkbox"/> School or daycare		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	<input type="checkbox"/> Single family dwelling <input type="checkbox"/> Other		<input type="checkbox"/> Don't Know	

Section 4 — Owner of Structure (if business/agency, list contact person)

Name		Telephone number	
City of Gardena		310-217-9643	
Address [number, street, apartment (if applicable)]		City	State
1717 West 162nd Street		Gardena	California
			Zip Code
			90247

Section 5 — Results of Lead Hazard Evaluation (check all that apply)☐ No lead-based paint detected ☐ Intact lead-based paint detected ☒ Deteriorated lead-based paint detected
☐ No lead hazards detected ☐ Lead-contaminated dust found ☐ Lead-contaminated soil found ☐ Other**Section 6 — Individual Conducting Lead Hazard Evaluation**

Name		Telephone number	
Fabian Ruvalcaba (LRC-00004100)/Elmer Ivan Castro (LRC-0004617)		323-399-3875	
Address [number, street, apartment (if applicable)]		City	State
6741 Friends Ave		Whittier	California
			Zip Code
			90601
CDPH certification number	Signature		Date
LRC-00004617			7.19.2021

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Section 7 — Attachments

- A. A foundation diagram or sketch of the structure indicating the specific locations of each lead hazard or presence of lead-based paint;
- B. Each testing method, device, and sampling procedure used;
- C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656

APPENDIX E:
SUMMARY OF LEAD-CONTAINING PAINTS

BULK SAMPLE INVENTORY-LEAD PAINT CHIPS

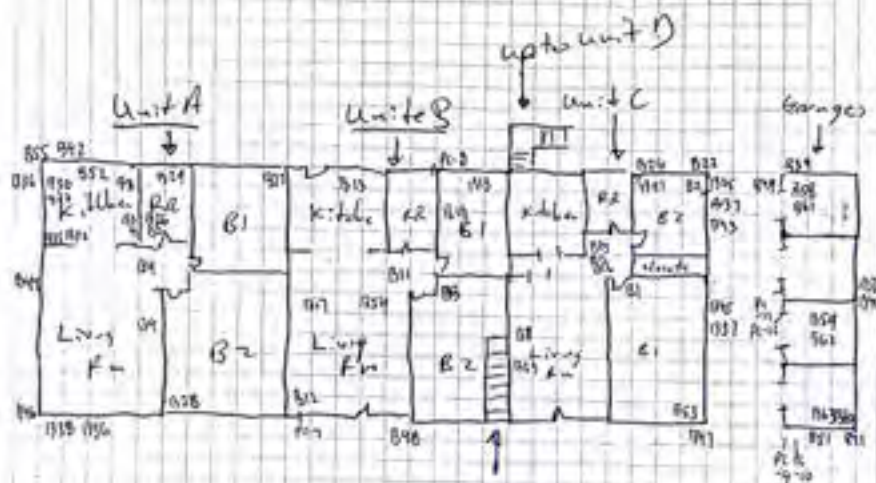
Site: 16004 S Harvard
Building:
Inspector: Fabian Ruvalcaba

Sample #	Component/Substrate/Color	Sample Location	Component Location	Results (ppm)	Condition
PC-7	Wall/Plaster/ White	Unit B- Living Room South West	Units A, B, C, D	<200	Intact
PC-8	Ceiling/Plaster/ White	Unit B- Restroom North East	Units A, B, C, D	<200	Intact
PC-9	Wall/Stucco/Grey	Exterior- at Garage South West	Exterior (Main and Garage)	<200	Intact
PC-10	Flashing/Metal/ Blue	Exterior- at Garage South West	Exterior (Main and Garage)	<200	Intact
PC-11	Garage Door/Metal/White	Exterior- At Garage West Center	Exterior at Garage	<200	Intact

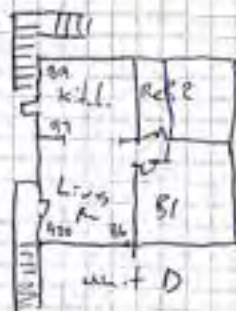
APPENDIX F:
SAMPLE DIAGRAMS

Location	16004 Harvard Street
Project Number	75-16402.05
Date	7-19-2021
Inspector	Fred R. Led-

16004 Harvard Street



B1-B2: 9-14 Samples
 A1-A2: 9-14 Samples



N-H

APPENDIX G:
INSPECTOR CERTIFICATIONS

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Cesar Ruvalcaba

Name

Certification No. 95-1799

Expires on 10/27/21

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7160-14 and 7160-15 of the Business and Professions Code





STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:



Cesar Ruvalcaba

CERTIFICATE TYPE:

Lead Inspector/Assessor
Lead Project Monitor

NUMBER:

LRC-00003922
LRC-00003921

EXPIRATION DATE:

1/16/2022
1/16/2022

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clcph or calling (800) 597-LEAD.

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Fabian Ruvalcaba

Name

Certification No. **15-5533**

Expires on **11/17/21**



This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.



STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:



Fabian Rubalcaba

CERTIFICATE TYPE:

Lead Inspector/Assessor

NUMBER:

LRC-00004100

EXPIRATION DATE:

12/6/2021

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clhpb or calling (800) 597-LEAD.



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL



Nicky Contreras-Morales

CERTIFICATE TYPE

Lead Renovation Technician

NUMBER

LEL-00000410

EXPIRATION DATE

8/16/2022

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at dph.ca.gov/registrants.aspx or calling (800) 597-4-LEAD.

Global Environmental Training

This is to certify that
Nicky Gutierrez-Moreno

SS# 4202

Has completed course work that meets the criteria required for EPA/AHERA
(TSCA Title II) Approved Reaccreditations and NESHAPs Regulations Training *

Asbestos in Buildings: Building Inspector Refresher

September 8, 2020

Course Date

220-144-BIR

Certificate Number

September 8, 2021

Expiration Date

CA - 023 - 06

Course Approval Number


Mario Virgen
Course Director



1520 W. Cameron Ave., Suite 103 * West Covina, CA 91790 (626) 962-4436

*This course meets California requirements

Global Environmental Training

This is to certify that

Nicky Gutierrez-Moreno

SS# 4202

Has completed course work that meets the criteria required for EPA/AHERA
(TSCA Title II) Approved Reaccreditation and NESHAPs Regulations Training *

Asbestos in Buildings: Abatement Contractor Supervisor Refresher

September 9, 2020

Course Date

220-175-CSR

Certificate Number

September 9, 2021

Expiration Date

CA - 023 - 04

Course Approval Number


Mario Virgen
Course Director



1520 W. Cameron Ave., Suite 103 * West Covina, CA 91790 (626) 962-4436
*This course meets California requirements



August 12, 2021

Mr. Kevin Kwak
City of Gardena
1717 West 162nd Street
Gardena, California 90247

RE: Asbestos and Lead Survey

City of Gardena
16010 South Harvard Boulevard (Units A-D and Garages)
Gardena, California 90247

CES Project No.: 21-CGAR.05

Dear Mr. Kwak:

At the request of the City of Gardena, CES Environmental Consultants, Inc. (CES) completed an asbestos and lead survey at 16010 South Harvard Blvd in Gardena, California 90247. The survey was conducted on July 19, 2021.

The survey was conducted to identify asbestos-containing materials (ACM) and lead in paint.

Summary of Findings:

- Asbestos-containing materials (ACMs) were identified. Refer to Section 5 (Table I) in this report for a summary of ACMs.
- Lead-based paint (LBP) was identified. Refer to Section 6 (Table II) in this report for a summary of LBP.
- Lead-containing paint (LCP). All other paints samples analyzed were reported with detectable levels of lead.

If you have any questions concerning the report, please contact our office.

This report was prepared by:

Fabian Rubalcaba
Certified Asbestos Consultant (CAC 15-5533)
CDPH Lead Inspector/Assessor
CES Environmental Consultants, Inc.
6741 Friends Avenue, Suite B
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1.0 PROJECT INFORMATION

City of Gardena
16010 South Harvard Boulevard (Units A-D and Garages)
Gardena, California 90247

2.0 INTRODUCTION AND BACKGROUND

CES Environmental Consultants (CES) conducted an Asbestos and Lead in Paint Survey at 16010 South Harvard Blvd in Gardena, California 90247 at the request of the City of Gardena.

3.0 SUBJECT SITE, AREA DESCRIPTION, MATERIAL CONDITIONS

The location of the property is 16010 South Harvard in the City of Gardena, California. The property is a semi-two (2) story apartment building with four (4) unit apartments and a separate detached structure garage building. At the time of the survey, the buildings were vacant. There were no obvious signs of structural or fire damaged observed at the time of the survey. The survey included all accessible areas of the building including floors, walls, ceilings, crawlspaces and attic spaces if available.

4.0 PROJECT SURVEY

CES representatives, Mr. Fabian Ruvalcaba a Cal-OSHA Certified Asbestos Consultant (CAC No.: 15-5533) and Nicky Gutierrez-Moreno an EPA Accredited Asbestos Building Inspector conducted the survey and sampling. Mr. Gutierrez-Moreno performed most of the lead survey work and assisted with mostly clerical type work for the asbestos survey. He performed all work under close supervision of Mr. Ruvalcaba.

CES's objective was to conduct a survey and sampling of suspect asbestos-containing materials (ACM) and lead in paint. The survey included the following:

- Survey of the affected areas to locate suspect ACM and lead in paint;
- Physical assessment of suspect ACM, and painted surfaces;
- Collection of bulk samples from suspect ACM materials, and painted surfaces; and
- Submitted samples collected for laboratory analysis of all ACM.

5.0 ASBESTOS SURVEY AND SAMPLING

5.1 Asbestos Laboratory Accreditation & Analytical Method

The samples were analyzed by AIH Laboratory located at 2556 West Woodland Drive, Anaheim, California 92801 (562) 860-2201 (NVLAP Code 500079-0).

Collected bulk samples were analyzed using polarized light microscopy (PLM) for asbestos content in accordance with the United States Environmental Protection Agency's (USEPA) *Determination of Asbestos in Bulk Building Materials: EPA/600/R-93/116, July 1993.*

5.2 Asbestos Sampling Protocol

The sampling was conducted using guidelines set forth in US Environmental Protection Agency (EPA) *Federal Register 40 CFR Part 763*. Based on the requirements of the EPA, (40 CFR 763), a homogeneous material is defined as “an area of surfacing material, thermal system insulation material or miscellaneous material that is uniform in color and texture.” The regulation requires that a minimum number of samples be collected from each homogeneous material. If one sample in a homogeneous material is found to contain asbestos, the entire homogeneous material should be considered to be asbestos-containing.

The EPA and California Occupational Safety and Health Administration (Cal-OSHA) have defined building materials containing asbestos as follows:

- **Asbestos-Containing-Material (ACM)** - any material containing greater than 1 percent (>1%) asbestos as determined by PLM, *40 Code of Federal Regulations (CFR) Part 61, Subpart M and The South Coast Air Quality Management District (SCAQMD) Rule 1403*.
- **Asbestos-Containing-Construction-Material (ACCM)** - any material containing less than one percent (<1%) asbestos and greater than one tenth of one percent (>0.1%) asbestos by 1000-point count analysis, *California Code of Regulations (CCR), Title 8, Section 1529*.

5.3 Asbestos Sample Results

Table I: Summary of Bulk Sample Results

Sample No.:	Material	Material Location	Asbestos Content	Condition	Friable	Est. Quantity
A-1, A-2, A-3, A-4, A-5, A-6, A-7	Smooth plaster	Interior Walls/ ceilings in Units A, B, C, D, also all heaters' closets, storage rooms	None Detected	Damaged	Yes	10,000 square feet
A-8, A-9, A-10	Button board	Interior walls and ceilings- Units A, B, C, D, also all heaters' closets, storage rooms (Under Plaster)	None Detected	Damaged	No	10,000 square feet
A-11, A-12, A-13	Grout for ceramic tile	Under all ceramic units A, B, C, D,	None Detected	Intact	No	500 square feet.
A-14, A-15, A-16	Wood pattern sheet vinyl flooring	Unit A- Kitchen, Living Room, Hallway	None Detected	Intact	No	200 square feet
A-17, A-18, A-19	White sheet vinyl flooring	Unit A- kitchen, living room, hallway (under wood sheet vinyl)	None Detected	Intact	No	200 square feet
A-20, A-21, A-22	White square pattern sheet vinyl flooring	Unit B- Kitchen and living room	None Detected	Intact	No	200 square feet
A-23, A-24, A-25	Beige square pattern sheet vinyl floor (two layers)	Unit C- Kitchen and Living Room	None Detected	Intact	Yes	200 square feet
A-26, A-27, A-28	Pink sheet vinyl flooring	Unit C- restroom	None Detected	Intact	Yes	64 square feet
A-29, A-30, A-31	White/grey square pattern sheet flooring with black mastic	Unit D- Kitchen and Living Room	None Detected	Intact	No	200 square feet

Not sampled	6" transite pipe	At all heater exhaust-crawlspace up to roof level- units A, B, C, D	*Assumed >1% Asbestos	Intact	No	60 linear feet
A-32, A-33, A-34	Beige sheet vinyl flooring	Unit D- restroom	None Detected	Intact	No	64 square feet
A-35, A-36, A-37, A-38, A-39	Roofing debris	Ceiling space at Units A, B, D,	None Detected	Damaged	Yes	2,700 square feet
A-40, A-41, A-42	12" grey floor tile with yellow glue	Unit D Hallway patch	2% Chrysotile-Grey floor tile, None Detected-mastic	Intact	No	20 square feet
A-44, A-45, A-46, A-47, A-48, A-49, A-50	Stucco	Exterior walls/ceilings	**<0.1% Asbestos by 1000 pt. count	Intact	No	4,200 square feet
A-51, A-52, A-53	Black barrier paper	Exterior walls/ceilings	None Detected	Intact	No	4,200 square feet
A-54, A-55, A-56	Brown shingle roof core	Roof all levels	None Detected	Intact	No	3,000 square feet
A-57, A-58, A-59	Grey roof mastic	Roof, penetrations, curbs	None Detected	Intact	No	50 square feet
A-60, A-61, A-62	Stucco	Garage exterior	**<0.1% Asbestos by 1000 pt. count	Intact	No	950 square feet
A-63, A-64, A-65	Barrier paper	Garage exterior- under stucco	None Detected	Intact	No	950 square feet
A-66, A-67, A-68	Brown shingle roof core	Garage- roof	None Detected	Intact	No	1,000 square feet.
A-69, A-70, A-71	Magnesite flooring	Exterior stairway, loading treads, and risers	**<0.1% Asbestos by 1000 pt. count	Intact	No	200 square feet
A-72, A-73, A-74	Window putty	Garage, Main Building, Stairway Window	None Detected	Intact	No	20 linear feet

***Fabian Ruvalcaba, a Cal OSHA Certified Asbestos Consultant is assuming that these materials contain asbestos greater than one percent (>1%) and is subject to the South Coast Air Quality Management District, Rule 1403, based on experience with similar materials, previous sampling, and in lieu of redundant sampling.**

******For materials reported below the Cal-OSHA asbestos regulated level of less than <0.1% by 1,000-point count analysis, the laboratory reported "Asbestos fibers were observed in the field of view but not counted as points". Although the results are reported to be below the Cal-OSHA regulated level of <0.1% but considering that asbestos fibers were observed by the laboratory, and in an abundance of caution, CES recommends that any work activities which disturbs the material be conducted using appropriate worker protection and engineering controls.**

5.4 Asbestos Recommendations

Removal of ACMs should be conducted by a licensed asbestos abatement Contractor utilizing isolation control methods and dispose of properly. Workers handling ACMs shall be asbestos trained and shall wear the appropriate personal protective equipment.

The USEPA (locally enforced by South Coast Air Quality Management District (SCAQMD)) requires that all asbestos materials be removed prior to any renovation or demolition activities that may impact the material. The USEPA recommends that a proactive, in-place management program be put in place whenever asbestos is discovered in a building. Asbestos materials that are not damaged may be managed in place with a good operations and maintenance (O&M) program.

A review of all other asbestos survey information available for the property in conjunction with these results should be conducted prior to proceeding with any project activities and/or when a change in the project scope is developed. If suspect asbestos-containing materials will be impacted that are not addressed in this survey or in the historical survey records, additional sampling should be conducted prior to disturbance. Historical records, typically, have limited value for project planning and should be verified with confirmatory inspection and additional sampling as necessary prior to project planning.

Materials may be impacted by age, wind/water damage, mechanical abrasion, and maintenance, renovation & demolition activities. As such, all identified (including presumed ACMs) should be periodically inspected to verify that they remain in good condition. If the identified ACMs change in condition, CES recommends that a Certified Asbestos Consultant conducts an assessment of the change in condition and provide appropriate actions to repair, enclose, remove or encapsulate the ACMs per current regulatory requirements.

At the time of the survey, the building areas were vacant. CES was able to perform a destructive investigation, but concealed conditions may exist. Additional suspect materials could be located between walls, in voids, or in other concealed areas which may have been inaccessible at the time of the survey. A survey below soil was not included in our scope of work. If any suspect materials or painted surfaces are found which have not been represented in this report, CES recommends that work stops until those materials can be sampled for asbestos and/or lead content.

6.0 LEAD SURVEY AND SAMPLING

CES conducted sampling for lead by using on-site XRF analysis and collection of bulk paint chip samples. For the purpose of this survey and inspection, lead in paint is define as described below:

- **Lead-Based Paint (LBP)**, according to the California Childhood Lead Poisoning Prevention Branch regulations (Title 17, Division 1, Chapter 8), US Environmental Protection Agency (EPA), and US Department of Housing and Urban Development (HUD) is defined as paint or other surface coating with lead content equal to or greater than 1.0 mg/cm² of surface area using X-Ray Fluorescence (XRF) testing or 5,000 parts per million (ppm) (0.5 percent by weight) by paint chip analysis. The County of Los Angeles Department of Public Health Services, Childhood Lead Poisoning Prevention Program, has defined “dangerous levels of lead-bearing substances” as paint or other surface coating with lead content greater than 0.7 mg.cm² (Los Angeles County). Lead related work impacting LBP is subject to the requirements of all the above-mentioned regulations, furthermore, when disturbed for construction purposes, the work is also subject to the *Cal/OSHA Title 8 CCR, Section 1532.1(d) requirements*.
- **Lead-Containing Paints (LCP)** according to *Cal/OSHA Title 8 CCR, Section 1532.1(d)* are defined as paints reported with any detectable levels of lead by paint chip analysis, this may include lead paint samples reported by the laboratory below the laboratory “Reporting Limit” (RL). Employer who has a workplace or operation covered by this standard shall initially determine if any employee may be exposed to lead at or above the action level. The employer shall assure that no employee is exposed to lead at concentrations greater than fifty micrograms per cubic meter of air (50µg/m³) averaged over an 8-hour period.

6.1 Lead Paint Chip Sampling Protocol

CES conducted an assessment and collected testing by XRF and bulk paint chip samples of representative accessible painted surfaces observed in the areas included in our scope of work.

Representative painted surfaces were preliminary screened for lead-based paint using a portable XRF spectrum analyzer (Thermo Niton XLp 300). Field calibration checks were performed prior, during and after each XRF lead inspection to determine that the device was functioning within acceptable limits (tolerance) determined by the manufacturer. Three readings of a red 1.04 mg/cm² Standard Reference Material (SRM) paint film, developed by the ThermoFisher Scientific were collected. The XRF unit was determined to be functioning within proper operating parameters for this project.

Following the XRF screening, confirmation paint chip samples were also collected to determine the weight percent concentration in the painted surfaces for construction safety as defined by Title 8 CCR Section 1532.1. Paint chip samples analysis was conducted as per EPA Method SW846/7420 by a laboratory accredited by the Environmental Laboratory Accreditation Program.

Survey consisted of the following:

- Visual assessment of painted surfaces
- On-site direct reading analysis of suspect lead coated surfaces and paints
- Collection of bulk paint chip samples down to the substrate
- Documentation of the physical condition and location of suspect materials
- Submitting bulk paint chip samples to a laboratory for analysis on lead content
- Preparing a report of findings and conclusions.

6.2 LEAD-BASED PAINT USING XRF TESTING

Table II: LEAD BASED PAINT FINDINGS

Lead-Based Paint using XRF testing						
Sample No.	Color	Substrate	Component	Location	Level of Lead	Condition
27	White	Ceramic	Countertop	Unit A- kitchen	26.7 mg/cm ²	Intact
28	Grey	Ceramic	Wall	Unit A- restroom	22.9 mg/cm ²	Intact
29	Grey	Ceramic	Floor	Unit A- restroom	53.8 mg/cm ²	Intact
30	White	Ceramic	Countertop	Unit B- kitchen	22.5 mg/cm ²	Intact
31	Blue	ceramic	Floor	Unit B- restroom	9.1 mg/cm ²	Intact
32	Pink	Ceramic	Floor	Unit B - restroom	8.8 mg/cm ²	Intact
33	Beige	Ceramic	Wall	Unit B -restroom	8.1 mg/cm ²	Intact
34	White	Ceramic	Tub	Unit B - restroom	8.6 mg/cm ²	Intact
35	White	Ceramic	Toilet	Unit B -restroom	27.8 mg/cm ²	Intact
36	Pink	Ceramic	Floor	Unit D -restroom	23.2 mg/cm ²	Intact
37	White	Ceramic	Countertop	Unit D- kitchen	27.6 mg/cm ²	Intact
38	Yellow	Ceramic	Wall	Unit C - restroom	3.7 mg/cm ²	Intact
39	White	Ceramic	Tub	Unit C- restroom	7.0 mg/cm ²	Intact
40	White	Ceramic	Sink	Unit C- restroom	4.5 mg/cm ²	Intact
41	White	Ceramic	Toilet	Unit C- restroom	5.3 mg/cm ²	Intact
42	White	Ceramic	Countertop	Unit C- kitchen	3.0 mg/cm ²	Intact
46	White	Wood	Door casing	Unit D- living room	1.4 mg/cm ²	Intact
47	White	Wood	Window casing	Unit D- living room	1.9 mg/cm ²	Intact
48	White	Wood	Wall trim	Unit D- living room	4.5 mg/cm ²	Intact
49	Brown	Wood	Door	Unit D-living room	3.7 mg/cm ²	Intact
53	White	Wood	Cabinet	Unit D- kitchen	3.8 mg/cm ²	Intact
54	White	Wood	Cabinet door	Unit D - kitchen	2.0 mg/cm ²	Intact
55	Pink	Wood	handrail	16010-exterior	3.3 mg/cm ²	Intact
56	Pink	Wood	Stairs	16010- exterior	8.6 mg/cm ²	Intact
57	Brown	Wood	Door	16010- exterior	8.7 mg/cm ²	Intact
58	Pink	wood	Facia	16010- exterior	8.5 mg/cm ²	Intact
59	Pink	wood	Eve	16010- exterior	8.2 mg/cm ²	Intact

Table II continued:

Sample No.	Color	Substrate	Component	Location	Level of Lead (ppm)	Condition
70	Pink	Wood	Window case	16010- exterior	3.4 mg/cm ²	Intact
71	Pink	Wood	Wall trim	16010-exterior	9.7 mg/cm ²	Intact
75	Pink	Wood	Column	16010- exterior	10.6 mg/cm ²	Intact
76	Pink	Wood	Beam	16010-exterior	1.2 mg/cm ²	Intact
77	Pink	Wood	Garage door	16010- exterior	4.2 mg/cm ²	Intact
78	Pink	Wood	Garage door casing	16010-exterior	1.2 mg/cm ²	Intact
79	Pink	Wood	Door casing	16010- exterior	6.7 mg/cm ²	Intact
Lead-Based Paint by Paint Chip Sampling						
PC-1	White	Plaster	Ceiling	Units A, B, C, D	8,929 ppm	Damaged (500 square feet)
PC-2	White	Plaster	Wall	Interior walls and ceilings	5,181 ppm	Damaged (500 square feet)
PC-5	Orange	Metal	Flashing	16010 Exterior	7,067	Intact

Table III *

Results representative of paint chip sampling

Sample No.	Color	Substrate	Component	Location	Level of Lead (ppm)	Condition
Refer to Appendix E in this report for a complete listing of identified LCP. CES recommends that all paints including paints which may not be listed in Appendix E be handled as a LCP. LCP, according to Cal/OSHA <i>Title 8 CCR, Section 1532.1(d)</i> are defined as paints reported with any detectable levels of lead by paint chip analysis. When disturbed for construction purposes, these surfaces are subject to Cal/OSHA exposure assessment requirements.						

6.4 Lead Recommendations

Lead-based paint (LBP) and lead-containing paint (LCP) listed in Tables II and III above, for construction purposes, workers who disturb surfaces with LBP, or LCP are subject to regulation under *Title 8 CCR, Section 1532.1 (d)*. Employer who has a workplace or operation covered by this standard shall initially determine if any employee may be exposed to lead at or above the action level. The employer shall assure that no employee is exposed to lead at concentrations greater than fifty micrograms per cubic meter of air (50µg/m³) averaged over an 8-hour period. If the exposure levels are likely or exceed the Permissible Exposure levels (PEL), or if a Lead Abatement Hazard is being conducted, the work may also be subject to the California Childhood Lead Poisoning Prevention Branch regulations (Title 17, Division 1, Chapter 8) which requires certifications of workers and project supervisors.

CES recommends that engineering controls, respiratory protection and personal protective equipment be used at the start of any project that disturbs painted surfaces until compliance with 1532.1 can be documented through the use of representative air sampling data.

6.6 Lead Waste Disposal

For painted surfaces reported as lead based and/or containing paints listed in Tables II and III above, waste characterization sampling will be required prior to waste disposal. The waste shall be segregated into separate waste streams. A sufficient number of samples should be collected to adequately characterize the waste stream. Sample analysis will include at a minimum, Total Threshold Limit Concentration (TTLC), Soluble Threshold Limit Concentration (STLC) and Toxicity Characteristic Leaching Procedure (TCLP) to determine if waste is non-hazardous, RCRA or California hazardous waste in accordance with regulations in the state of California.

7.0 LIMITATIONS

The South Coast Air Quality Management District requires that a current asbestos survey be conducted on any building where renovations or demolition will occur regardless of the date of construction.

The intent of this survey was to identify accessible ACM, LBP, and LCP.

The survey is intended to be used for construction purposes only. The user of this report shall verify any discrepancy which may be discovered during the project regarding the results listed Table I, II and III in this report and comparing them to the laboratory results found in Appendix B and D.

CES conducted the survey with the standard of care ordinarily exercised by qualified and reputable members of the environmental/industrial hygiene profession based on conditions and practices observed at the property and information provided to CES related to the project and/or purpose of the survey at the time of the investigation. Although the survey was comprehensive there may be areas and materials which may have been inaccessible at the time of the survey. If any materials are discovered during the project which are not included in this report, the work should stop and a survey of those areas and materials should be conducted prior to any renovation, maintenance, demolition, or other activity that may cause disturbance to the materials.

This report does not intend to identify all hazards or unsafe practices, nor to indicate that other hazards or unsafe conditions have been identified. As such, CES does not guarantee or warrant that the facility or workplace is safe; nor does CES's involvement in this property relieve the Client, building owner/operator or tenant of any continuing responsibility of providing a safe facility or living space.

CES has applied our best effort to locate all suspect ACMs, LBP, and LCP in the areas included in our survey scope of work.

Below floor slabs areas or other areas determined by CES's personnel as unsafe to access, were not included in this survey scope of work.

CES interpreted the results provided by the laboratory analysis and compared the results to the relevant regulatory levels. We have relied on the laboratory to conduct the quality controls required for the analysis, as required to maintain their accreditation. It is our understanding that the laboratory QA/QC limits were within the acceptable levels for the samples analyzed.

The analyzing laboratory quantifies asbestos concentrations by calibrated visual estimation using standard PLM methodology, with detection of asbestos is material/matrix dependent. Detection of trace asbestos (<1%) may not be reliable or reproducible by PLM and percentage of asbestos weight cannot be determined with standard PLM methodology. Confirmation of asbestos concentrations within complex matrices (i.e. plaster, gypsum wallboard/taping/joint compounds, stucco, resilient flooring, roofing) or when asbestos concentrations are 1% or less may warrant additional analysis by PLM point counting, gravimetric reduction or Transmission Electron Microscopy for proper characterization of asbestos-containing materials and/or waste-stream analysis.

We will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report, expressed or implied.

CES does not guarantee or warrant that the facility or workplace is safe; nor does CES's involvement in this property relieve the Client, building owner/operator or tenant of any continuing responsibility of providing a safe facility or living space.

This report was based on those conditions observed on the day the field evaluation was accomplished. In the event that changes in the nature of the property have occurred, or additional relevant information about the property is subsequently discovered, the findings contained in this report may not be valid unless these changes and additional relevant information are reviewed, and the conclusion of this report is modified and verified in writing.


Material quantities included in this report are of observed material and provided as a best estimate for information only and shall not be used as a reliable quantity by any contractor for preparing removal bids. The Contractor shall be solely responsible for assessing the type, extent, and quantity of material to be removed in each area of the project in preparing each project bid.

The property owner is responsible for ensuring that the information, conclusions, and recommendations disclosed in this report are brought to the attention of all appropriate staff, contractors, regulatory agencies etc. as required.


CES excluded sampling of wood, metal, concrete, asphalt paving, ceramic materials on walls and floors. Based on industry practices and standardized sampling protocols, these materials are not known to contain asbestos and, therefore, not considered to be suspect asbestos-containing materials for this survey.

If you have any questions or concerns, feel free to contact the undersigned at the number listed below.

This report was prepared by:


Fabian Ruvalcaba
Project Manager
CES Environmental Consultants, Inc.

This report was reviewed by:


Elmer Ivan Castro
Senior Project Manager
CES Environmental Consultants, Inc.

APPENDIX A:
BULK SAMPLE INVENTORY-ASBESTOS

Site: 16010 So. Harvard Ave Gardena, CA
Inspector: Fabian Ruvalcaba
Project Location: 16010 S. Harvard Ave. Gardena, CA

Bulk Sample Inventory

Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition	Result
July 19, 2021							
A-1	Smooth plaster	Unit A- Kitchen South West	Interior walls and ceilings- Units A, B, C, D, Also all heaters closets, storage rooms	10,000 sq. ft.	Yes	Damaged	None Detected
A-2		Unit B- Kitchen North East					None Detected
A-3		Unit B- Living Room South West					None Detected
A-4		Unit C- Bedroom 1 South West					None Detected
A-5		Unit C- Restroom ceiling South West					None Detected
A-6		Unit D- Closet South West					None Detected
A-7		2nd Floor- Heater closet North East					None Detected
A-8	Button Board	Unit A- Kitchen South West	Interior walls and ceilings- Units A, B, C, D, Also all heaters closets, storage rooms (Under Plaster)	10,000 sq. ft.	Yes	Damaged	None Detected
A-9		Unit B- Kitchen North East					None Detected
A-10		Unit B- Living Room South West					None Detected
A-11	Grout for ceramic tile	Unit A- Restroom wall North East	Under all ceramic units A, B, C, D,	500 sq. ft.	No	Intact	None Detected
A-12		Unit B- Kitchen Counter top					None Detected
A-13		Unit D- Restroom South Center					None Detected
A-14	Wood pattern sheet vinyl floor	Unit A- Kitchen Center	Unit A- Kitchen, Living Room, Hallway	200 sq. ft.	No	Intact	None Detected
A-15		Unit A- Kitchen South West					None Detected
A-16		Unit A- Hallway South Center					None Detected

Bulk Sample Inventory

Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition	Result
A-17	White sheet vinyl floor	Unit A- Kitchen Center	Unit A- Kitchen, living room, hallway (under wood sheet vinyl)	200 sq. ft.	No	Intact	None Detected
A-18		Unit A- Kitchen South West					None Detected
A-19		Unit A- Hallway South Center					None Detected
A-20	White square pattern sheet vinyl flooring	Unit B- Kitchen Center	Unit B- Kitchen and Living Room	200 sq. ft.	No	Intact	None Detected
A-21		Unit B- Living Room- South Center					None Detected
A-22		Unit B- Living Room Center					None Detected
Note: Nailed in carpet at, living rooms, bedrooms, hallways at unit A, B.							
A-23	Beige square pattern sheet vinyl floor (two layers)	Unit C- Kitchen South West	Unit C- Kitchen and Living Room	200 sq. ft.	Yes	Intact	None Detected
A-24		Unit C- Living Room Center					None Detected
A-25		Unit C- Living Room South West					None Detected
A-26	Pink sheet vinyl flooring	Unit C- Restroom Center	Unit C- Restroom	64 sq. ft.	Yes	Intact	None Detected
A-27		Unit C- Restroom South West					None Detected
A-28		Unit C- Restroom North East					None Detected
A-29	White/grey square pattern sheet flooring with black mastic	Unit D- Kitchen Center	Unit D- Kitchen and Living Room	200 sq. ft.	No	Intact	None Detected
A-30		Unit D- Kitchen South West					None Detected
A-31		Unit D- Living Room Center					None Detected
A-32	Beige sheet vinyl flooring	Unit D- Restroom North East	Unit D- Restroom	64 sq. Ft.	No	Intact	None Detected
A-33		Unit D- Restroom South West					None Detected
A-34		Unit D- Restroom South East					None Detected

Inspector: Fabian Ruvalcaba
Project Location: 16010 S. Harvard Ave. C

Note: sample A-43 not used

Bulk Sample Inventory

Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition	Result
A-54	Brown Shingle roof core	Roof- East Center	Roof all levels	3,000 sq. ft	No	Intact	None Detected
A-55		Roof- Center					None Detected
A-56		Roof- West Center					None Detected
A-57	Grey roof mastic	Roof- Center	Roof- Penetrations, patches	50 sq. ft.	No	Intact	None Detected
A-58		Roof- South East					None Detected
A-59		Roof- South East					None Detected
A-60	Stucco	Garage- East Center	Garage (Exterior)	950 sq. ft.	No	Intact	<0.1% Asbestos by 1000 pt. count
A-61		Garage- North East					<0.1% Asbestos by 1000 pt. count
A-62		Garage- South West					<0.1% Asbestos by 1000 pt. count
A-63	Barrier paper	Garage- East Center	Garage (Exterior)	950 sq. ft.	No	Intact	None Detected
A-64		Garage- North East					None Detected
A-65		Garage- South West					None Detected
A-66	Brown Shingle roof core	Garage roof- South West	Garage- Roof	1,000 sq. ft.	No	Intact	None Detected
A-67		Garage roof- North East					None Detected
A-68		Garage roof- South Center					None Detected
A-69	Magnesite flooring	Exterior stairway- South Center	Exterior stairway loading treads and risers	200 sq. ft.	No	Intact	<0.1% Asbestos by 1000 pt. count
A-70		Exterior stairway- South Center					<0.1% Asbestos by 1000 pt. count
A-71		Exterior stairway- North Center					<0.1% Asbestos by 1000 pt. count

Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition	Result
A-72	Window Putty	Garage- North West	Garage, Main Building, Stairway Window	20 In. ft.	No	Intact	None Detected
A-73		Garage- North West					None Detected
A-74		2nd Floor- Stairway West Center					None Detected
Not sampled	6" transite pipe	Known ACM	At all heater exhaust-crawl/space up to roof level- units A, B, C, D	60 In. ft	No	Intact	Assumed >1% Chrysotile

APPENDIX B:

**SUMMARY OF ASBESTOS BULK SAMPLES, ANALYTICAL DATA AND
CHAIN OF CUSTODY**



BULK ASBESTOS FIBER ANALYSIS

BY POLARIZED LIGHT MICROSCOPY



Phone: (562) 860-2201

www.aihlab.com

2556 W Woodland Dr Anaheim, CA 92801

Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111433
Samples Submitted: 15
Samples Analyzed: 15
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143301

Client ID: A-1

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains
2.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143302

Client ID: A-2

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	None Detected	None Detected	Binder/Filler, Mineral Grains
2.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143303

Client ID: A-3

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	None Detected	None Detected	Binder/Filler, Mineral Grains
2.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143304

Client ID: A-4

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	None Detected	None Detected	Binder/Filler, Mineral Grains
2.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143305

Client ID: A-5

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains
2.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains



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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111433
Samples Submitted: 15
Samples Analyzed: 15
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143306

Client ID: A-6

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains
2.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143307

Client ID: A-7

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains
2.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143308

Client ID: A-8

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White chalky material with paper	None Detected	Cellulose 5%	Gypsum/Binder

Lab ID: 211143309

Client ID: A-9

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White chalky material with paper	None Detected	Cellulose 5%	Gypsum/Binder

Lab ID: 211143310

Client ID: A-10

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White chalky material with paper	None Detected	Cellulose 5%	Gypsum/Binder



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Project Manager: Cesar Ruvalcaba

Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601

Project Number: No Information Provided

Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111433

Samples Submitted: 15

Samples Analyzed: 15

Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143311

Client ID: A-11

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White ceramic tile	None Detected	None Detected	Binder/Filler
2.	White sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains
3.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143312

Client ID: A-12

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains
2.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143313

Client ID: A-13

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains
2.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143314

Client ID: A-14

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown sheet vinyl	None Detected	Glass Fibers 4%	Vinyl/Binder, Synthetic Foam
2.	Grey adhesive	None Detected	None Detected	Binder/Filler
3.	Dark brown brittle material	None Detected	None Detected	Binder/Filler



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Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111433
Samples Submitted: 15
Samples Analyzed: 15
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143315

Client ID: A-15

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown sheet vinyl	None Detected	Glass Fibers 4%	Vinyl/Binder, Synthetic Foam
2.	Grey adhesive	None Detected	None Detected	Binder/Filler
3.	Dark brown brittle material	None Detected	None Detected	Binder/Filler

Analyzed by: Vivian Le

Signature: 

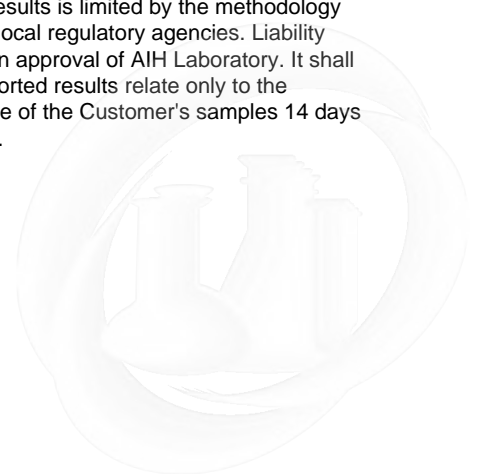
Date: 07-24-2021

Reviewed by: Zubair Ahmed

Signature: 

Date: 07-24-2021

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Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111434
Samples Submitted: 10
Samples Analyzed: 10
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143401

Client ID: A-16

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey sheet vinyl	None Detected	Glass Fibers 3%	Vinyl/Binder, Synthetic Foam
2.	Grey adhesive	None Detected	None Detected	Binder/Filler
3.	Dark grey hard brittle material	None Detected	None Detected	Binder/Filler

Lab ID: 211143402

Client ID: A-17

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey adhesive	None Detected	None Detected	Binder/Filler
2.	White sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
3.	Tan fibrous backing	None Detected	Cellulose 60%	Binder/Filler
4.	Trace of tan mastic	None Detected	Cellulose 2%	Mastic/Binder
5.	Green fibrous backing	None Detected	Cellulose 60%	Binder/Filler
6.	Dark brown brittle mastic	None Detected	None Detected	Mastic/Binder

Lab ID: 211143403

Client ID: A-18

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey adhesive	None Detected	None Detected	Binder/Filler
2.	White sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
3.	Tan fibrous backing	None Detected	Cellulose 60%	Binder/Filler
4.	Trace of tan mastic	None Detected	Cellulose 2%	Mastic/Binder
5.	Green fibrous backing	None Detected	Cellulose 60%	Binder/Filler
6.	Dark brown brittle mastic	None Detected	None Detected	Mastic/Binder



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Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111434
Samples Submitted: 10
Samples Analyzed: 10
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143404

Client ID: A-19

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey adhesive	None Detected	None Detected	Binder/Filler
2.	White sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
3.	Tan fibrous backing	None Detected	Cellulose 60%	Binder/Filler
4.	Trace of tan mastic	None Detected	Cellulose 2%	Mastic/Binder
5.	Green fibrous backing	None Detected	Cellulose 60%	Binder/Filler
6.	Dark brown brittle mastic	None Detected	None Detected	Mastic/Binder

Lab ID: 211143405

Client ID: A-20

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
2.	Cream fibrous backing	None Detected	Cellulose 60%	Binder/Filler
3.	Grey powdery material	None Detected	None Detected	Binder/Filler

Lab ID: 211143406

Client ID: A-21

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
2.	Cream fibrous backing	None Detected	Cellulose 60%	Binder/Filler
3.	Grey powdery material	None Detected	None Detected	Binder/Filler



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Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111434
Samples Submitted: 10
Samples Analyzed: 10
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143407

Client ID: A-22

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
2.	Cream fibrous backing	None Detected	Cellulose 60%	Binder/Filler
3.	Grey powdery material	None Detected	None Detected	Binder/Filler

Lab ID: 211143408

Client ID: A-23

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
2.	Cream fibrous backing	None Detected	Cellulose 60%	Binder/Filler
3.	Grey powdery material	None Detected	None Detected	Binder/Filler
4.	Beige sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
5.	Cream fibrous backing	None Detected	Cellulose 60%	Binder/Filler
6.	Trace of yellow mastic	None Detected	Cellulose 2%	Mastic/Binder

Lab ID: 211143409

Client ID: A-24

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
2.	Cream fibrous backing	None Detected	Cellulose 60%	Binder/Filler
3.	Yellow mastic	None Detected	Cellulose 2%	Mastic/Binder
4.	Beige sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
5.	Cream fibrous backing	None Detected	Cellulose 60%	Binder/Filler
6.	Trace of yellow mastic	None Detected	Cellulose 2%	Mastic/Binder



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Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111434
Samples Submitted: 10
Samples Analyzed: 10
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143410

Client ID: A-25

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
2.	Cream fibrous backing	None Detected	Cellulose 60%	Binder/Filler
3.	Yellow mastic	None Detected	Cellulose 2%	Mastic/Binder
4.	Beige sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
5.	Cream fibrous backing	None Detected	Cellulose 60%	Binder/Filler
6.	Trace of yellow mastic	None Detected	Cellulose 2%	Mastic/Binder

Analyzed by: Vivian Le

Signature:

Date: 07-23-2021

Reviewed by: Zubair Ahmed

Signature:

Date: 07-23-2021

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Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111435
Samples Submitted: 14
Samples Analyzed: 14
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143501

Client ID: A-26

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
2.	Grey chalky fibrous backing with mastic	None Detected	Glass Fibers 8%, Cellulose 4%	Binder/Filler, Mastic/Binder

Lab ID: 211143502

Client ID: A-27

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
2.	Grey chalky fibrous backing with mastic	None Detected	Glass Fibers 8%, Cellulose 4%	Binder/Filler, Mastic/Binder

Lab ID: 211143503

Client ID: A-28

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
2.	Grey chalky fibrous backing with mastic	None Detected	Glass Fibers 8%, Cellulose 4%	Binder/Filler, Mastic/Binder

Lab ID: 211143504

Client ID: A-29

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Beige sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
2.	Cream fibrous backing	None Detected	Cellulose 60%	Binder/Filler
3.	Brown mastic (on wood)	None Detected	Cellulose 2%	Mastic/Binder



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Project Manager: Cesar Ruvalcaba

Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601

Project Number: No Information Provided

Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111435

Samples Submitted: 14

Samples Analyzed: 14

Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143505

Client ID: A-30

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Beige sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
2.	Cream fibrous backing with trace of cream mastic	None Detected	Cellulose 57%	Binder/Filler, Mastic/Binder
3.	Brown mastic (on wood)	None Detected	Cellulose 2%	Mastic/Binder

Lab ID: 211143506

Client ID: A-31

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Beige sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
2.	Cream fibrous backing	None Detected	Cellulose 60%	Binder/Filler
3.	Brown mastic (on wood)	None Detected	Cellulose 2%	Mastic/Binder

Lab ID: 211143507

Client ID: A-32

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Cream sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
2.	Grey fibrous backing	None Detected	Cellulose 60%	Binder/Filler
3.	Cream/yellow mastic	None Detected	Cellulose 2%	Mastic/Binder

Lab ID: 211143508

Client ID: A-33

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Cream sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
2.	Grey fibrous backing	None Detected	Cellulose 60%	Binder/Filler
3.	Cream/yellow mastic	None Detected	Cellulose 2%	Mastic/Binder



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Project Manager: Cesar Ruvalcaba

Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601

Project Number: No Information Provided

Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111435

Samples Submitted: 14

Samples Analyzed: 14

Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143509

Client ID: A-34

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Cream sheet vinyl	None Detected	None Detected	Vinyl/Binder, Synthetic Foam
2.	Grey fibrous backing	None Detected	Cellulose 60%	Binder/Filler
3.	Cream/yellow mastic	None Detected	Cellulose 2%	Mastic/Binder

Lab ID: 211143510

Client ID: A-35

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	None Detected	Cellulose 60%	Asphalt/Binder

Lab ID: 211143511

Client ID: A-36

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	None Detected	Cellulose 60%	Asphalt/Binder

Lab ID: 211143512

Client ID: A-37

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic built-up material with granules	None Detected	Cellulose 30%	Asphalt/Binder, Mineral Grains

Lab ID: 211143513

Client ID: A-38

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic built-up material with granules	None Detected	Cellulose 30%	Asphalt/Binder, Mineral Grains

Lab ID: 211143514

Client ID: A-39

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic built-up material with granules	None Detected	Cellulose 30%	Asphalt/Binder, Mineral Grains



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Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111435
Samples Submitted: 14
Samples Analyzed: 14
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Analyzed by: Cameron
Zimmerman

Signature: 

Date:
07-23-2021

Reviewed by: Zubair Ahmed

Signature: 

Date:
07-23-2021

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Project Manager: Cesar Ruvalcaba

Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601

Project Number: No Information Provided

Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111436

Samples Submitted: 13

Samples Analyzed: 13

Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143601

Client ID: A-40

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey floor tile	Chrysotile 2%	Cellulose 2%	Binder/Filler
2.	Brown/tan mastic	None Detected	Cellulose 2%	Mastic/Binder

Lab ID: 211143602

Client ID: A-41

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey floor tile	Chrysotile 2%	Cellulose 2%	Binder/Filler
2.	Brown/tan mastic	None Detected	Cellulose 2%	Mastic/Binder

Lab ID: 211143603

Client ID: A-42

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey floor tile	Chrysotile 2%	Cellulose 2%	Binder/Filler
2.	Brown/tan mastic	None Detected	Cellulose 2%	Mastic/Binder

Lab ID: 211143605

Client ID: A-44

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	Chrysotile <1%	Cellulose <1%	Binder/Filler, Mineral Grains
2.	Light green sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains
3.	Grey sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains



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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111436
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143606

Client ID: A-45

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	Chrysotile <1%	Cellulose <1%	Binder/Filler, Mineral Grains
2.	Grey sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains
3.	Light grey sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 211143607

Client ID: A-46

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	Chrysotile <1%	Cellulose <1%	Binder/Filler, Mineral Grains
2.	Light green sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains
3.	Grey sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 211143608

Client ID: A-47

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	Chrysotile <1%	Cellulose <1%	Binder/Filler, Mineral Grains
2.	Light green sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains
3.	Grey sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 211143609

Client ID: A-48

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	Chrysotile <1%	Cellulose <1%	Binder/Filler, Mineral Grains
2.	Light green sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains
3.	Grey sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains



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BULK ASBESTOS FIBER ANALYSIS

BY POLARIZED LIGHT MICROSCOPY



Phone: (562) 860-2201
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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111436
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143610

Client ID: A-49

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	Chrysotile <1%	Cellulose <1%	Binder/Filler, Mineral Grains
2.	Light green sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains
3.	Grey sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 211143611

Client ID: A-50

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material with paint	Chrysotile <1%	Cellulose <1%	Binder/Filler, Mineral Grains
2.	Light green sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains
3.	Grey sandy material	None Detected	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 211143612

Client ID: A-51

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	None Detected	Cellulose 60%	Asphalt/Binder

Lab ID: 211143613

Client ID: A-52

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	None Detected	Cellulose 60%	Asphalt/Binder

Lab ID: 211143614

Client ID: A-53

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	None Detected	Cellulose 60%	Asphalt/Binder



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BULK ASBESTOS FIBER ANALYSIS
BY POLARIZED LIGHT MICROSCOPY

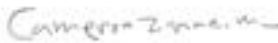


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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111436
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Analyzed by: Cameron
Zimmerman

Signature: 

Date:
07-23-2021

Reviewed by: Zubair Ahmed

Signature: 

Date:
07-23-2021

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BULK ASBESTOS FIBER ANALYSIS

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Client Name: CES Environmental Consultants, Inc

Project Manager: Cesar Ruvalcaba

Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601

Project Number: No Information Provided

Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111437

Samples Submitted: 15

Samples Analyzed: 15

Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143701

Client ID: A-54

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic material with granules	None Detected	Glass Fibers 15%	Asphalt/Binder, Mineral Grains
2.	Black fibrous asphaltic felt	None Detected	Cellulose 50%	Asphalt/Binder

Lab ID: 211143702

Client ID: A-55

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic material with granules	None Detected	Glass Fibers 15%	Asphalt/Binder, Mineral Grains
2.	Black fibrous asphaltic felt	None Detected	Cellulose 50%	Asphalt/Binder

Lab ID: 211143703

Client ID: A-56

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic material with granules	None Detected	Glass Fibers 15%	Asphalt/Binder, Mineral Grains
2.	Black fibrous asphaltic felt	None Detected	Cellulose 50%	Asphalt/Binder

Lab ID: 211143704

Client ID: A-57

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey soft rubbery material	None Detected	None Detected	Binder/Filler

Lab ID: 211143705

Client ID: A-58

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey soft rubbery material	None Detected	None Detected	Binder/Filler



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BULK ASBESTOS FIBER ANALYSIS

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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111437
Samples Submitted: 15
Samples Analyzed: 15
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143706

Client ID: A-59

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey soft rubbery material	None Detected	None Detected	Binder/Filler

Lab ID: 211143707

Client ID: A-60

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material	Chrysotile <1%	None Detected	Binder/Filler, Mineral Grains
2.	Green sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains
3.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143708

Client ID: A-61

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material	Chrysotile <1%	None Detected	Binder/Filler, Mineral Grains
2.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143709

Client ID: A-62

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White sandy material	Chrysotile <1%	None Detected	Binder/Filler, Mineral Grains
2.	Green sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains
3.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143710

Client ID: A-63

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	None Detected	Cellulose 50%	Binder/Filler



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BULK ASBESTOS FIBER ANALYSIS

BY POLARIZED LIGHT MICROSCOPY



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Client Name: CES Environmental Consultants, Inc

Project Manager: Cesar Ruvalcaba

Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601

Project Number: No Information Provided

Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111437

Samples Submitted: 15

Samples Analyzed: 15

Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143711

Client ID: A-64

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	None Detected	Cellulose 50%	Binder/Filler

Lab ID: 211143712

Client ID: A-65

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	None Detected	Cellulose 50%	Binder/Filler

Lab ID: 211143713

Client ID: A-66

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic material with granules	None Detected	Cellulose 15%	Asphalt/Binder, Mineral Grains
2.	Black fibrous asphaltic felt	None Detected	Cellulose 50%	Asphalt/Binder

Lab ID: 211143714

Client ID: A-67

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic material with granules	None Detected	Cellulose 15%	Asphalt/Binder, Mineral Grains
2.	Black fibrous asphaltic felt	None Detected	Cellulose 50%	Asphalt/Binder

Lab ID: 211143715

Client ID: A-68

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic material with granules	None Detected	Cellulose 15%	Asphalt/Binder, Mineral Grains
2.	Black fibrous asphaltic felt	None Detected	Cellulose 50%	Asphalt/Binder



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BULK ASBESTOS FIBER ANALYSIS BY POLARIZED LIGHT MICROSCOPY



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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111437
Samples Submitted: 15
Samples Analyzed: 15
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Analyzed by: Vivian Le

Signature: 

Date: 07-24-2021

Reviewed by: Zubair Ahmed

Signature: 

Date: 07-24-2021

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BULK ASBESTOS FIBER ANALYSIS

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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111438
Samples Submitted: 6
Samples Analyzed: 6
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Lab ID: 211143801

Client ID: A-69

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Beige sandy material	Chrysotile <1%	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143802

Client ID: A-70

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Beige sandy material	Chrysotile <1%	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143803

Client ID: A-71

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Beige sandy material	Chrysotile <1%	None Detected	Binder/Filler, Mineral Grains

Lab ID: 211143804

Client ID: A-72

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White compacted powdery material with paint	None Detected	None Detected	Binder/Filler

Lab ID: 211143805

Client ID: A-73

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White compacted powdery material with paint	None Detected	None Detected	Binder/Filler

Lab ID: 211143806

Client ID: A-74

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	White compacted powdery material with paint	None Detected	None Detected	Binder/Filler



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BULK ASBESTOS FIBER ANALYSIS

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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2111438
Samples Submitted: 6
Samples Analyzed: 6
Analysis Method: EPA 600/R-93-116 &
EPA 600/M4-82-020

Analyzed by: Vivian Le

Signature: 

Date: 07-23-2021

Reviewed by: Zubair Ahmed

Signature: 

Date: 07-23-2021

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BULK SAMPLE INVENTORY AND COC-ASBEST 2111433

Client

City of Henderson

Project Name:

16010 S. Howard St, Henderson, NV

Location:

Project Number

Date: 7-19-2021

Inspector:

Edgar Reubens

Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition
A-1	Smooth Plaster	Unit A. Kitchen - SW	Under walls and Ceilings - Unit A, B, C, D, Also all inside closets, closet, storage room	10,000 sq ft	Yes	Damaged
1-2		Unit B. Kitchen - W/E				
3		Unit B. Living Room - SW				
4		Unit C - BR - SW				
5		Unit C - BR - Ceilings SW				
6		Unit D - Closet - SW				
7		2nd Floor Hall Closet - W/E				
8	Rotten Board	Unit A. Kitchen - SW	Under Plaster	10,000 sq ft		
9		Unit A. Kitchen - W/E				
10		Unit A. Living Room - SW				
11	Hardwood Floor	Unit A. BR - Ceilings - W/E	Under all Ceilings inside	500 sq ft	No	Intact
12	Ceramic Tiles	Unit B. Kitchen - Ceilings - W/E	A, B, C, D			
13		Unit D - BR - SW				
14	Wood Pattern	Unit A. Kitchen - CL	Unit A. Kitchen, Living Room	200 sq ft	No	Intact
15	Sheet Vinyl Floor	Unit A. Kitchen - SW	Hallway			

CHAIN OF CUSTODY

Requested Analysis:

PLM - Bulk

Turnaround

5 day

Relinquished by:

[Signature]

Date and Time:

7-19-2021

Received by:

Edgar Reubens

Date and Time:

7/19/2021 1:20P

BULK SAMPLE INVENTORY AND COC-ASBESTO:

2111434

Client: City of Henderson

Project Name: 16010 S. Howard Street, Henderson

Location:

Project Number

Inspector:

Date: 7-18-2021

Febina Patel/Calvin

Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition
A-16	Pool Pattern Sheet Pool Vinyl Flooring	Unit A - Hallway - S/E	↓	200 sq ft	No	Intact
17	White Sheet Vinyl	Unit A - Kitchen - etc	Unit A - Kitchen - Living Room	200 sq ft	No	Intact
18	Flooring	↓ Kitchen - S/W	Hallway (Under wood sheet vinyl)	↓	↓	↓
19	↓	↓ Hallway - S/E	↓	↓	↓	↓
20	White Sq. Pattern	Unit B - Kitchen - etc	Unit B - Kitchen and Living Room	200 sq ft	No	Intact
21	Sheet Vinyl/Flooring	↓ Living Room - S/E	↓	↓	↓	↓
22	↓	↓ Living Room - etc	↓	↓	↓	↓
	Note: - Nail in Carpet at living Room, Bed room, Hallways at unit A, B,					
	-	unit A, B,				
Assumed	Citrinite Pipe	Known Area	At all Waste Exhaust - Crawlspace up to Roof Level - Units A, B, C, D	600 lbs	No	Intact
A-28C						
29	Beige Sq. Pattern	Unit C - Kitchen - S/W	Unit C - Kitchen and Living Room	200 sq ft	Yes	Intact
24	Sheet Vinyl/Flooring	↓ Living Room - etc	↓	↓	↓	↓
25	↓	↓ - 2 - S/W	↓	↓	↓	↓

CHAIN OF CUSTODY

Requested Analysis: OLM - Bulk

Turnaround

5 day

Relinquished by:

Date and Time:

7-14-2021

Received by:

Date and Time:

7/19/2021 1:30



EC
ENVIRONMENTAL CONSULTANTS

BULK SAMPLE INVENTORY AND COC-ASBEST

2111435

Client

City at Hudson

Project Name: 16010 S. Howard St, Hudson Co

Location:

Project Number

Inspector:

Edna - Runkel

Date: 7-19-2021

Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition
A-26	Pink Sheet Vinyl	Unit C-R-R-ck	Unit C-R-R	6454K	Yes	Intact
1-27	Flooring	Unit C-R-R-ck				
1-28		Unit C-R-R-ck				
1-29	White/Gray Ss.	Unit D-Kitchen-ck	Unit D-Kitchen and Living R.	2000	No	Intact
1-30	Pattern Sheet Floor					
1-31	Black Plastic	Unit C-R-R-ck				
1-32	Beige Sheet Vinyl	Unit D-Kitchen-ck	Unit D-Kitchen	6454K	No	
1-33	Flooring	Unit D-Kitchen-ck				
1-34		Unit D-Kitchen-ck				
1-35	Pattern Sheet Vinyl	Unit D-Kitchen-ck	Unit D-Kitchen-ck	2000	Yes	Intact
1-36		Unit D-Kitchen-ck				
1-37		Unit D-Kitchen-ck				
1-38		Unit D-Kitchen-ck				
1-39		Unit A-Corridor				

CHAIN OF CUSTODY

Requested Analysis:

Phase - Bulk

Turnaround

5 day

Relinquished by:

[Signature]

Date and Time:

7-19-2021

Received by:

[Signature]

Date and Time:

7/19/2021 11:20



CES
ENVIRONMENTAL CONSULTANTS

BULK SAMPLE INVENTORY AND COC-ASBESTO

2111436

Client

City of Henderson

Project Name:

16010 S. Howard St, Henderson, NV

Location:

Project Number

Inspector:

Feba Runkle

Date:

7-19-2021

Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition
K-40	12" Gray F.T.W.	Unit 0 Hallway - Ch.	Unit 0 Hallway Patch	2 bags	NO	Intact
41	Yellow blue	↓ - - ↓	↓	1	↓	↓
42	↓	↓ - - ↓	↓	1	↓	↓
44	Stucco	Extens - N/E	Extens walls and ceilings	4200 sq ft	NO	Intact
45	↓	↓	↓	↓	↓	↓
46	↓	↓	↓	↓	↓	↓
47	↓	↓	↓	↓	↓	↓
48	↓	↓	↓	↓	↓	↓
49	↓	↓	↓	↓	↓	↓
50	↓	↓	↓	↓	↓	↓
51	Black Brown	↓	↓	4200 sq ft	NO	Intact
52	Paper	↓	↓	↓	↓	↓
53	↓	↓	↓	↓	↓	↓
Note: # A-43 Not Used						

CHAIN OF CUSTODY

Requested Analysis:

PLM - Bulk

Turnaround

5 day

Relinquished by:

[Signature]

Date and Time:

7-19-2021

Received by:

Byron Swell et al

Date and Time:

7/19/2021 1:20p



ECIS
ENVIRONMENTAL CONSULTANTS

BULK SAMPLE INVENTORY AND COC-ASBESTOS 2111437

Client

City of Gardena

Project Name:

16016 S. Harvard St, Gardena, CA

Location:

Project Number

Inspector:

Date:

7-19-2021

Fabian Paveless

Sample #	Material Sampled	Sample Location	Material Location	Est. Qty	Friable	Condition
A-54	Brown silt/clay	Post - 1st	Post - all levels		No	Intact
1-55	Shingle roof	1 - 1st	1	1	No	
1-56	Core 1	1 - 1st	1	1	No	
1-57	Gray asphalt	Post - 1st	Post - Penetrations, Roadway	500 sq ft	No	Intact
58		1 - 1st	1	1	No	Intact
59	1	1 - 1st	1	1	No	Intact
60	Stucco	Garage - 1st	Garage - (Exterior)	100 sq ft	No	Intact
61	1	1 - 1st	1	1	No	Intact
62	1	1 - 1st	1	1	No	Intact
63	Brown Pipe	1 - 1st	1	1	No	Intact
64	1	1 - 1st	1	1	No	Intact
65	1	1 - 1st	1	1	No	Intact
66	Brown Silt/clay	Post - 1st	Post - 1st	1000 sq ft	No	Intact
67	Core 1	1 - 1st	1	1	No	
2-68	1	1 - 1st	1	1	No	

CHAIN OF CUSTODY

Requested Analysis:

PLM - Bulk

Turnaround

5 day

Relinquished by:

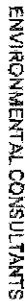
Date and Time:

7-19-2021

Received by:

Date and Time:

7/19/2021 1:30 PM



BULK SAMPLE INVENTORY AND COC-ASBESTOS:

2111438

[illegible]



BULK ASBESTOS FIBER ANALYSIS

Point Count Method (1000 Points)



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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2112016
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA Method
600/R-93/116

Laboratory Sample ID: 211201601

Client Sample ID: A-44-Layer 1

Sample Description: Layer 1 of 3: White sandy material with paint

Note: This sample was previously analyzed for asbestos content using Polarized Light Microscopy (PLM). The concentration of asbestos content was determined using visual estimation. The sample was reported to have <1% asbestos in Layer 1 and the corresponding Lab ID is 211143605.

Slide Prep Number	1	2	3	4	5	6	7	8	Total
Asbestos Points	0	0	0	0	0	0	0	0	0
Non-Asbestos Points	125	125	125	125	125	125	125	125	1000
Total Points Counted	125	125	125	125	125	125	125	125	1000

Asbestos Concentration: <0.1%

Conclusion: This sample contains <0.1% asbestos.

Comment: Asbestos fibers were observed in the field of view but not counted as points.

Laboratory Sample ID: 211201602

Client Sample ID: A-45-Layer 1

Sample Description: Layer 1 of 3: White sandy material with paint

Note: This sample was previously analyzed for asbestos content using Polarized Light Microscopy (PLM). The concentration of asbestos content was determined using visual estimation. The sample was reported to have <1% asbestos in Layer 1 and the corresponding Lab ID is 211143606.

Slide Prep Number	1	2	3	4	5	6	7	8	Total
Asbestos Points	0	0	0	0	0	0	0	0	0
Non-Asbestos Points	125	125	125	125	125	125	125	125	1000
Total Points Counted	125	125	125	125	125	125	125	125	1000

Asbestos Concentration: <0.1%

Conclusion: This sample contains <0.1% asbestos.

Comment: Asbestos fibers were observed in the field of view but not counted as points.



BULK ASBESTOS FIBER ANALYSIS

Point Count Method (1000 Points)



Phone: (562) 860-2201
www.aihlab.com

2556 W Woodland Dr Anaheim, CA 92801

Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2112016
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA Method
600/R-93/116

Laboratory Sample ID: 211201603

Client Sample ID: A-46-Layer 1

Sample Description: Layer 1 of 3: White sandy material with paint

Note: This sample was previously analyzed for asbestos content using Polarized Light Microscopy (PLM). The concentration of asbestos content was determined using visual estimation. The sample was reported to have <1% asbestos in Layer 1 and the corresponding Lab ID is 211143607.

Slide Prep Number	1	2	3	4	5	6	7	8	Total
Asbestos Points	0	0	0	0	0	0	0	0	0
Non-Asbestos Points	125	125	125	125	125	125	125	125	1000
Total Points Counted	125	125	125	125	125	125	125	125	1000

Asbestos Concentration: <0.1%

Conclusion: This sample contains <0.1% asbestos.

Comment: Asbestos fibers were observed in the field of view but not counted as points.

Laboratory Sample ID: 211201604

Client Sample ID: A-47-Layer 1

Sample Description: Layer 1 of 3: White sandy material with paint

Note: This sample was previously analyzed for asbestos content using Polarized Light Microscopy (PLM). The concentration of asbestos content was determined using visual estimation. The sample was reported to have <1% asbestos in Layer 1 and the corresponding Lab ID is 211143608.

Slide Prep Number	1	2	3	4	5	6	7	8	Total
Asbestos Points	0	0	0	0	0	0	0	0	0
Non-Asbestos Points	125	125	125	125	125	125	125	125	1000
Total Points Counted	125	125	125	125	125	125	125	125	1000

Asbestos Concentration: <0.1%

Conclusion: This sample contains <0.1% asbestos.

Comment: Asbestos fibers were observed in the field of view but not counted as points.



BULK ASBESTOS FIBER ANALYSIS

Point Count Method (1000 Points)



Phone: (562) 860-2201
www.aihlab.com

2556 W Woodland Dr Anaheim, CA 92801

Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2112016
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA Method
600/R-93/116

Laboratory Sample ID: 211201605

Client Sample ID: A-48-Layer 1

Sample Description: Layer 1 of 3: White sandy material with paint

Note: This sample was previously analyzed for asbestos content using Polarized Light Microscopy (PLM). The concentration of asbestos content was determined using visual estimation. The sample was reported to have <1% asbestos in Layer 1 and the corresponding Lab ID is 211143609.

Slide Prep Number	1	2	3	4	5	6	7	8	Total
Asbestos Points	0	0	0	0	0	0	0	0	0
Non-Asbestos Points	125	125	125	125	125	125	125	125	1000
Total Points Counted	125	125	125	125	125	125	125	125	1000

Asbestos Concentration: <0.1%

Conclusion: This sample contains <0.1% asbestos.

Comment: Asbestos fibers were observed in the field of view but not counted as points.

Laboratory Sample ID: 211201606

Client Sample ID: A-49-Layer 1

Sample Description: Layer 1 of 3: White sandy material with paint

Note: This sample was previously analyzed for asbestos content using Polarized Light Microscopy (PLM). The concentration of asbestos content was determined using visual estimation. The sample was reported to have <1% asbestos in Layer 1 and the corresponding Lab ID is 211143610.

Slide Prep Number	1	2	3	4	5	6	7	8	Total
Asbestos Points	0	0	0	0	0	0	0	0	0
Non-Asbestos Points	125	125	125	125	125	125	125	125	1000
Total Points Counted	125	125	125	125	125	125	125	125	1000

Asbestos Concentration: <0.1%

Conclusion: This sample contains <0.1% asbestos.

Comment: Asbestos fibers were observed in the field of view but not counted as points.



BULK ASBESTOS FIBER ANALYSIS

Point Count Method (1000 Points)



Phone: (562) 860-2201
www.aihlab.com

2556 W Woodland Dr Anaheim, CA 92801

Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2112016
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA Method
600/R-93/116

Laboratory Sample ID: 211201607

Client Sample ID: A-50-Layer 1

Sample Description: Layer 1 of 3: White sandy material with paint

Note: This sample was previously analyzed for asbestos content using Polarized Light Microscopy (PLM). The concentration of asbestos content was determined using visual estimation. The sample was reported to have <1% asbestos in Layer 1 and the corresponding Lab ID is 211143611.

Slide Prep Number	1	2	3	4	5	6	7	8	Total
Asbestos Points	0	0	0	0	0	0	0	0	0
Non-Asbestos Points	125	125	125	125	125	125	125	125	1000
Total Points Counted	125	125	125	125	125	125	125	125	1000

Asbestos Concentration: <0.1%

Conclusion: This sample contains <0.1% asbestos.

Comment: Asbestos fibers were observed in the field of view but not counted as points.

Laboratory Sample ID: 211201608

Client Sample ID: A-60-Layer 1

Sample Description: Layer 1 of 3: White sandy material

Note: This sample was previously analyzed for asbestos content using Polarized Light Microscopy (PLM). The concentration of asbestos content was determined using visual estimation. The sample was reported to have <1% asbestos in Layer 1 and the corresponding Lab ID is 211143707.

Slide Prep Number	1	2	3	4	5	6	7	8	Total
Asbestos Points	0	0	0	0	0	0	0	0	0
Non-Asbestos Points	125	125	125	125	125	125	125	125	1000
Total Points Counted	125	125	125	125	125	125	125	125	1000

Asbestos Concentration: <0.1%

Conclusion: This sample contains <0.1% asbestos.

Comment: Asbestos fibers were observed in the field of view but not counted as points.



BULK ASBESTOS FIBER ANALYSIS

Point Count Method (1000 Points)



Phone: (562) 860-2201
www.aihlab.com

2556 W Woodland Dr Anaheim, CA 92801

Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2112016
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA Method
600/R-93/116

Laboratory Sample ID: 211201609

Client Sample ID: A-61-Layer 1

Sample Description: Layer 1 of 2: White sandy material

Note: This sample was previously analyzed for asbestos content using Polarized Light Microscopy (PLM). The concentration of asbestos content was determined using visual estimation. The sample was reported to have <1% asbestos in Layer 1 and the corresponding Lab ID is 211143708.

Slide Prep Number	1	2	3	4	5	6	7	8	Total
Asbestos Points	0	0	0	0	0	0	0	0	0
Non-Asbestos Points	125	125	125	125	125	125	125	125	1000
Total Points Counted	125	125	125	125	125	125	125	125	1000

Asbestos Concentration: <0.1%

Conclusion: This sample contains <0.1% asbestos.

Comment: Asbestos fibers were observed in the field of view but not counted as points.

Laboratory Sample ID: 211201610

Client Sample ID: A-62-Layer 1

Sample Description: Layer 1 of 3: White sandy material

Note: This sample was previously analyzed for asbestos content using Polarized Light Microscopy (PLM). The concentration of asbestos content was determined using visual estimation. The sample was reported to have <1% asbestos in Layer 1 and the corresponding Lab ID is 211143709.

Slide Prep Number	1	2	3	4	5	6	7	8	Total
Asbestos Points	0	0	0	0	0	0	0	0	0
Non-Asbestos Points	125	125	125	125	125	125	125	125	1000
Total Points Counted	125	125	125	125	125	125	125	125	1000

Asbestos Concentration: <0.1%

Conclusion: This sample contains <0.1% asbestos.

Comment: Asbestos fibers were observed in the field of view but not counted as points.



BULK ASBESTOS FIBER ANALYSIS

Point Count Method (1000 Points)



Phone: (562) 860-2201
www.aihlab.com

2556 W Woodland Dr Anaheim, CA 92801

Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601
Project Number: No Information Provided
Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2112016
Samples Submitted: 13
Samples Analyzed: 13
Analysis Method: EPA Method
600/R-93/116

Laboratory Sample ID: 211201611

Client Sample ID: A-69-Layer 1

Sample Description: Layer 1 of 1: Beige sandy material

Note: This sample was previously analyzed for asbestos content using Polarized Light Microscopy (PLM). The concentration of asbestos content was determined using visual estimation. The sample was reported to have <1% asbestos in Layer 1 and the corresponding Lab ID is 211143801.

Slide Prep Number	1	2	3	4	5	6	7	8	Total
Asbestos Points	0	0	0	0	0	0	0	0	0
Non-Asbestos Points	125	125	125	125	125	125	125	125	1000
Total Points Counted	125	125	125	125	125	125	125	125	1000

Asbestos Concentration: <0.1%

Conclusion: This sample contains <0.1% asbestos.

Comment: Asbestos fibers were observed in the field of view but not counted as points.

Laboratory Sample ID: 211201612

Client Sample ID: A-70-Layer 1

Sample Description: Layer 1 of 1: Beige sandy material

Note: This sample was previously analyzed for asbestos content using Polarized Light Microscopy (PLM). The concentration of asbestos content was determined using visual estimation. The sample was reported to have <1% asbestos in Layer 1 and the corresponding Lab ID is 211143802.

Slide Prep Number	1	2	3	4	5	6	7	8	Total
Asbestos Points	0	0	0	0	0	0	0	0	0
Non-Asbestos Points	125	125	125	125	125	125	125	125	1000
Total Points Counted	125	125	125	125	125	125	125	125	1000

Asbestos Concentration: <0.1%

Conclusion: This sample contains <0.1% asbestos.

Comment: Asbestos fibers were observed in the field of view but not counted as points.



BULK ASBESTOS FIBER ANALYSIS

Point Count Method (1000 Points)



Phone: (562) 860-2201
www.aihlab.com

2556 W Woodland Dr Anaheim, CA 92801

Client Name: CES Environmental Consultants, Inc

Project Manager: Cesar Ruvalcaba

Client Address: 6741 Friends Avenue, Suite B,
Whittier, CA 90601

Project Number: No Information Provided

Project Location: 16010 S. Harvard St. Gardena, CA

Lab Batch Number: 2112016

Samples Submitted: 13

Samples Analyzed: 13

Analysis Method: EPA Method
600/R-93/116

Laboratory Sample ID: 211201613

Client Sample ID: A-71-Layer 1

Sample Description: Layer 1 of 1: Beige sandy material

Note: This sample was previously analyzed for asbestos content using Polarized Light Microscopy (PLM). The concentration of asbestos content was determined using visual estimation. The sample was reported to have <1% asbestos in Layer 1 and the corresponding Lab ID is 211143803.

Slide Prep Number	1	2	3	4	5	6	7	8	Total
Asbestos Points	0	0	0	0	0	0	0	0	0
Non-Asbestos Points	125	125	125	125	125	125	125	125	1000
Total Points Counted	125	125	125	125	125	125	125	125	1000

Asbestos Concentration: <0.1%

Conclusion: This sample contains <0.1% asbestos.

Comment: Asbestos fibers were observed in the field of view but not counted as points.

Analyzed by: Calvin Nguyen

Signature:

Date: 08-03-2021

Reviewed by: Vivian Le

Signature:

Date: 08-03-2021

Reporting limit is 0.1%. "<" denotes presence of asbestos below reporting limit. ND=None Detected. If the sample was not collected by AIH Laboratory then the accuracy of the results is limited by the methodology and experience of the sample collector. Clients can verify specific reporting limit requirement from local regulatory agencies. Liability limited to cost of samples analysis. This report shall not be reproduced except in full, without written approval of AIH Laboratory. It shall not be used to claim product endorsement by NVLAP or any other agency of the government. Reported results relate only to the samples tested and may not be the representative of the sample area. AIH Laboratory shall dispose of the Customer's samples 30 days after receiving the samples unless instructed to store them for an alternate period of time in writing.

APPENDIX C:
BULK SAMPLE INVENTORY-LEAD PAINT CHIPS

BULK SAMPLE INVENTORY-LEAD PAINT CHIPS

Site: 16010 S Harvard
Building:
Inspector: Fabian Ruvalcaba

Sample #	Component/Substrate/Color	Sample Location	Component Location	Results (ppm)	Condition
PC-1	Ceiling/Plaster/White	Unit B- Kitchen South West	Units A, B, C, D,	8,929	Damaged (500 sq. ft)
PC-2	Wall/Plaster/White	Unit B- Restroom South West	Interior walls and ceiling	5,181	Damaged (500 sq. ft)
PC-3	Wall/Stucco/ White	Exterior- North East	16010 Exterior	<200	Intact
PC-4	Wall/Stucco/ Beige	Exterior- South West	16010 Exterior	<200	Intact
PC-5	Flashing/Metal/ Orange	Exterior- North East	16010 Exterior	7,067	Intact
PC-6	Flashing/Metal/White	Exterior- South Center	16010 Exterior	3,602	Intact

APPENDIX D:

**SUMMARY OF BULK PAINT SAMPLES, ANALYTICAL DATA, CHAIN OF
CUSTODY, XRF REPORT AND CDPH FORM 8552**



Analysis Report

Total Lead (Pb)

Client: CES Environmental Consultants, Inc
Address: 6741 Friends Avenue, Suite B, Whittier, CA
90601

Project Manager: Cesar Ruvalcaba
Project #: No Information Provided
Project Location: 16010 Harvard Boulevard, Gardena, CA 90247

Report Status: Final Report

Lab Batch #: 2111427

Matrix: Paint

Method: EPA 7000B

Samples Submitted: 12

Samples Analyzed: 12

Bench Run No: 56311

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
211142701	PC-1	0.0999	0.40	8929	0.89
211142702	PC-2	0.0996	0.40	5181	0.52
211142703	PC-3	0.0999	0.02	<200	<0.02
211142704	PC-4	0.1009	0.02	<200	<0.02
211142705	PC-5	0.0135	0.15	7067	0.71
211142706	PC-6	0.0985	0.02	3602	0.36
211142707	PC-7	0.1018	0.02	<200	<0.02
211142708	PC-8	0.1009	0.02	<200	<0.02
211142709	PC-9	0.0999	0.02	<200	<0.02
211142710	PC-10	0.1017	0.02	<200	<0.02
211142711	PC-11	0.1013	0.02	<200	<0.02
211142712	PC-12	0.1032	0.39	16977	1.70

Sampled By: Client

Analyzed by: Watit Sontising

Reviewed by: Zubair Ahmed

Signature: 

Date: 07-20-2021

Signature: 

Date: 07-20-2021

Notes:

Units: mg/kg = milligrams per kilogram; percent = milligrams per kilogram/10000

RL = Reporting limit; "<" = below the reporting limit; mg/kg = ppm

Samples were prepared in accordance with EPA 3050B and analyzed with EPA 7420 unless stated otherwise. Condition of all samples and method QC results are acceptable unless stated otherwise. Reported results relate only to the samples tested and may not be the representative of the sample area.

AIHA LAP, LLC Accredited Laboratory for Environmental Lead Laboratory ISO/IEC 17025:2005, Lab ID# 203769



CES
ENVIRONMENTAL CONSULTANTS

2111427

BULK SAMPLE INVENTORY AND COC-LEAD PAINT CHIPS

Client: City of Henderson Project Name: 16010 S. Harvard St, Henderson, NV

Location: _____ Project Number: _____ SWO# _____

Inspector: Robin Ruckelshaus Date: 7-14-2021

Sample #	Component/Substrate/Color	Sample Location	Component Location	Est. Qty	Condition
PC-1	Ceiling Plaster white	Unit B. Kitchen - SW	Units A, B, C, D	500 sq ft	Damaged
PC-2	Wall Plaster white	Unit A - SW	Interior walls and Ceilings	500 sq ft	+
Pos by ref	Cabinet wood white	N/A	Interior at units A, B, C, D	N/A	
+	Door wood white				
+	Door wood white				
+	Wall Trim wood white				
+	Window frame L				
	Wall Ceramic Pink		Units A, B, C, D		
	Base		Plc		
	+				
	+				
	Toilet white				
	Tub				
	Floor Ceramic Gray		Units A, B, C, D		
	+		Plc + (Some Plc Ceramic are covered with Stained Vinyl)		
+	Count Top Ceramic white		Units A, B, C, D (Kitchen)		

CHAIN OF CUSTODY

Requested Analysis: Heavy M. Lead & Pb

Turnaround: 5 day

Relinquished by: [Signature] Date and Time: 7-14-2021

Received by: Robin Ruckelshaus Date and Time: 7/14/2021 1:24 PM



CES
ENVIRONMENTAL CONSULTANTS

2111623

BULK SAMPLE INVENTORY AND COC-LEAD PAINT CHIPS

Client: City of Gadsden Project Name: 16010 3-Howard St. Gadsden, GA

Location: Gadsden, GA Project Number: SWO#

Inspector: _____ Date: _____

Sample #	Component/Substrate/Color	Sample Location	Component Location	Est. Qty	Condition
PC-3	Handrail 1st floor white	Ext - N/E	16010 Exterior	N/A	
↓ 4	Wall 1st floor white	↓ - SW			
PC-5	Handrail 1st floor wood	N/A			
↓	Stairs 1st floor wood				
↓	Door 1st floor wood				
↓	Floor 1st floor wood				
↓	Base 1st floor wood				
PC-6	metal flashing/average	Ext - N/E			
↓	Window casing 1st floor white	N/A			
↓	Wall trim 1st floor wood	↓			
PC-6	flashing metal white	Ext - SW			
↓	Column 1st floor wood	N/A			
↓	Beam 1st floor wood				
↓	Door casing 1st floor wood				
↓	Window casing 1st floor wood				
↓	Base 1st floor wood				

CHAIN OF CUSTODY

Turnaround: 5 day

Date and Time: 7-18-2021

Date and Time: 7/18/2021 1:20p

Requested Analysis: Flame test lead in Pb

Relinquished by: [Signature]

Received by: [Signature]

XRF DATA SHEET

Date: 7-18-2021

Project Number: _____

Client: _____

Project Name: 16010 S Herdman Street

Inspector: R. R. / N. K. G.

Sample No.	Sample Location - Room Description	Substrate (I)	Color	Component	A,B,C,D Wall	Paint Condition	Sample Results (mg/cm2)
22	Calibration						0.9
23							0.9
24							1.0
25	Unit A - Kitchen	Ceramic	White	Countertop	C	I	22.9
26		Ceramic	Gray	Wall	C		53.8
27				Floor	C		22.5
28							9.1
29	Unit B - Kitchen	Ceramic	White	Countertop	C		8.8
30			Blue	Floor	C		8.1
31			Pink	Floor	C		6.6
32			Beige	Wall	C		27.8
33			White	Tub	C		23.2
34			White	Toilet	C		27.6
35			Pink	Floor	C		5.7
36	Unit D - Kitchen		White	Countertop	C		20
37		Ceramic	Yellow	Wall	D		4.5
38	Unit C - Kitchen		White	Countertop	D		5.3
39			White	Wall	C		3.0
40			White	Wall	C		0.02
41			White	Wall	D		0.04
42	Unit E - Kitchen	PL		Ceiling	D		0.6
43				Door	A		1.4
44		WD		Door	A		1.9
45				Door	C		4.5
46				Door	C		3.7
47				Door	B		miss/area
48				Door			
49				Door			
50				Door			
51				Door			
52	Unit P - Kitchen	WD	White	Cabinet	A		3.8
53				Cabinet	B		2.0
54	Unit Q - Kitchen	WD	Pink	Cabinet	C		3.3
55				Stairs	A		0.6
56			Brown	Door	B		0.7
57			Pink	Door	D		0.3
58				Door	D		0.2
59				Door	D		0.07
60		ME	White	Plaster	P		

(1) DW-Drywall, PL-Plaster, ME-Metal, WD-Wood, ST-Stucco, CE-Ceramic, PS-Plastic, CO-Concrete

Consultant Name: R. R. / N. K. G.

Date: 7-18-2021

XRF DATA SHEET

Date: 7-14-2021

Project Number: _____

Client: _____

Project Name: 1600 S. Howard Street

Inspector: Robert R. N. G.

Sample No.	Sample Location - Room Description	Component (I)	substrate	Color	A,B,C,D Wall	Paint Condition	Sample Results (mg/cm ²)
61	1600 Extension	ST wall	ST	white			0.00
62							mistake
63		Window casing	WD	Pink	A	I	0.05
64		Wall trim	I	I	A	I	0.30
65							
66							
67							
68							
69							
70		Window case	WD	Pink	A	I	3.4
71	Extension	Wall trim	I	I	B		9.7
72		Wall	ST	beige	A		2.0
73		Flushing	ME	white	C		0.21
74							mistake
75		Column	WD	Pink	C		10.6
76		beam			D		1.2
77		average door			C		4.2
78		quadrant			D		1.2
79		base casing			C		6.7
80							
81							
82							
83							
84							
85							
86							
87							
88							
89							
90							
91							
92							
93							
94							
95							
96							
97							
98							
99							
100							

mistake
mistake

(1) DW-Drywall, PL-Plaster, ME-Metal, WD-Wood, ST-Stucco, CE-Ceramic, PS-Plastic, CO-Concrete

Consultant Name: Robert R. N. G.

Date: 7-14-2021


LEAD HAZARD EVALUATION REPORT**Section 1 — Date of Lead Hazard Evaluation** 7.19.2021**Section 2 — Type of Lead Hazard Evaluation (Check one box only)**☒ Lead Inspection ☐ Risk assessment ☐ Clearance inspection ☐ Other (specify) _____**Section 3 — Structure Where Lead Hazard Evaluation Was Conducted**

Address [number, street, apartment (if applicable)] 16010 Harvard Blvd		City Gardena	County Los Angeles	Zip Code 90247
Construction date (year) of structure	Type of structure <input checked="" type="checkbox"/> Multi-unit building <input type="checkbox"/> School or daycare <input type="checkbox"/> Single family dwelling <input type="checkbox"/> Other _____		Children living in structure? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Don't Know	

Section 4 — Owner of Structure (if business/agency, list contact person)

Name City of Gardena		Telephone number 310-217-9643		
Address [number, street, apartment (if applicable)] 1717 West 162nd Street		City Gardena	State California	Zip Code 90247

Section 5 — Results of Lead Hazard Evaluation (check all that apply)☐ No lead-based paint detected ☐ Intact lead-based paint detected ☒ Deteriorated lead-based paint detected
☐ No lead hazards detected ☐ Lead-contaminated dust found ☐ Lead-contaminated soil found ☐ Other _____**Section 6 — Individual Conducting Lead Hazard Evaluation**

Name Fabian Ruvalcaba (LRC-00004100)/Elmer Ivan Castro (LRC-0004617)		Telephone number 323-399-3875		
Address [number, street, apartment (if applicable)] 6741 Friends Ave		City Whittier	State California	Zip Code 90601
CDPH certification number LRC-00004617	Signature 			Date 7.19.2021

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Section 7 — Attachments

- A. A foundation diagram or sketch of the structure indicating the specific locations of each lead hazard or presence of lead-based paint;
- B. Each testing method, device, and sampling procedure used;
- C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656

APPENDIX E:
SUMMARY OF LEAD-CONTAINING PAINTS

BULK SAMPLE INVENTORY-LEAD PAINT CHIPS

Site: 16010 S Harvard
Building:
Inspector: Fabian Ruvalcaba

Sample #	Component/Substrate/Color	Sample Location	Component Location	Results (ppm)	Condition
PC-3	Wall/Stucco/ White	Exterior- North East	16010 Exterior	<200	Intact
PC-4	Wall/Stucco/ Beige	Exterior- South West	16010 Exterior	<200	Intact

APPENDIX F:
SAMPLE DIAGRAMS

APPENDIX G:
INSPECTOR CERTIFICATIONS

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Cesar Ruvalcaba

Name

Certification No. 95-1799

Expires on 10/27/21

This certification was issued by the Division of Occupational Safety and Health as authorized by Section 13264 and 13265 of the Business and Professions Code





STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:



Cesar Ruvalcaba

CERTIFICATE TYPE:

Lead Inspector/Assessor
Lead Project Monitor

NUMBER:

LRC-00003922
LRC-00003921

EXPIRATION DATE:

1/16/2022
1/16/2022

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clcph or calling (800) 597-LEAD.

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Fabian Ruvalcaba

Name

Certification No. **15-5533**

Expires on **11/17/21**



This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.



STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:



Fabian Rubalcaba

CERTIFICATE TYPE:

Lead Inspector/Assessor

NUMBER:

LRC-00004100

EXPIRATION DATE:

12/6/2021

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clhpb or calling (800) 597-LEAD.



STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

EMPLOYER:



CERTIFICATE TYPE:

Lead-Sweeping Technician

NUMBER:

LEI-00000100

EXPIRATION DATE:

8/16/2027

Nicky Contreras-Morales

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Global Environmental Training

This is to certify that
Nicky Gutierrez-Moreno

SS# 4202

Has completed course work that meets the criteria required for EPA/AHERA
(TSCA Title II) Approved Reaccreditations and NESHAPs Regulations Training *

Asbestos in Buildings: Building Inspector Refresher

September 8, 2020

Course Date

220-144-BIR

Certificate Number

September 8, 2021

Expiration Date

CA - 023 - 06

Course Approval Number


Mario Virgen
Course Director



1520 W. Cameron Ave., Suite 103 * West Covina, CA 91790 (626) 962-4436

*This course meets California requirements

Global Environmental Training

This is to certify that

Nicky Gutierrez-Moreno

SS# 4202

Has completed course work that meets the criteria required for EPA/AHERA
(TSCA Title II) Approved Reaccreditation and NESHAPs Regulations Training *

Asbestos in Buildings: Abatement Contractor Supervisor Refresher

September 9, 2020

Course Date

220-175-CSR

Certificate Number

September 9, 2021

Expiration Date

CA - 023 - 04

Course Approval Number


Mario Virgen
Course Director



1520 W. Cameron Ave., Suite 103 * West Covina, CA 91790 (626) 962-4436
*This course meets California requirements



CLARK SEIF CLARK, INC.
HEALTH & SAFETY • ENGINEERING • ENVIRONMENTAL



Project Number: 1030420

Re: Asbestos Containing Materials and
Lead-Based Paint Demolition Survey Report
Gardena Community Aquatic Center – Pump House and Pool Tank
1654 West 160th Street
Gardena, CA

CSC Local Office: Clark Seif Clark, Inc.
PO Box 4299
Chatsworth, CA 91313
Office: 818-727-2553
Fax: 818-727-2556

Client: RJM Design Group
31591 Camino Capistrano
San Juan Capistrano, CA 92675

Date Report Issued: October 29, 2021

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I. INTRODUCTION

RJM Design Group retained Clark Seif Clark, Inc. (CSC) to perform an asbestos-containing material (ACM) and Lead-Based Paint (LBP) demolition survey of the pump house and pool tank at the Gardena Community Aquatic Center located at 1654 West 160th Street in Gardena, California. Mr. Devon Charnley (Cal/OSHA CSST No. 12-4870, CDPH No. 00006856), of CSC conducted the survey on October 20, 2021.

CSC's report is for the exclusive use of RJM Design Group and applies only to the building referenced above or portion thereof. No one other than Ronald M. Griffith or those contracted by him may utilize, reference, or otherwise rely on this report without prior written consent from CSC.

II. PURPOSE AND SCOPE

The purpose of this investigation was to identify accessible ACM and LBP in the pump house and pool tank areas at the site that may be impacted by the proposed demolition project at the site. CSC's scope of work included:

- A visual inspection of the readily accessible impacted areas at the site to evaluate the possible presence of ACM and LBP.
- Collection of bulk samples of suspect ACM and submittal of samples to a NVLAP accredited laboratory for analysis.
- Assessment of the condition of suspect ACM.
- Collection of x-ray fluorescence (XRF) reading of potential LBP.
- Assessment of the condition of potential LBP.
- Preparation of this report, which presents our data and summarizes the assessed materials

III. SITE DESCRIPTION

The subject property is an approximately 4,000 square foot pool tank and a 900 square foot pump house at the Aquatic Center. In general, the construction materials consist of concrete masonry unit walls, concrete decking, and a plaster pool tank. The pump house has a flat rolled asphalt roof. Interior finishes include concrete masonry unit walls and drywall.

IV. BACKGROUND

A. ASBESTOS:

Currently, asbestos-containing materials are being removed and/or encapsulated in schools and public buildings because of the cancer risk associated with breathing asbestos.

Much of what is known about asbestos-related diseases comes from studying workers in the various asbestos industries. Exposure to levels of airborne asbestos has been linked with a debilitating lung disease called asbestosis; a rare cancer of the chest and abdominal lining called mesothelioma; and cancers of the lung, esophagus, stomach, colon, and other organs.

The relationship between exposure level and health risk is complex. The potential for disease appears to be related to the physical and chemical characteristics of asbestos fibers as well as to the concentration of fibers in the air and each person's genetic susceptibility. However, the U.S. Government through the U.S. Department of Health and Human Services, has stated that, "evaluation of all available human data provides no evidence for a threshold or for a "safe" level of asbestos exposure."

Federal, State, and Local laws require that building owner(s) and/or their representatives, prior to any demolition and/or renovation operations that may disturb any asbestos-containing materials in their buildings, must meet the following requirements: Notifications; removal techniques for asbestos-containing materials; clean-up procedures and waste storage and disposal requirements.

In Los Angeles County, the South Coast Air Quality Management District (SCAQMD) must be notified 10 working days prior to the start of any asbestos-abatement projects that exceed 100 square feet of asbestos-containing material.

The Occupational Safety & Health Administration (OSHA) must be notified 24 hours prior to the start of any asbestos-abatement project.

B. LEAD-BASED PAINT:

Lead is a heavy metal, which accumulates in the body when ingested. It interferes with chemical reaction in the body and can result in reduced performance in school, kidney problems, liver damage, high blood pressure, immune system failure, coma, convulsions, brain damage, and in severe cases death. In pregnant women, lead poisoning, nerve damage, impaired blood formation, and infant mortality.

An estimated 3 to 4 million American children have damaging levels of lead in their blood. According, to the National Health and Nutrition Examination Survey, 50% (one half) of the adults and 88% of preschool children tested had high blood lead levels. Of those, 9% of the children met the center for Disease Control standards for lead poisoning.

Children usually are exposed through household dust contaminated by peeling, flaking, or chalking paint. Young children also may be poisoned during teething by mouthing on windowsills that contain leaded paint.

Pottery and glassware containing lead is quite common. Lead paint and glaze were commonly used on items made in the U.S. before 1970 and are still used on imported ceramics. When those pieces are fired at temperatures below 1,200 degrees centigrade, the lead can be released into food. The most common sources of contaminated pottery and ceramics are Mexico and Italy. Research performed by the Food and Drug Administration indicated that nearly 10% of imported ceramics might release lead into blood.

The American Academy of Pediatrics recommends that children be screened for lead poisoning at 12 months of age and also that middle age men should have their blood level tested because of their susceptibility to hypertension.

According to public health experts, preventive measures should be taken to avoid lead poisoning. These measures include testing for lead in paint, pottery, ceramic dishes, and drinking water.

California OSHA (CAL/OSHA) requires a lead-work pre-job notification if the quantities of lead-containing materials to be disturbed exceeds 100 square feet or 100 linear feet OR if the tasks include torch cutting or welding exceeding 1 hour in any shift OR if the percentage of lead in the material to be disturbed exceeds 0.5% by weight (5,000 ppm), or 1.0 mg/square centimeter. The information and form required for notification can be found in 8CCR1532.1.

V. METHODS

A. ASBESTOS

Suspect asbestos materials are sampled and later identified using the Polarized Light Microscopy (PLM) method in accordance with the EPA Interim method of the Determination of Asbestos in Bulk Samples (EPA/600/R-93/116, July 1993). Sampling was performed in accordance with 40 CFR 763.86. Homogeneous areas were based on the total functional space. Number of samples per homogeneous area was taken as recommended under said section "Sampling Procedures".

The PLM Method is the most commonly used method to analyze building materials for the presence of asbestos. This method utilizes the optical properties of minerals to identify the selected constituent. The use of this method enables identification of the type and the percentage of asbestos in a given sample. The detection limit of the PLM method for asbestos identification is about one (1) percent asbestos. Because the State of California recognizes asbestos-containing building material (ACBM) as any material, which contains greater than or equal to one tenth of one percent (.1) asbestos, materials containing "trace" amounts of asbestos are reported as ACBM in the State of California. CSC recommends Transmission Electron Microscopy (TEM) analysis for asbestos samples with one percent (1%) or less asbestos content and Point Count Method with results ranging between two percent (2%) and ten percent (10%) when analyzed via PLM.

Documentation of the laboratory results should be retained as a reference for general building safety and maintenance, and for any future renovation/ demolition activities.

INSPECTION PROCEDURE (763.85)

Areas Inspected: In each area of the building, the inspector performed a preliminary walk-through to designate the functional spaces. He also noted which areas had homogeneous materials.

The inspector then visually inspected each accessible room or space in the building. The inspector touched suspect materials to determine if they were friable. For each suspect material, the inspector noted its condition and the potential for disturbance.

Quantities: Suspect asbestos-containing materials identified at the site were quantified. For extensive materials such as the transite siding and roof panels, general functional space measurements were used. Such measurements provide "approximate square or linear footage" (763.93 (d)(2)(ii)).

Suspect Asbestos-Containing Materials: were sampled for laboratory analysis or were visually identified as ACM.

B. LEAD-BASED PAINT

Our inspector used a portable NITON-XLp 300 Series, XRF LBP Spectrum Analyzer manufactured by NITON Corporation to test for LBP. The LBP analyzer was equipped with 14 mCi, cadmium 109 sealed radioactive source. CSC calibrated the XRF pursuant to the manufacturer's specifications and regularly verified XRF readings against pre-determined lead samples produced by the National Institute of Standards and Testing (NIST). The calibration data is attached hereto.

The HUD Guidelines define X-Ray fluorescent analyzer (XRF) measurements greater than or equal to 1.0 mg/cm² (milligrams per square centimeter) or 5000 ppm (parts per million by weight) (0.5% by dry weight) using laboratory analysis, lead positive. For purposes of this inspection, all XRF readings equal to or greater than 0.7 mg/cm² are considered lead-based paint in accordance with the California Title 17 regulations and Los Angeles

County guidelines. The Cal/OSHA “Lead in Construction” standard recognizes *any detectable (quantifiable)* concentrations of lead as regulated materials.

When performing lead-related construction activities, workers must be protected when exposed to levels above the current permissible exposure limit (PEL) of 50ug/cm², regardless of the content of lead in paint.

VI. RESULTS

A. ASBESTOS

Twenty-seven bulk samples were collected and analyzed for a total of forty-one (41) analyses on a layer-by-layer basis using polarized light microscopy (PLM). The following table summarizes the suspect-asbestos-containing building materials identified at the site and the analytical results of the materials sampled. A complete list of sample results can be found in the laboratory sheets at the end of this report.

TABLE I: BULK SAMPLING RESULTS

Sample No:	HM	Suspect Asbestos-Containing Materials	Asbestos Content	Location of Material (Homogenous area)	NESHAPS Condition/Friability	Quantity (ft ²)*
0420-B01-B03	1	Drywall and joint compound	NAD	Pump house storage room wall	G/NF	150
0420-B04-B06	2	Concrete masonry unit and mortar	NAD	Pump house and pool deck walls	G/NF	1,500
0420-B07-B09	3	Roof mastic	NAD	Pump house roof at penetrations	G/NF	3
0420-B10-B12	4	Rolled asphalt roofing	NAD	Pump house roof	G/NF	900
0420-B13-B15	5	Concrete	NAD	Foundation and pool deck	G/NF	2,500
0420-B16-B18	6	Plaster	NAD	Pool tank	G/NF	5,000
0420-B19-B21	7	Ceramic tile and mortar	NAD	Pool tank	G/NF	500
0420-B22-B24	8	Caulking	NAD	Pool deck perimeter around tank and inside tank	G/NF	50
0420-B25-B27	9	Coping cement and grout	NAD	Perimeter around pool tank	G/NF	250
HM = Homogeneous Material NAD = No Asbestos Detected G = Good NF = Non-friable * = Quantities are estimates of the amount of material affected by renovation/demolition and are not intended for bid purposes. Refer to the laboratory report and chain(s) of custody in Appendix A for complete list of materials tested and sampling locations						

Materials containing greater than one percent (>1%) asbestos as determined by Polarized Light Microscopy methodology are considered to be an asbestos-containing materials (ACM) according to the Environmental Protection Agency (EPA). These materials are subject to regulatory provisions under 40 CFR 61.

Any manufactured construction material containing greater than one tenth of one percent (>0.1%) asbestos as determined by Polarized Light Microscopy methodology are considered to be an asbestos-containing construction materials (ACCM) according to California Occupational Safety and Health Administration (Cal-OSHA). These materials are subject to regulatory provisions under CCR Title 8, Section 1529.

Should the demolition process reveal any additional suspect asbestos-containing materials; work must stop until the suspect materials are tested for asbestos content.

B. LEAD-BASED PAINT

In Los Angeles County, paint is considered lead-based (LBP) if it tests greater than or equal to ≥ 0.7 mg/cm², and paint is considered lead-containing (LCP) if it tests between 0.1 and 0.7 mg/cm². The following are the analytical results of the testing combinations collected from the site:

TABLE II: XRF LEAD TESTING RESULTS

Testing Combination / Locations	Substrate	Condition	Lead Status*	Lead Concentration (mg/cm ²)	Inspection Notes
Pump house exterior walls (blue)	Concrete masonry unit	Intact	NEG	0	N/A
Pump house exterior doors (blue)	Metal	Intact	NEG	0	N/A
Pump house exterior trim (blue)	Wood	Intact	NEG	0	N/A
Pump house interior walls (white)	Drywall	Intact	NEG	0	N/A
Pool tank ceramic tile (blue and black)	Ceramic tile	Intact	NEG	0	N/A
NEG = No Lead Detected above the detection limit Refer to the XRF Data Sheet(s) in Appendix B for a complete list of components and locations tested					

Note: Painted surfaces generally contain lead at various levels, which are lead containing and not considered lead-based paint. It is advised that all work where painted surfaces are impacted is conducted in a manner to minimize the generation of dust.

VII. CONCLUSIONS / RECOMMENDATIONS

A. ASBESTOS

According to bulk sampling and visual inspection, no asbestos-containing materials (ACM) were identified in the pump house, pool deck or pool tank areas.

B. LEAD

Based on the field assessment and XRF analysis, no lead based materials were identified in the pump house, pool deck or pool tank areas.

The report is designed to aid the building owner, architect, construction manager, general contractors, and potential asbestos abatement contractors in locating ACM and /or assumed ACM, LBP and/or lead-containing paint, and universal waste. The quantities of materials identified in this report are only estimates and should not be used for bidding or developing costs for abatement. It should be the responsibility of the asbestos abatement contractor to calculate actual quantities and develop removal costs accordingly.

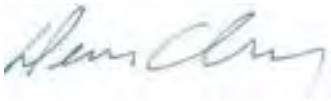
Should materials similar to those identified in this report or, other forms of suspect hazardous materials be discovered during the renovation process, the contractor should be instructed to cease all work activities which may initiate an exposure episode and notify the appropriate management personnel.

Clark Seif Clark, Inc. prepared this asbestos survey under contract with Ronald M. Griffith. No warranties expressed or implied, are made by Clark Seif Clark, Inc. or its employees as to the use of any information, apparatus, product or process disclosed in this report. Though reasonable efforts have been made to assure correctness, if a Contractor is employed he should bring any discrepancies to the immediate attention of Clark Seif Clark, Inc.

We have employed state-of-the-art practices to perform this analysis of risk and identification. Our services consist of professional opinions and recommendations made in accordance with generally accepted engineering principles and practices and are designed to provide an analytical tool to assist the client. Clark Seif Clark or those representing Clark Seif Clark bear no responsibility for the actual condition of the structure or safety of a site pertaining to asbestos and/or asbestos contamination regardless of the actions taken by the client.

Clark Seif Clark appreciated having the opportunity to inspect your property. If you have any questions regarding this survey or other environmental hazards, please don't hesitate to contact us at (818) 727-2553 or (800) 807-1118.

Written by,



Devon Charnley
Certified Site Surveillance Technician (CSST)
Cal/OSHA CSST no. 12-4870
CDPH Lead Sampling Technician
No. LRC-00006856
Clark Seif Clark, Inc.

Reviewed and endorsed by,



Christian Goerrissen
Certified Asbestos Consultant (CAC)
Cal/OSHA - CAC No. 00-2840
CDPH Lead Inspector/Assessor
No. LRC-00000162
Clark Seif Clark, Inc.

Project Name: Gardena Community Aquatic Center
Project Location: 1654 West 160th Street, Gardena, CA
CSC Project No.: 1030420

APPENDIX A

LABORATORY ANALYTICAL RESULTS AND CHAIN OF CUSTODY



LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

<http://www.LATesting.com> / pasadenalab@latesting.com

LA Testing Order: 322119575

Customer ID: CLAR53

Customer PO:

Project ID:

Attention: Devon Charnley
Clark Seif Clark
PO Box 4299
Chatsworth, CA 91313

Phone: (818) 727-2553

Fax: (818) 727-2556

Received Date: 10/22/2021 9:50 AM

Analysis Date: 10/27/2021 - 10/28/2021

Collected Date:

Project: 1030420/Gardena Community Aquatic Center, 1654 West 160th Street, Gardena, CA

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos % Type
			% Fibrous	% Non-Fibrous	
0420-B01-Drywall <small>322119575-0001</small>	Pump house-storage room - Drywall system	Brown/Tan Fibrous Heterogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
0420-B01-Joint Compound <small>322119575-0001A</small>	Pump house-storage room - Drywall system	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B02-Drywall <small>322119575-0002</small>	Pump house-storage room - Drywall system	Brown/White Fibrous Heterogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
0420-B02-Joint Compound <small>322119575-0002A</small>	Pump house-storage room - Drywall system	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B03-Drywall <small>322119575-0003</small>	Pump house-storage room - Drywall system	Brown Fibrous Heterogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
0420-B03-Joint Compound <small>322119575-0003A</small>	Pump house-storage room - Drywall system	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B04-CMU <small>322119575-0004</small>	Pump house-S/E corner wall - CMU & mortar	Gray/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B04-Mortar <small>322119575-0004A</small>	Pump house-S/E corner wall - CMU & mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B05-CMU <small>322119575-0005</small>	Pump house-N wall - CMU & mortar	Gray/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B05-Mortar <small>322119575-0005A</small>	Pump house-N wall - CMU & mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B06-CMU <small>322119575-0006</small>	Pump house-E wall - CMU & mortar	Gray/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B06-Mortar <small>322119575-0006A</small>	Pump house-E wall - CMU & mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B07 <small>322119575-0007</small>	Pump house roof at penetrations - Roof mastic	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
0420-B08 <small>322119575-0008</small>	Pump house roof at penetrations - Roof mastic	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
0420-B09 <small>322119575-0009</small>	Pump house roof at penetrations - Roof mastic	Black Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected

Initial report from: 10/28/2021 10:16:37



LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

<http://www.LATesting.com> / pasadenalab@latesting.com

LA Testing Order: 322119575

Customer ID: CLAR53

Customer PO:

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0420-B10-Shingle 322119575-0010	Pump house roof-W - Roof-rolled asphalt core	Gray/Black Fibrous Heterogeneous	15% Synthetic	85% Non-fibrous (Other)	None Detected
0420-B10-Roofing 322119575-0010A	Pump house roof-W - Roof-rolled asphalt core	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B11-Shingle 322119575-0011	Pump house roof-E - Roof-rolled asphalt core	Gray/Black Fibrous Heterogeneous	15% Synthetic	85% Non-fibrous (Other)	None Detected
0420-B11-Roofing 322119575-0011A	Pump house roof-E - Roof-rolled asphalt core	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B11-Felt 322119575-0011B	Pump house roof-E - Roof-rolled asphalt core	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
0420-B12-Shingle 322119575-0012	Pump house roof-center - Roof-rolled asphalt core	White/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
0420-B12-Felt 322119575-0012A	Pump house roof-center - Roof-rolled asphalt core	Brown/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
0420-B13 322119575-0013	Pump house-filter room - Concrete	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B14 322119575-0014	Pool deck-W - Concrete	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B15 322119575-0015	Pool deck-E - Concrete	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B16 322119575-0016	Pool tank-E - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B17 322119575-0017	Pool tank-W - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B18 322119575-0018	Pool tank-N - Plaster	White/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B19-Ceramic Tile 322119575-0019	Pool tank floor - Ceramic tile & mortar	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B19-Grout 322119575-0019A	Pool tank floor - Ceramic tile & mortar	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B19-Mortar 322119575-0019B	Pool tank floor - Ceramic tile & mortar	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B20-Ceramic Tile 322119575-0020	Pool tank side wall - Ceramic tile & mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B20-Grout 322119575-0020A	Pool tank side wall - Ceramic tile & mortar	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 10/28/2021 10:16:37



LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

<http://www.LATesting.com> / pasadenalab@latesting.com

LA Testing Order: 322119575

Customer ID: CLAR53

Customer PO:

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0420-B20-Mortar <i>322119575-0020B</i>	Pool tank side wall - Ceramic tile & mortar	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B21 <i>322119575-0021</i>	Pool tank side wall - Ceramic tile & mortar	Gray/White/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B22 <i>322119575-0022</i>	Pool deck around coping - Caulking	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B23 <i>322119575-0023</i>	Pool deck around coping - Caulking	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B24 <i>322119575-0024</i>	Pool tank floor seams - Caulking	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B25-Coping Cement <i>322119575-0025</i> <i>No grout present for analysis.</i>	Pool deck around tank - Coping cement & grout	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B26-Coping Cement <i>322119575-0026</i> <i>No grout present for analysis</i>	Pool deck around tank - Coping cement & grout	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
0420-B27-Coping Cement <i>322119575-0027</i> <i>No grout present for analysis.</i>	Pool deck around tank - Coping cement & grout	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

John Talley (29)

Tania Lopez (12)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

LA Testing maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore LA Testing recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283

Initial report from: 10/28/2021 10:16:37

CLARK SELF CLARK, INC.
HEALTH & SAFETY - ENGINEERING - ENVIRONMENTAL

#322119575

Requested Turn around time

Chain of Custody Form- Bulk Sampling

4 days

CSC Job #	Sampling By	Date Taken	# Samples	Page #	Total Pages	
1030420	Devon Charnley	10-20-21	27	1 of	2	
Job Name & Location			Customer Id No.:			
Gardena Community Aquatic Center			(1004856)			
1654 West 160 th Street						
Gardena, CA						
Sample Analysis:	PLM - Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy		Lab Submitted to:		LA Testing	
ID #	Material Description	HM	Location of Sample	Condition	Friable	Quantity
0420-B01	Drywall system	1	Pump house - storage room	G	N	150
0420-B02		1				
0420-B03		1				
0420-B04	CMU + mortar	2	Pump house - S/E corner wall	G	N	1,500
0420-B05		2	- N. wall			
0420-B06		2	- E. wall			
0420-B07	Roof material	3	Pump house roof at penetrations	G	N	3
0420-B08		3				
0420-B09		3				
0420-B10	Rust-rolled asphalt core	4	Pump house roof, W.	G	N	900
0420-B11		4	, E			
0420-B12		4	, Center			
0420-B13	Concrete	5	Pump house - filter room	G	N	2,500
0420-B14		5	Pool deck - W.			
0420-B15		5	Pool deck - E			
CONDITION CODE		FRIABLE CODE	HOMOGENEOUS CODE		QUANTITY CODE	
G= GOOD D	F= FAIR P= POOR	Y= YES N= NO	HA= HOMOGENEOUS MATERIAL		SF= Square Ft LF= LINEAR Ft	
INSPECTION COMMENTS:		CMU = concrete masonry unit				
Relinquished By:			Date & Time			
[Signature]			10-20-21 @ 1200			
Received By:			Date & Time			
[Signature] (Etc)			10/22/2021 950			

Clark Self Clark

CLARK SEIF CLARK, INC.
HEALTH & SAFETY • ENGINEERING • ENVIRONMENTAL

#322119575

Requested Turn around time

4 days

Chain of Custody Form- Bulk Sampling

CSC Job #	Sampling By	Date Taken	# Samples	Page #	Total Pages	
1030420	Devon Charnley	10-20-21	27	2	of	2
Job Name & Location			Customer Id No.:			
Gardena Community Aquatic Center			(1004856)			
1654 West 160 th Street						
Gardena, CA						
Sample Analysis:	PLM - Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy			Lab Submitted to:		LA Testing
ID #	Material Description	HM	Location of Sample	Condition	Friable	Quantity
0420-B16	Plaster	6	Pool tank, E.	G	N	5,000
0420-B17		6	Pool tank W			
0420-B18		6	Pool tank, N			
0420-B19	Ceramic tile + mortar	7	Pool tank floor	G	N	500
0420-B20		7	Pool tank side wall			
0420-B21		7	Pool tank side wall			
0420-B22	Caulking	8	Pool deck around coping	G	N	50
0420-B23		8				
0420-B24		8	Pool tank floor seams			
0420-B25	Coping, sequest + grout	9	Pool deck around tank	G	N	200
0420-B26		9				
0420-B27		9				
0420-B28						
0420-B29						
CONDITION CODE		FRIABLE CODE	HOMOGENEOUS CODE	QUANTITY CODE		
G= GOOD D	F= FAIR P= POOR	Y= YES N= NO	HA= HOMOGENEOUS MATERIAL	SF= Square Ft.	LF= LINEAR Ft.	
INSPECTION COMMENTS:						
Relinquished By:						
Date & Time			10-20-21 @ 1200			
Received By:						
Date & Time						

Clark Seif Clark

Project Name: Gardena Community Aquatic Center
Project Location: 1654 West 160th Street, Gardena, CA
CSC Project No.: 1030420

APPENDIX B

XRF DATA SHEETS



HEALTH & SAFETY • ENGINEERING • ENVIRONMENTAL

CSC Project No.1030420
Project Name: Gardena Community Aquatic Center
Project Location: 1654 West 160th Street, Gardena, CA
Client: RJM Design Group

XRF LEAD-BASED PAINT AND LEAD-CONTAINING MATERIALS INSPECTION REPORT

Reading No	Site	Room	Side	Component	Substrate	Condition	Color	Results	Results		
									Pbc	Pbc Error	Units
1		SHUTTER CALIBRATION							4.03	0	cps
2		NITON CALIBRATION - SRM 2574					GOLD	Positive	0.7	0.1	mg / cm ^{√2}
3		NITON CALIBRATION - SRM 2574					GOLD	Positive	0.8	0.1	mg / cm ^{√2}
4		NITON CALIBRATION - SRM 2574					GOLD	Positive	0.7	0.1	mg / cm ^{√2}
5	PUMP HOUSE	OUTSIDE	D	WALL	CMU	POOR	BLUE	Negative	0	0.02	mg / cm ^{√2}
6	PUMP HOUSE	OUTSIDE	D	WALL	WOOD	POOR	BLUE	Negative	0	0.02	mg / cm ^{√2}
7	PUMP HOUSE	OUTSIDE	D	DOOR	METAL	POOR	BLUE	Negative	0	0.02	mg / cm ^{√2}
8	PUMP HOUSE	STORAGE	A	WALL	DRYWALL	INTACT	WHITE	Negative	0	0.02	mg / cm ^{√2}
9	PUMP HOUSE	OUTSIDE	A	TRIM	WOOD	INTACT	BLUE	Negative	0	0.02	mg / cm ^{√2}
10	PUMP HOUSE	OUTSIDE	A	TRIM	WOOD	INTACT	BLUE	Negative	0	0.02	mg / cm ^{√2}
11	POOL TANK	OUTSIDE	A	EDGE TILE	CERAMIC	INTACT	BLUE	Negative	0.02	0.03	mg / cm ^{√2}
12	POOL TANK	OUTSIDE	A	LANE LINES	CERAMIC	INTACT	BLACK	Negative	0	0.02	mg / cm ^{√2}
13	POOL TANK	OUTSIDE	A	LANE LINES	CERAMIC	INTACT	BLACK	Negative	0	0.02	mg / cm ^{√2}
14		NITON CALIBRATION - SRM 2574						Positive	0.8	0.2	mg / cm ^{√2}
15		NITON CALIBRATION - SRM 2574						Positive	0.7	0.2	mg / cm ^{√2}
16		NITON CALIBRATION - SRM 2574						Positive	0.8	0.2	mg / cm ^{√2}

Action Level is ≥ 0.7 mg/cm²

Inspection Comments:

This XRF inspection was performed on October 21, 2021 with a Niton Xl_p300 series lead detector, serial no. 25374

Inspector signature

LRC-00006856

CDPH Certification

October 21, 2021

Date

Clark Seif Clark, INC.

PO Box 4299, Chatsworth, California 91313

Office 818 727-2553, Fax 818 727-2556, Web: csceng.com

Project Name: Gardena Community Aquatic Center
Project Location: 1654 West 160th Street, Gardena, CA
CSC Project No.: 1030420

APPENDIX C
SITE PHOTOGRAPHS



Photo 1: pump house roof and penetration mastic



Photo 2: pump house exterior wall



Photo 3: pump house pool heater pipes



Photo 4: pump house storage room drywall wall



Photo 5: pool coping and ceramic tile



Photo 6: pool tank plaster

Project Name: Gardena Community Aquatic Center
Project Location: 1654 West 160th Street, Gardena, CA
CSC Project No.: 1030420

APPENDIX D

SITE SKETCH



CLARK SEIF CLARK, INC.
HEALTH & SAFETY • ENGINEERING • ENVIRONMENTAL

Job Name & Location	Date: 10-20-21
GARDENA COMMUNITY AQUATIC CENTER	CSC Job No.: 1030420
1654 WEST 160TH ST.	Sketch By: D. CHARNLEY
GARDENA, CA	Area(s): PUMP HOUSE & POOL TANK

POOL TANK

PUMP HOUSE

FILTER ROOM

STORAGE

CHEM

North

Project Name: Gardena Community Aquatic Center
Project Location: 1654 West 160th Street, Gardena, CA
CSC Project No.: 1030420

APPENDIX E

ACCREDITATIONS AND CERTIFICATIONS



HEALTH & SAFETY • ENGINEERING • ENVIRONMENTAL



Christian Goerrissen, CAC
818-402-9844



STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:



Christian Goerrissen

CERTIFICATE TYPE:

Lead Inspector/Assessor
Lead Project Monitor

NUMBER:

LRC-00000162
LRC-00000161

EXPIRATION DATE:

5/14/2022
5/14/2022

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD.

State of California
Division of Occupational Safety and Health
Certified Site Surveillance Technician



Devon Charnley

Name

Certification No. **12-4870**

Expires on **04/18/22**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 11192 et seq. of the Business and Professions Code.



STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:



Devon Charnley

CERTIFICATE TYPE:

Lead Sampling Technician

NUMBER:

LRC-00003856

EXPIRATION DATE:

8/13/2022

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/lead or calling (800) 597-LEAD.

APPENDIX “C”

(Department of Community
Development – Permit Guidelines)



DEPARTMENT of COMMUNITY DEVELOPMENT

1700 WEST 162nd STREET / GARDENA, CALIFORNIA 90247-3732 / WWW.CITYOFGARDENA.ORG / PHONE (310) 217-9530

Form CD-1: Waste Management and Recycling Plan

The City of Gardena (City) requires all construction and demolition permit applicants to prepare a waste management and recycling plan in accordance with Ordinance Number 1649 (Municipal Code Chapter 8.20). By completing this form, you are complying with the plan requirement to estimate project disposal tonnage, and identify job site practices for collection and disposition of wastes. If your project is exempt, please complete a separate Form CD-1a. If you have questions, please contact the Department of Community Development for assistance at (310) 217-9530. The completed plan is to be submitted to the City at the time your building permit application is submitted. The diversion deposit and administrative fee is paid directly to the Building & Safety Division. Be sure to retain your copy of this plan and the payment receipt for reimbursement. Please note that no hauler, other than WRG, may be used to transport debris and waste to disposal. Contractors are required to prepare and submit a C&D Waste Diversion Report within 60 days of completion of the project to the City for review and approval.

Job Site Address	
Applicant's Name	Title
Company	Telephone No.
Company Address	
Fax No.	Email Address
Type of Project: <input type="checkbox"/> New Construction <input type="checkbox"/> Demolition <input type="checkbox"/> Renovation	
Type of Building: <input type="checkbox"/> Commercial/Industrial <input type="checkbox"/> Single Family Residence <input type="checkbox"/> Multi-Family Residence	

How will waste be handled during your project? (Please check all that apply)

- ☐ **Job site separation.** Material will be segregated into two or more material-specific bins. For example, one bin for concrete, one bin for metals, one bin for wood, one bin for trash, etc.
- ☐ **Collection and delivery of mixed loads to a materials recovery facility.** Clean construction and demolition material is commingled into a bin. The mixed loads are then delivered to a materials recovery facility for sorting. Trash should be collected in a separate bin and delivered to a landfill.
- ☐ **Green Building.** The applicant is planning to construct its project using "green building" methods to reduce waste, use recycled content materials, incorporate energy conservation, and plan for deconstruction.
- ☐ **WRG.** The applicant will contact WRG at (310) 366-7600 to use WRG as hauler. **WRG is the City of Gardena's only authorized hauler. Failure to use WRG will result in denial of deposit refund.**

How much waste do you expect to generate for disposal through your project? (Specify) _____ tons.

**DEPARTMENT of COMMUNITY DEVELOPMENT**

1700 WEST 162nd STREET / GARDENA, CALIFORNIA 90247-3732 / WWW.CITYOFGARDENA.ORG / PHONE (310) 217-9530

Unless categorically exempt, each applicant who applies for a building and/or demolition permit shall post a deposit in an amount based on square footage of the project, but not less than \$5,000.

Project Value	Deposit Paid
Project Sq. Footage	Project Acres

I hereby certify that the information submitted is true and accurate

Signature	Date
-----------	------

Office Use Only	
<input type="checkbox"/> Exempt	<input type="checkbox"/> Approved, Building Permit No.
Received by	Date



Construction and Inspection Guide

Construction Inspections

Once a building permit has been issued, inspections for the work are required. This process helps assure that the work is being done according to building code safety and seismic standards. You or your contractor must request an inspection when the work has progressed to any of the required inspection points indicated on your permit. Do not cover anything before it is inspected.

To request INSPECTION BY PHONE, please call the Building & Safety Department at (310) 217-9510. Any request for an inspection must be made at least 24 hours in advance. Inspections are available in the morning or in the afternoon. A morning inspection will occur between the hours of 9:00 a.m. and 12:00 p.m. An afternoon inspection will occur between the hours of 1:00 p.m. and 4:00 p.m. When calling to request an inspection, please provide the following information:

1. Name and telephone number where you can be reached between 8 a.m. and 5 p.m.
2. Address of the job
3. Permit number
4. Type of inspection needed
5. Date and time preferred

Construction Debris and Other Building Materials Removal

Waste Resource of Gardena (WRG) is the only authorized hauler for construction/demolition/grading projects in the City of Gardena. Using any other hauler for any construction related project listed above will result in legal action and fines. WRG's customer service number is (310) 366-7600.

Construction Hours

All construction related activity is restricted to the hours of 7:00 a.m. to 6:00 p.m., Monday through Friday, and 9:00 a.m. to 6:00 p.m. on Saturday. No construction activity is permitted on Sundays or any of the following legally observed holidays: Memorial Day, Fourth of July, Labor Day, Thanksgiving, Christmas Day and New Year's Day.

Construction Site Signage

Prior to the beginning of grading, demolition, or construction activity, at least one 12"X18" weatherproof sign must be posted on each street frontage of the project site at a location acceptable to the Building Inspector that displays the working hours and the name and emergency phone number of the contractor.

Construction Site Security

All construction sites are required to be secured from unauthorized access with an eight foot (8') chain link fence covered with a windscreen.

Best Practices for Construction Activities:

1. All persons working at the site should obtain, read, and understand the Best Management Practices pamphlet for the type(s) of construction being done.
2. Stockpiles of soil, demolition debris, cement, sand, top soil, etc. must be covered with waterproof material or bermed to prevent being washed off site.



DEPARTMENT of COMMUNITY DEVELOPMENT

1700 WEST 162nd STREET / GARDENA, CALIFORNIA 90247-3732 / WWW.CITYOFGARDENA.ORG / PHONE (310) 217-9530

3. Fuels, oils, paints, solvents, and other liquid materials must be kept inside bermed areas. Spills must not be washed to the street.
4. Waste concrete cannot be washed into street, storm drain catch basins, or public right-of-way. All dust and slurry from concrete cutting must be removed using a wet-dry vacuum or equivalent.
5. Trash and other construction solid wastes must be placed in a covered trash receptacle.
6. Eroded soil from disturbed slopes must be contained using berms, silt fences, setting basins, or good erosion management practices such as reseeding.
7. Wash water from cleaning construction vehicles and equipment must be kept on-site within a containment area.



Construction and
Demolition
Diversion Program
City of Gardena



Community Development Department
1700 W. 162nd Street
Gardena, CA 90247

In 2003, the City of Gardena (City) adopted a diversion program for construction and demolition wastes. The purpose of the program is to provide an incentive to encourage the diversion (recycling or reuse) of specific materials that represent a large percentage of the City's overall municipal waste stream. Any contractor or builder that applies for a building permit is required to remit a diversion deposit in an amount set by resolution of the City Council (exceptions do exist, and are described below). The deposit is fully refundable if at least 65% of all wastes generated during construction and demolition are diverted from landfills, and appropriate documentation is provided to the City. This booklet will guide you through this process, and explain the amount of the deposit, the mechanism for refund, and the documentation required. There are four easy steps to follow to assure compliance with the program, and to ultimately save you money through reduced waste disposal cost.

Step 1 DETERMINE APPLICABILITY & COMPLETE FORM CD-1

Determine Applicability— Unless specifically exempted, each person (applicant) who applies for a building or demolition permit must fulfill the requirements of the construction and demolition program described in this package.

See next page for CALGreen Construction Waste Reduction Requirements and Applications.

Form CD-1—Unless exempt, an applicant is required to prepare a Waste Management and Recycling Plan by completing Form CD-1 (Form CD-1 is included in this booklet). On this form, the applicant will estimate the amount of waste they expect to generate through their construction and/or demolition project. Waste materials include, but are not limited to, soil, wood, wallboard, concrete, and mixed trash. As part of the waste management and recycling plan, the applicant should decide how they intend to assure that at least 65% of the waste that the project will generate, will be diverted from landfill. Wood, concrete, asphalt, metal, glass, drywall, ceramic, brick, and many other materials are all readily recyclable (or reusable if segregated properly). Please note that submittal and approval of an accurate and complete waste management and recycling plan is a precondition to issuance of any building permit. Submit your completed Form CD-1 to the City with your completed building permit application.

The following table contains the 2016 CALGreen Construction Waste Reduction Requirements:

Occupancy	2016 CALGreen State Code Requirements and Applications
	Effective 1/1/2017
Non-Residential Compliance Methods (5.408)	≥ 65% C&D Waste Diversion of non-hazardous materials are required to submit a construction waste management plan (5.408.1.1) and utilize a City approved waste management company (5.408.1.2)
New Construction	All newly constructed buildings.
Demolition	100% of all concrete and dirt . — 65% of all non-hazardous materials.
Addition (301.3)	All structures 1000 sq ft or more.
Alterations (301.3)	All structures \$200,000 or more.
Tier 1 (Voluntary) (A5.408.3.1)	≥ 80% Construction Waste Diversion
Tier 2 (Voluntary) (A5.408.3.1.1)	≥ 95% Construction Waste Diversion
Residential Compliance Methods (4.408)	≥ 65% C&D Waste Diversion and may be required to submit a construction waste management plan (4.408.2) and utilize a City approved waste management company (4.408.3)
Low-Rise-3 stories or less (4.408.4)	≥ 65% C&D Waste Diversion
High-Rise-4 stories or more (4.408.4.1)	All permitted structures.
New Construction	All permitted structures
Demolition	100% of all concrete and dirt. - 65% of all non-hazardous materials.
Additions (301.1)	All permitted structures.
Alterations (301.1)	All permitted structures.
Tier 1 (Voluntary) (A4.408.1)	≥ 80% C&D Waste Diversion
Tier 2 (Voluntary)	≥ 95% C&D Waste Diversion

Step 2

PAY YOUR DIVERSION DEPOSIT & YOUR ADMINISTRATIVE FEE

Project Value	Deposit Amount
> \$50,000—\$99,999	\$5,000
\$100,000—\$249,999	\$7,500
\$250,000—\$499,999	\$10,000
\$500,000 +	\$15,000

Diversion Deposit— Unless specifically exempted by one of the project types listed under step 1, each person (applicant) who applies for a building and/or demolition permit shall post a cash deposit in an amount as specified in the table above, but will not exceed \$15,000.

The diversion deposit will be refunded in full upon proof that at least 65% of the project waste was recycled and/or diverted . Waste Resource Management (WRG) is the only authorized hauler for the City of Gardena. You can contact them at 310-366-7600. Failure to use WRG will result in denial of deposit refund.

Administrative Fee— In addition to the diversion deposit, an administrative fee must also be paid to the City. The fee will compensate the City for all expenses incurred in administering the construction and demolition program, including site inspections, document review, and processing. The administrative fee is non-refundable and is calculated based on one percent (1%) of the dollar value of a project, but not to exceed \$5,000. If your project is exempt, there is no administrative fee.

Deposit and administrative fee payments can be made in the form of cash, check, cashier's check, money order, or credit card (VISA, Mastercard, or Discover Card). Payments should be made to the **City of Gardena**.

Make your payments when you submit your completed Form CD-1 and building permit application. If desired, a single payment can be issued to the City for both the diversion deposit and the administrative fee.

Step 3

DIVERT C&D WASTES THROUGH RECYCLING OR REUSE

It is the responsibility of every owner, general contractor, subcontractor, and developer to divert the maximum amount of salvageable and reusable materials away from landfilling. Materials diverted prior to demolition and during and after construction are equally eligible for diversion "credit." "Divert" or "diversion" means a reduction in the amount of waste being disposed in landfills by any of the following methods: use of new construction methods that reduce the amount of waste generated, onsite reuse of waste, job site separation and delivery to a recycling facility, delivery of mixed but clean materials to an approved materials recovery facility, and other methods as approved in advance by the City. All waste diversion methods that qualify for a refund of the diversion deposit are subject to restrictions and documentation requirements set forth in the City's Municipal Code.

Be sure to keep all weight receipts issued by any recycling facility and maintain records or logs of the volume and weight of materials reused on the job site.

To help you make decision about waste management and recycling, the City has prepared a separate booklet entitled "Recycling Practices for Construction and Demolition Projects" describing methods of diversion, local outlets for materials, and hints about best management practices for recycling and reuse.

The City will monitor and evaluate each construction and demolition project to gauge the project and progress toward the diversion requirements.



**Why
Recycle**

Step

4

APPLY FOR DEPOSIT REFUND

At the completion, and prior to, the final inspection and issuance of any certificate of occupancy of the demolition and/or construction project, the applicant shall submit documents to the Building and Safety Department, which proves compliance with the diversion requirements of this program. The documentation shall consist of:

1. A completed Form CD-2, "Recycling and Reuse Summary Report," summarizing the weight data of materials diverted and disposed (Form CD-2 is included in this booklet).
2. Originals or photocopies of receipts, weight tickets, or other records of measurement from recycling facilities, salvage companies, deconstruction contractors, waste haulers, processors, transfer stations, and landfills.

A properly completed "Recycling and Reuse Summary Report", and all receipts, must be submitted to the City at least five day prior to a request for final inspection and issuance of a certificate of occupancy.

Deposits will not be refunded to applicants who do not meet the timely reporting requirements of the Municipal Code. Also, failure to conform to the diversion requirements could affect approval of future permits. A deposit refund will be issued for any project where a building permit was withdrawn or cancelled before any work was begun.

What is a "green" building, and why should I care?

A green building is a sustainable building; that is, a structure designed, built, operated and reused in a resource efficient manner. Of the total expenditures owner may make over the course of the building's service lifetime, the design and construction cost (the so-called first costs) will account for 5 to 10% of the total life cycle cost. In contrast, operations and maintenance cost will account for 60 to 80% of the total life cycle cost.

Some easy tips: 1) minimize wastewater by using ultra low-flush toilets, and incorporate hot water re-circulating systems, and self-closing nozzles on hoses; 2) reuse and recycle C&D waste onsite such as inert wastes for base material for a parking lot; 3) protect and retain existing landscaping; and 4) take advantage of natural features including the use of plants that have low water and pesticide needs, and generate minimum plant trimmings.



Construction and Demolition Debris Removal



The City of Gardena has an Exclusive Franchise Agreement with Waste Resources to collect all solid waste generated within city limits. For construction and/or renovation projects, this means that all contractors, sub-contractors, business owners, and residents that are going to rent or contract for temporary hauling services, must hire Waste Resources to perform this service¹. Waste Resources will deliver the material to a recycling facility in order to assist with recycling mandates and local ordinances.

Bins are available in the following sizes:

One-Time or Temporary Service²

3 cubic yard



Price for temporary service is based on number of pickups per week.

10, 15, 25, and 40 cubic yards



Price includes service + dump fee and may include demurrage charges for bins that are not serviced regularly.

For contractors with their own bins, we encourage them to deliver all construction and demolition debris to a recycling facility for processing. A list of local facilities can be found at:

<http://ladpw.org/epd/brtap/recyclingsite/results.cfm?search=construction>.

¹ The only exception is when a prime general contractor owns their own bin and the debris is hauled by employees of the prime contractor.

² Prices quoted will include all City taxes and fees.



Waste Resources, Inc.
Today's Waste, Tomorrow's Resource

P.O. Box 2410
Gardena, CA 90247

Toll Free #: (888) 467-7600
www.wasteresources.com
info@wasteresources.com

T: (310) 366-7600
F: (310) 366-7606

APPENDIX “D”

(Geotechnical Investigation and
Infiltration Testing Reports)

November 19, 2021

RJM Design Group
31591 Camino Capistrano
San Juan Capistrano, California 92675



Attention: Mr. Eric Chastain, LLA
Principal, Landscape Architect

Project No.: 21G242-2

Subject: Results of Infiltration Testing
Proposed Community Aquatic and Senior Center
1654 West 160th Street
Gardena, California

Reference: Geotechnical Investigation, Proposed Community Aquatic and Senior Center, 1654 West 160th Street, Gardena, California, prepared by Southern California Geotechnical, Inc. (SCG) for RJM Design Group, SCG project No. 21G242-1, dated November 19, 2021.

Mr. Chastain:

In accordance with your request, we have conducted infiltration testing at the subject site. We are pleased to present this report summarizing the results of the infiltration testing and our design recommendations.

Scope of Services

The scope of services performed for this project was in general accordance with our Proposal No. 21P336, dated July 28, 2021. The scope of services included site reconnaissance, subsurface exploration, field testing, and engineering analysis to determine the infiltration rates of the on-site soils. The infiltration testing was performed in general accordance with the Guidelines for Geotechnical Investigation and Reporting – Low Impact Development Stormwater Infiltration (GS200.1), prepared by Los Angeles County, Department of Public Works, Geotechnical and Materials Engineering Division, dated June 30, 2021.

Site and Project Description

The site is located at the street address of 1654 West 160th Street in Gardena, California. The site is bounded to the north by 160th Street, to the west by Harvard Boulevard, to the south by residential fourplexes and the Gardena Gymnasium, and to the east by La Salle Avenue. The general location of the site is illustrated on the Site Location Map, enclosed as Plate 1 in Appendix A of this report.

The site consists of multiple rectangular-shaped lots which total 0.9± acres in size. The lots are currently developed with the Primm Memorial Pool and two residential fourplexes with two detached garage structures. The existing structures range from 900 to 2,500± ft² in size. Several of the buildings share common walls. The majority of these buildings are one- to two-

story structures of wood frame and stucco construction, and are presumed to be supported on conventional shallow foundations with raised wood floors. The buildings are generally surrounded by Portland cement concrete (PCC) pavements which are in poor to fair condition, with moderate to severe cracking throughout. Turf grass and a few trees surround the buildings.

Detailed topographic information was not available at the time of this report. Based on elevations obtained from Google Earth, and visual observations made at the time of the subsurface investigation, the overall site topography is relatively flat.

Proposed Development

A preliminary conceptual site plan for the proposed development was provided to our office by the client. Based on the information provided by the client, demolition of the existing buildings, pool and pavements will be necessary to construct new development. The new development, identified as the Community Aquatics and Senior Center, will include a new L-shaped building, a 25-yard competition pool with a diving area, an activity pool, hardscape pathways, and new landscaping areas. The proposed swimming pool is expected to be 8 to 12± feet deep.

The proposed development will include on-site infiltration to dispose of storm water. We understand that the infiltration system will consist of a below-grade chamber system located in the western region of the site. The bottom of the chamber system is expected to be located at a depth of 10± feet below existing site grades.

Concurrent Study

Southern California Geotechnical, Inc. (SCG) concurrently performed a geotechnical investigation at the subject site, referenced above. As part of this investigation, SCG performed a total of four (4) borings advanced to depths of 20 to 25± feet below the existing site grades.

All of the borings were drilled through existing concrete slab areas. At Boring Nos. B-1 and B-2, the slabs consist of 3 and 3½± inches of Portland cement concrete (PCC) pavements with no reinforcement. At Boring Nos. B-3 and B-4, the slabs consist of 5± inches of PCC, reinforced with welded wire mesh. Artificial fill soils were encountered beneath the pavements at all of the boring locations. The fill soils generally consist of loose to medium dense silty fine sands and fine sandy silts, and stiff to very stiff silty clays, extending to depths of 2½± to 8± feet below the existing site grades. The fill soils possess a disturbed, mottled appearance, resulting in their classification as artificial fill. Native alluvium was encountered below the fill soils at all of the boring locations, extending to at least the maximum depth explored of 25± feet below existing site grades. The alluvium generally consists of loose to medium dense silty fine sands, clayey fine sands and fine sandy silts, and medium stiff to very stiff silty clays and clayey silts.

Groundwater

Free water was encountered during drilling at Boring Nos. B-3 and B-4 at a depth of about 23½± feet below ground surface. No delayed readings were performed at the boring locations due to caving within the open boreholes after the augers were withdrawn. Based on the moisture contents of the recovered soil samples and the observations made at the time of

drilling, the static groundwater table is considered to have existed at a depth of $23\frac{1}{2}\pm$ feet below existing site grades, at the time of the subsurface investigation.

Subsurface Exploration

Scope of Exploration

The subsurface exploration for the infiltration testing consisted of two (2) infiltration test borings advanced to a depth of $10\pm$ feet below the existing site grades. The borings were logged during drilling by a member of our staff and were advanced using a limited access drilling rig, equipped with 7-inch-diameter hollow stem augers. The approximate locations of the infiltration test borings (identified as I-1 and I-2) are indicated on the Infiltration Test Location Plan, enclosed as Plate 2 of this report.

Upon the completion of the infiltration borings, the bottom of each test boring was covered with $2\pm$ inches of clean $\frac{3}{4}$ -inch gravel. A sufficient length of 3-inch-diameter perforated PVC casing was then placed into each test hole so that the PVC casing extended from the bottom of the test hole to the ground surface. Clean $\frac{3}{4}$ -inch gravel was then installed in the annulus surrounding the PVC casing.

Geotechnical Conditions

Artificial fill soils were encountered at the ground surface at both of the boring locations, extending to a depth of $5\pm$ feet below the existing site grades. The fill soils generally consist of very stiff silty clays and sandy clays. Native alluvial soils were encountered beneath the fill soils at both of the infiltration boring locations, extending to at least the maximum depth explored of $10\pm$ feet below ground surface. The native alluvial soils consist of medium dense silty sands with little clay and medium dense clayey sands and stiff sandy clays. The Boring Logs, which illustrate the conditions encountered at the infiltration test locations, are included with this report.

Groundwater

Free water was not encountered during the drilling of any of the infiltration borings. Based on the moisture content of the recovered soil samples and the lack of free water in the borings, the static groundwater table exists at a depth greater than the maximum explored depth of $10\pm$ feet below existing site grades.

As part of our research, we reviewed available groundwater data in order to determine the historic high groundwater level for the site. The primary reference used to determine the historic groundwater depths in the area of the subject site is CGS Seismic Hazard Zone Report, Open File Report 98-18, Plate 1.3 for the Inglewood 7.5 Minute Quadrangle, which indicates that the historic high groundwater level for the site was $25\pm$ feet below the ground surface.

Infiltration Testing

As previously mentioned, the infiltration testing was performed in general accordance with the guidelines published by the County of Los Angeles – Department of Public Works Geotechnical

and Materials Engineering Division, titled Guidelines for Design, Investigation, and Reporting Low Impact Development Stormwater Infiltration, GS200.1.

Pre-soaking

Both of the infiltration test borings were pre-soaked for at least 1 hour to ensure the sand around the annulus of the perforated pipe was fully saturated. The pre-soaking procedure consisted of filling each test boring with clean potable water to an elevation of at least 12± inches above the bottom of each test boring. In accordance with the Los Angeles County guidelines, since the water in both of the infiltration test borings did not completely infiltrate within a 30-minute time period after filling each boring, a falling head test was the appropriate test method.

Infiltration Testing Procedure

After the completion of the pre-soaking process, SCG performed the infiltration testing. A sufficient amount of water was added to the test borings so that the water level was approximately 12± inches higher than the bottom of the borings and less than or equal to the water level used during the pre-soaking process. Readings were taken at 30-minute intervals at all of the infiltration test locations. A stabilized rate of drop, where the highest and lowest readings from three consecutive readings are within 10 percent of each other, was obtained for each of the test borings. These water level readings are presented on the spreadsheets enclosed with this report. The infiltration rates for each of the timed intervals are also tabulated on the spreadsheets.

The infiltration rates for the tests are tabulated in inches per hour. In accordance with the typically accepted practice, it is recommended that the most conservative reading from the latter part of the infiltration tests be used for design. These rates are summarized below:

<u>Infiltration Test No.</u>	<u>Depth (feet)</u>	<u>Soil Description</u>	<u>Measured Infiltration Rate (inches/hour)</u>
I-1	10	Light Brown Silty fine Sand, little Clay, trace medium Sand	0.9
I-2	10	Brown Clayey fine Sand to fine Sandy Clay, trace medium Sand	0.9

Laboratory Testing

Moisture Content

The moisture contents for selected soil samples from the trenches were determined in accordance with ASTM D-2216 and are expressed as a percentage of the dry weight. These test results are presented on the Boring Logs.

Grain Size Analysis

The grain size distribution of selected soils collected from the base of each infiltration test trench has been determined using a range of wire mesh screens. These tests were performed in general accordance with ASTM D-422 and/or ASTM D-1140. The weight of the portion of the sample retained on each screen is recorded and the percentage finer or coarser of the total weight is calculated. The results of the grainsize analysis are presented on Plates C-1 and C-2 of this report.

Design Recommendations

Two (2) infiltration tests were performed at the subject site. As noted above, the measured infiltration rates at the infiltration test locations are 0.9 inches per hour. The Guidelines for Geotechnical Investigation and Reporting Low Impact Development Stormwater Infiltration, GS200.1 prepared by the County of Los Angeles, Department of Public Works, Geotechnical and Materials Division (GMED) on June 30, 2021 dictate that a reduction factor be utilized in the design infiltration rate. The following reduction factors are considered in the design infiltration rate:

Reduction Factor	
Small Diameter Boring	$RF_t = 1$
Site Variability, number of tests, and thoroughness of subsurface investigation	$RF_v = 1$
Long-term siltation plugging and maintenance	$RF_v = 1$
Total Reduction Factor, $RF = RF_t + RF_v + RF_v$	$RF = 3$
Design Infiltration Rate (DIR) = Measured Infiltration Rate (MIR)/RF	$DIR = 0.3$

Based on the results of the infiltration testing and reduction factors, we recommend an infiltration rate of 0.3 inches per hour be used for the proposed infiltration system located in the western area of the subject site. The major factor affecting the lack of infiltration at these locations is the presence of very fine-grained soils.

The design of the proposed storm water infiltration systems should be performed by the project civil engineer, in accordance with the City of Gardena/County of Los Angeles guidelines. However, it is recommended that the system be constructed so as to facilitate removal of silt and clay, or other deleterious materials from any water that may enter the systems. The presence of such materials would decrease the effective infiltration rates. It is recommended that the project civil engineer apply an appropriate factor of safety. The infiltration rates recommended above are based on the assumption that only clean water will be introduced to the subsurface profile. Any fines, debris, or organic materials could significantly impact the infiltration rates. It should be noted that the recommended infiltration rates are based on infiltration testing at two (2) discrete locations and the overall infiltration rates of the storm water infiltration systems could vary considerably.

Infiltration Rate Considerations

The infiltration rates presented herein were determined in accordance with the Los Angeles County guidelines and are considered valid only for the time and place of the actual test. Varying subsurface conditions will exist in other areas of the site, which could alter the recommended infiltration rates

presented above. The infiltration rates will decline over time between maintenance cycles as silt or clay particles accumulate on the BMP surface. The infiltration rate is highly dependent upon a number of factors, including density, silt and clay content, grainsize distribution throughout the range of particle sizes, and particle shape. Small changes in these factors can cause large changes in the infiltration rates.

Infiltration rates are based on unsaturated flow. As water is introduced into soils by infiltration, the soils become saturated and the wetting front advances from the unsaturated zone to the saturated zone. Once the soils become saturated, infiltration rates become zero, and water can only move through soils by hydraulic conductivity at a rate determined by pressure head and soil permeability. Changes in soil moisture content will affect the infiltration rate. Infiltration rates should be expected to decrease until the soils become saturated. Soil permeability values will then govern groundwater movement. Permeability values may be on the order of 10 to 20 times less than infiltration rates. The system designer should incorporate adequate factors of safety and allow for overflow design into appropriate traditional storm drain systems, which would transport storm water off-site.

Construction Considerations

The infiltration rates presented in this report are specific to the tested locations and tested depths. Infiltration rates can be significantly reduced if the soils are exposed to excessive disturbance or compaction during construction. Compaction of the soils at the bottom of the infiltration system can significantly reduce the infiltration ability of the basins. Therefore, the subgrade soils within proposed infiltration system areas should not be over-excavated, undercut or compacted in any significant manner. It is recommended that a note to this effect be added to the project plans and/or specifications.

We recommend that a representative from the geotechnical engineer be on-site during the construction of the proposed infiltration systems to identify the soil classification at the base of each system. It should be confirmed that the soils at the base of the proposed infiltration systems correspond with those presented in this report to ensure that the performance of the systems will be consistent with the rates reported herein.

We recommend that scrapers and other rubber-tired heavy equipment not be operated on the basin bottom, or at levels lower than 2 feet above the bottom of the system, particularly within basins. As such, the bottom 24 inches of the infiltration systems should be excavated with non-rubber-tired equipment, such as excavators.

Location of Infiltration Systems

The use of on-site storm water infiltration systems carries a risk of creating adverse geotechnical conditions. Increasing the moisture content of the soil can cause the soil to lose internal shear strength and increase its compressibility, resulting in a change in the designed engineering properties. Overlying structures and pavements in the infiltration area could potentially be damaged due to saturation of the subgrade soils. The proposed infiltration systems for this site should be located at least 25 feet away from any structures, including retaining walls. Even with this provision of locating the infiltration system at least 25 feet from the building(s), it is possible that infiltrating water into the subsurface soils could have an adverse effect on the proposed or existing structures. It should also be noted that utility trenches which happen to collect storm water can also serve as conduits to transmit storm water toward the structure, depending on the slope of the utility trench. Therefore,

consideration should also be given to the proposed locations of underground utilities which may pass near the proposed infiltration system.

The infiltration system designer should also give special consideration to the effect that the proposed infiltration systems may have on nearby subterranean structures, open excavations, or descending slopes. In particular, infiltration systems should not be located near the crest of descending slopes, particularly where the slopes are comprised of granular soils. Such systems will require specialized design and analysis to evaluate the potential for slope instability, piping failures and other phenomena that typically apply to earthen dam design. This type of analysis is beyond the scope of this infiltration test report, but these factors should be considered by the infiltration system designer when locating the infiltration systems.

General Comments

This report has been prepared as an instrument of service for use by the client in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other design consultants to disclose information relative to the project. However, this report is not intended to be utilized as a specification in and of itself, without appropriate interpretation by the project architect, structural engineer, and/or civil engineer. The design of the infiltration system is the responsibility of the civil engineer. The role of the geotechnical engineer is limited to determination of infiltration rate only. By using the design infiltration rates contained herein, the civil engineer agrees to indemnify, defend, and hold harmless the geotechnical engineer for all aspects of the design and performance of the infiltration system. The reproduction and distribution of this report must be authorized by the client and Southern California Geotechnical, Inc. Furthermore, any reliance on this report by an **unauthorized third party is at such party's sole risk, and we accept no responsibility for damage or loss which may occur.** The analysis of this site was based on a subsurface profile interpolated from limited discrete soil samples. While the materials encountered in the project area are considered to be representative of the total area, some variations should be expected between trench locations and testing depths. If the conditions encountered during construction vary significantly from those detailed herein, we should be contacted immediately to determine if the conditions alter the recommendations contained herein.

This report has been based on assumed or provided characteristics of the proposed development. It is recommended that the owner, client, architect, structural engineer, and civil engineer carefully review these assumptions to ensure that they are consistent with the characteristics of the proposed development. If discrepancies exist, they should be brought to our attention to verify that they do not affect the conclusions and recommendations contained herein. We also recommend that the project plans and specifications be submitted to our office for review to verify that our recommendations have been correctly interpreted. The analysis, conclusions, and recommendations contained within this report have been promulgated in accordance with generally accepted professional geotechnical engineering practice. No other warranty is implied or expressed.

Closure

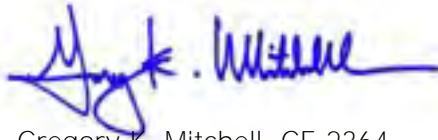
We sincerely appreciate the opportunity to be of service on this project. We look forward to providing additional consulting services during the course of the project. If we may be of further assistance in any manner, please contact our office.

Respectfully Submitted,

SOUTHERN CALIFORNIA GEOTECHNICAL, INC.



Oscar Sandoval
Staff Engineer

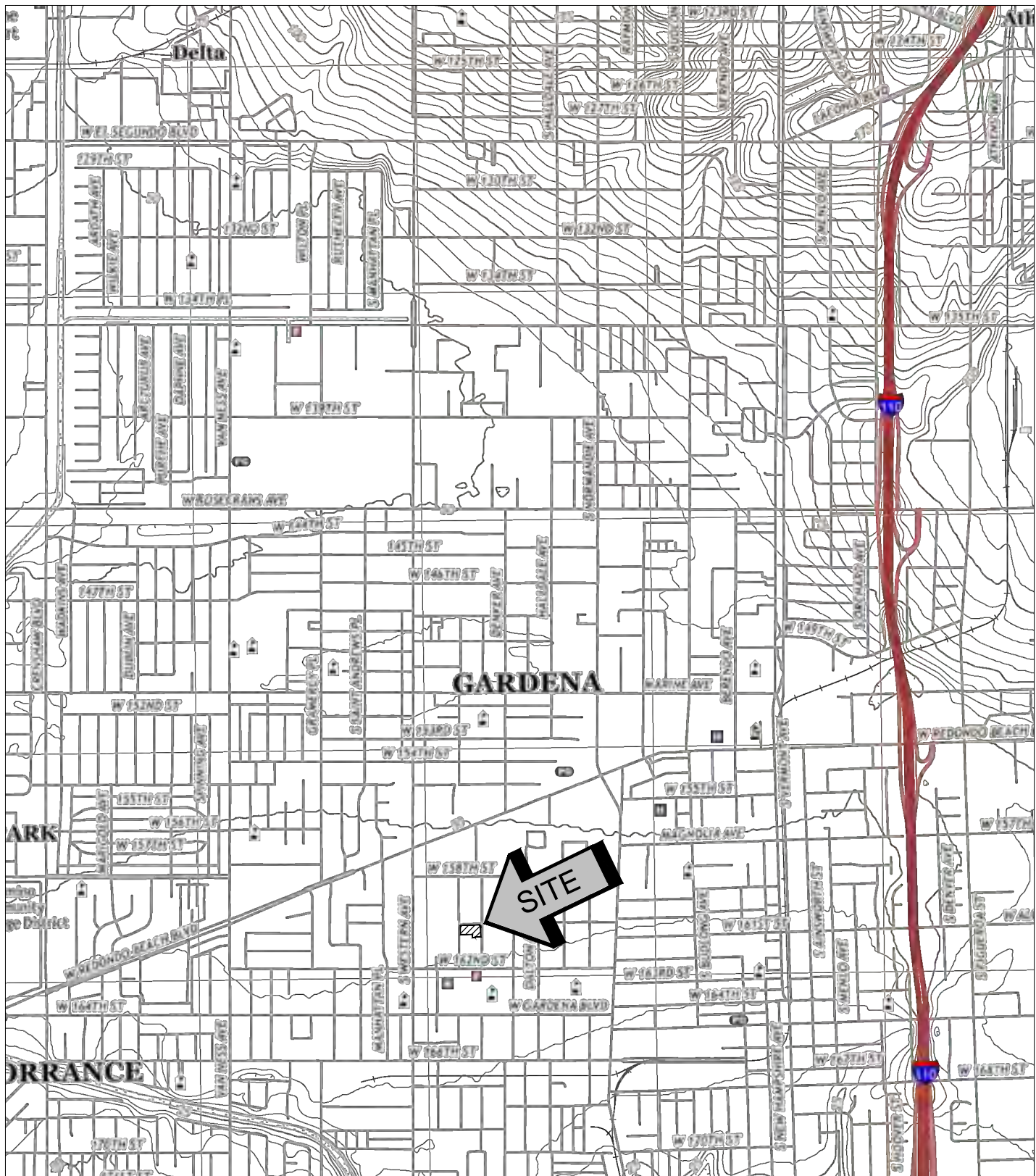


Gregory K. Mitchell, GE 2364
Principal Engineer



Distribution: (1) Addressee

Enclosures: Plate 1 - Site Location Map
Plate 2 - Infiltration Test Location Plan
Boring Logs & Boring Log Legend (4 pages)
Infiltration Test Results Spreadsheets (2 pages)
Grain Size Distribution Results (2 pages)



SOURCE: USGS TOPOGRAPHIC MAP OF THE INGLEWOOD QUADRANGLE, LOS ANGELES COUNTY, CALIFORNIA, 2018.



SITE LOCATION MAP

PROPOSED COMMUNITY AQUATIC AND SENIOR CENTER
GARDENA, CALIFORNIA

SCALE: 1" = 2000'

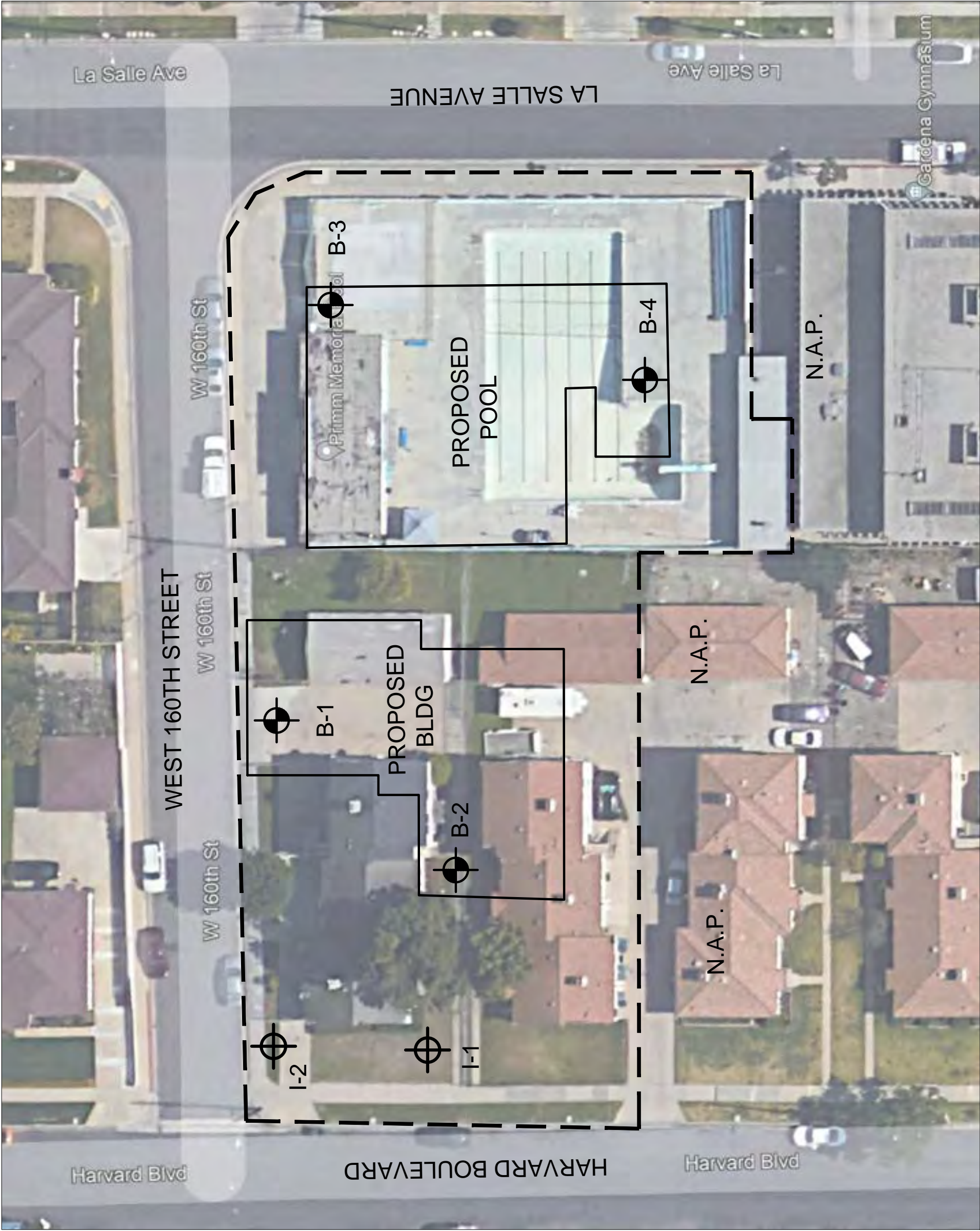
DRAWN: OS

CHKD: GKM

SCG PROJECT

21G242-2

PLATE 1








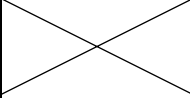


GEOTECHNICAL LEGEND

-  APPROXIMATE BORING LOCATION
-  PROPOSED INFILTRATION LOCATION

NOTE: CONCEPTUAL SITE PLAN PREPARED BY RJM DESIGN GROUP.
AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH

INFILTRATION TEST LOCATION PLAN			
PROPOSED COMMUNITY AQUATIC AND SENIOR CENTER			
GARDENA, CALIFORNIA			
SCALE: 1" = 30'	 <div>SOUTHERN CALIFORNIA GEOTECHNICAL</div>		
DRAWN: OS			
CHKD: GKM			
SCG PROJECT 21G242-2			
PLATE 2			

BORING LOG LEGEND

SAMPLE TYPE	GRAPHICAL SYMBOL	SAMPLE DESCRIPTION
AUGER		SAMPLE COLLECTED FROM AUGER CUTTINGS, NO FIELD MEASUREMENT OF SOIL STRENGTH. (DISTURBED)
CORE		ROCK CORE SAMPLE: TYPICALLY TAKEN WITH A DIAMOND-TIPPED CORE BARREL. TYPICALLY USED ONLY IN HIGHLY CONSOLIDATED BEDROCK.
GRAB		SOIL SAMPLE TAKEN WITH NO SPECIALIZED EQUIPMENT, SUCH AS FROM A STOCKPILE OR THE GROUND SURFACE. (DISTURBED)
CS		CALIFORNIA SAMPLER: 2-1/2 INCH I.D. SPLIT BARREL SAMPLER, LINED WITH 1-INCH HIGH BRASS RINGS. DRIVEN WITH SPT HAMMER. (RELATIVELY UNDISTURBED)
NSR		NO RECOVERY: THE SAMPLING ATTEMPT DID NOT RESULT IN RECOVERY OF ANY SIGNIFICANT SOIL OR ROCK MATERIAL.
SPT		STANDARD PENETRATION TEST: SAMPLER IS A 1.4 INCH INSIDE DIAMETER SPLIT BARREL, DRIVEN 18 INCHES WITH THE SPT HAMMER. (DISTURBED)
SH		SHELBY TUBE: TAKEN WITH A THIN WALL SAMPLE TUBE, PUSHED INTO THE SOIL AND THEN EXTRACTED. (UNDISTURBED)
VANE		VANE SHEAR TEST: SOIL STRENGTH OBTAINED USING A 4 BLADED SHEAR DEVICE. TYPICALLY USED IN SOFT CLAYS-NO SAMPLE RECOVERED.

COLUMN DESCRIPTIONS

DEPTH:

Distance in feet below the ground surface.

SAMPLE:

Sample Type as depicted above.

BLOW COUNT:

Number of blows required to advance the sampler 12 inches using a 140 lb hammer with a 30-inch drop. 50/3" indicates penetration refusal (>50 blows) at 3 inches. WH indicates that the weight of the hammer was sufficient to push the sampler 6 inches or more.

POCKET PEN.:

Approximate shear strength of a cohesive soil sample as measured by pocket penetrometer.

GRAPHIC LOG:

Graphic Soil Symbol as depicted on the following page.

DRY DENSITY:

Dry density of an undisturbed or relatively undisturbed sample in lbs/ft³.

MOISTURE CONTENT:

Moisture content of a soil sample, expressed as a percentage of the dry weight.

LIQUID LIMIT:

The moisture content above which a soil behaves as a liquid.

PLASTIC LIMIT:

The moisture content above which a soil behaves as a plastic.

PASSING #200 SIEVE:

The percentage of the sample finer than the #200 standard sieve.

UNCONFINED SHEAR:

The shear strength of a cohesive soil sample, as measured in the unconfined state.


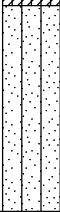
SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50			ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS







JOB NO.: 21G242-2	DRILLING DATE: 10/20/21	WATER DEPTH: Dry
PROJECT: Community Aquatic & Senior Center	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: ---
LOCATION: Gardena, California	LOGGED BY: Oscar Sandoval	READING TAKEN: At Completion

FIELD RESULTS					DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG		DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	
					SURFACE ELEVATION: MSL							
5	X	17			<u>FILL</u> : Dark Gray Brown Silty Clay, trace Iron oxide staining, trace fine root fibers, very stiff-moist to very moist		17					
10	X	15			<u>ALLUVIUM</u> : Light Brown Silty fine Sand, little Clay, trace medium Sand, medium dense-very moist		15			30		
					Boring Terminated at 10'							

TBL 21G242-2.GPJ SOCALGEO.GDT 11/19/21



JOB NO.: 21G242-2	DRILLING DATE: 10/20/21	WATER DEPTH: Dry
PROJECT: Community Aquatic & Senior Center	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: ---
LOCATION: Gardena, California	LOGGED BY: Oscar Sandoval	READING TAKEN: At Completion

FIELD RESULTS					DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG		DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	
					SURFACE ELEVATION: MSL							
5					<u>FILL</u> : Dark Brown fine Sandy Clay, trace fine root fibers, very stiff-moist to very moist		16					
10					<u>ALLUVIUM</u> : Brown Clayey fine Sand to fine Sandy Clay, trace medium Sand, medium dense to stiff-moist		14			50		
					Boring Terminated at 10'							

TBL 21G242-2.GPJ SOCALGEO.GDT 11/19/21

INFILTRATION CALCULATIONS

Project Name	Proposed Community Aquatic and Senior Center
Project Location	Gardena, CA
Project Number	21G242-2
Engineer	OS

Test Hole Radius	3.50 (in)
Test Depth	10.15 (ft)

Infiltration Test Hole	I-1
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Start Time for Pre-Soak	8:45 AM	Water Remaining in Boring (Y/N)	Y
Start Time for Standard	9:15 AM	Time Interval Between Readings	30min

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Measured Infiltration Rate Q (in/hr)	Reduction Factor (RF)	Design Infiltration Rate Q (in/hr)
1	Initial	9:15 AM	30.0	8.40	0.55	1.5	1.2	3.0	0.4
	Final	9:45 AM		8.95					
2	Initial	9:45 AM	30.0	8.30	0.55	1.6	1.1	3.0	0.4
	Final	10:15 AM		8.85					
3	Initial	10:15 AM	30.0	8.20	0.55	1.7	1.1	3.0	0.4
	Final	10:45 AM		8.75					
4	Initial	10:45 AM	30.0	8.25	0.55	1.6	1.1	3.0	0.4
	Final	11:15 AM		8.80					
5	Initial	11:15 AM	30.0	8.25	0.55	1.6	1.1	3.0	0.4
	Final	11:45 AM		8.80					
6	Initial	11:45 AM	30.0	8.30	0.45	1.6	0.9	3.0	0.3
	Final	12:15 PM		8.75					

Design Infiltration Rate = (Measured Infiltration Rate)/(Reduction Factor)

Reduction Factor (RF) = $RF_t + RF_v + RF_s$

Reduction Factors	
Double-ring Infiltrometer	$RF_t = 1 \text{ to } 3$
Shallow Test Pit	
Small Diameter Boring	
Large Diameter Boring	
High Flow-rate	$RF_t = 3$
Grain Size Analysis Method	$RF_t = 2 \text{ to } 3$
Site variability, number of tests and thoroughness of subsurface investigation	$RF_v = 1 \text{ to } 3$
Long-term siltation, plugging, and maintenance	$RF_s = 1 \text{ to } 3$

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where: Q = Measured Infiltration Rate (in inches per hour)
 ΔH = Change in Height (Water Level) over the time interval
r = Test Hole (Borehole) Radius
 Δt = Time Interval
 H_{avg} = Average Head Height over the time interval

INFILTRATION CALCULATIONS

Project Name	Proposed Community Aquatic and Senior Center
Project Location	Gardena, CA
Project Number	21G242-2
Engineer	OS

Test Hole Radius	3.50 (in)
Test Depth	10.25 (ft)

Infiltration Test Hole	I-2
------------------------	-----

Start Time for Pre-Soak	8:16 AM	Water Remaining in Boring (Y/N)	Y
Start Time for Standard	8:46 AM	Time Interval Between Readings	30min

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Measured Infiltration Rate Q (in/hr)	Reduction Factor (RF)	Design Infiltration Rate Q (in/hr)
1	Initial	8:46 AM	30.0	8.80	0.45	1.2	1.1	3.0	0.4
	Final	9:16 AM		9.25					
2	Initial	9:16 AM	30.0	8.80	0.45	1.2	1.1	3.0	0.4
	Final	9:46 AM		9.25					
3	Initial	9:46 AM	30.0	8.80	0.35	1.3	0.9	3.0	0.3
	Final	10:16 AM		9.15					
4	Initial	10:16 AM	30.0	8.80	0.35	1.3	0.9	3.0	0.3
	Final	10:46 AM		9.15					
5	Initial	10:46 AM	30.0	8.80	0.35	1.3	0.9	3.0	0.3
	Final	11:16 AM		9.15					
6	Initial	11:16 AM	30.0	8.80	0.35	1.3	0.9	3.0	0.3
	Final	11:46 AM		9.15					

Design Infiltration Rate = (Measured Infiltration Rate)/(Reduction Factor)

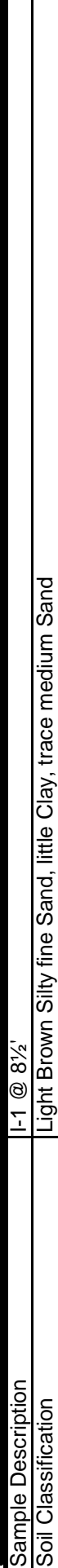
Reduction Factor (RF) = RF_t+RF_v+RF_s

Reduction Factors	
Double-ring Infiltrometer	RF _t = 1 to 3
Shallow Test Pit	
Small Diameter Boring	
Large Diameter Boring	
High Flow-rate	RF _t = 3
Grain Size Analysis Method	RF _t = 2 to 3
Site variability, number of tests and thoroughness of subsurface investigation	RF _v = 1 to 3
Long-term siltation, plugging, and maintenance	RF _s = 1 to 3

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$


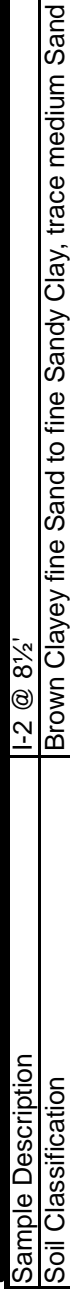
Where: Q = Measured Infiltration Rate (in inches per hour)
 ΔH = Change in Height (Water Level) over the time interval
 r = Test Hole (Borehole) Radius
 Δt = Time Interval
 H_{avg} = Average Head Height over the time interval

Sieve Analysis		
Hydrometer Analysis		



**SOUTHERN
CALIFORNIA
GEOTECHNICAL**

Sieve Analysis		
Sieve Analysis		
Hydrometer Analysis		



SOUTHERN
CALIFORNIA
GEOTECHNICAL

The map shows the project location in Los Angeles, California. The project is located at the intersection of the Harbor Freeway (I-110) and the Harbor Freeway (I-405). The map includes labels for various streets and highways, as well as the project location marked with a red dot and a line pointing to the text "PROJECT LOCATION".

Streets shown include: EL SEGUNDO BLVD, 135th ST., ROSECRANS AVE., MARINE AVE., MANHATTAN BEACH BLVD., REDONDO AVE., BEACH BLVD., 158th ST., MAGNOLIA AVE., 161st ST., GARDENA BLVD., 164th ST., 166th ST., 168th ST., 170th ST., ARTESIA BLVD., NORMANDIE, WESTERN, VAN NESS, 182nd, TORRANCE, CRENSHAW, and VERNON.

Highways shown include: I-110, I-405, and I-91.

The map also shows the City of Los Angeles and the City of Torrance.



DEMOLITION GENERAL NOTES

1.

CONTRACTOR SHALL CONDUCT A SURVEY OF EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED TO DETERMINE AND VERIFY THE EXTENT OF DEMOLITION REQUIRED.
2.

CONTRACTOR SHALL RECORD EXISTING CONDITIONS BY USE OF PRE-CONSTRUCTION PHOTOGRAPHS, PRE-CONSTRUCTION VIDEOTAPES, AND DRAWINGS AS APPROPRIATE.
3.

A SURVEY SHALL BE PERFORMED AS WORK PROGRESSES TO DETECT HAZARDS RESULTING FROM DEMOLITION ACTIVITIES.
4.

CONTRACTOR SHALL KEEP INVENTORY AND RECORD THE CONDITION OF ITEMS TO BE REMOVED.
5.

LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AS THE FIRST ITEM OF WORK AND PROTECT THEM FROM DAMAGE. NOTIFY OWNER IMMEDIATELY IF DAMAGE OCCURS AND ASSUME FULL RESPONSIBILITY FOR EXPENSE OF REPAIR OR REPLACEMENT. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD FIELD CONDITIONS VARY FROM THOSE SHOWN ON PLAN.
6.

WHEN UNANTICIPATED ELECTRICAL, STRUCTURAL, OR OTHER ELEMENTS INCLUDING STORM DRAIN, WATER AND SEWER LINES THAT CONFLICT WITH INTENDED DESIGN ARE ENCOUNTERED, CONTRACTOR SHALL INVESTIGATE AND MEASURE THE NATURE AND EXTENT OF CONFLICT AND CONTRACTOR SHALL PROMPTLY SUBMIT A WRITTEN REPORT TO THE CITY.
7.

CONTRACTOR SHALL LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS SERVING AREAS TO BE SELECTIVELY DEMOLISHED AND:

•

SHALL ARRANGE TO SHUT OFF INDICATED UTILITIES WITH UTILITY COMPANIES.

•

IF SERVICES/SYSTEMS ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, BEFORE PROCEEDING WITH DEMOLITION CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES/SYSTEMS THAT BYPASS AREA OF DEMOLITION AND THAT MAINTAIN CONTINUITY OF SERVICES/SYSTEMS TO OTHER PARTS OF BUILDING AND SITE.

•

SHALL CUT OFF PIPE OR CONDUIT IN WALLS TO BE REMOVED. CAP, VALVE, OR PLUG AND SEAL REMAINING PORTION OF PIPE OR CONDUIT AFTER BYPASSING. WHERE ENTIRE WALL IS TO BE REMOVED, EXISTING SERVICES/SYSTEMS MAY BE REMOVED WITH REMOVAL OF THE WALL. CONTRACTOR SHALL CUT OFF PIPE OR CONDUIT SO IT WILL NOT BE VISIBLE IN FINISHED CONSTRUCTION.

9.

CONTRACTOR SHALL PROTECT EXISTING SERVICES/SYSTEMS INDICATED AGAINST DAMAGE DURING DEMOLITION OPERATIONS.

10.

INACTIVE OR ABANDONED UTILITIES SHALL BE DISCONNECTED, REMOVED, AND PLUGGED OR CAPPED SUBJECT TO THE LOCAL GOVERNING AGENCIES.

11.

ACTIVE UTILITIES SHALL BE PROTECTED BY AND AT THE EXPENSE OF THE CONTRACTOR. KEEP ANY REQUIRED UTILITY IN OPERATING CONDITION DURING THE ENTIRE PERIOD OF WORK, INCLUDING EXISTING IRRIGATION SYSTEMS FOR LANDSCAPE MAINTENANCE.

12.

DO NOT WILLFULLY PROCEED WITH CONSTRUCTION WHEN IT IS OBVIOUS THAT KNOWN OBSTRUCTIONS EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. ASSUME RESPONSIBILITY FOR ALL NECESSARY REVISION DUE TO FAILURE TO GIVE SUCH NOTIFICATION.

13.

CONTRACTOR SHALL CONDUCT DEMOLITION AND DEBRIS-REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.

14.

CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN AND:

•

SHALL PROVIDE TEMPORARY WEATHER PROTECTION, DURING THE INTERVAL BETWEEN DEMOLITION OF EXISTING CONSTRUCTION ON EXTERIOR SURFACES AND NEW CONSTRUCTION, TO PREVENT WATER LEAKAGE AND DAMAGE TO STRUCTURE AND INTERIOR AREAS.

•

SHALL PROTECT WORK THAT IS TO REMAIN OR THAT IS EXPOSED DURING DEMOLITION OPERATIONS.

•

SHALL COVER AND PROTECT EQUIPMENT THAT HAS NOT BEEN REMOVED.

15.

CONTRACTOR SHALL PROVIDE AND MAINTAIN SHORING, BRACING, AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION AND FINISHES THAT REMAIN, AND TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED. CONTRACTOR SHALL STRENGTHEN OR ADD NEW SUPPORTS WHEN REQUIRED DURING PROGRESS OF DEMOLITION.

16.

DEMOLITION AND REMOVAL WORK SHALL BE CAREFULLY PERFORMED TO AVOID DAMAGE TO EXISTING TREES NOTED ON THE PLANS TO REMAIN.

17.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ADOPTED EDITIONS OF THE UNIFORM BUILDING CODE, THE AMERICANS WITH DISABILITIES ACT, AND ALL OTHER APPLICABLE LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS.

18.

CONTRACTOR SHALL USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN THE LIMITATIONS OF GOVERNING REGULATIONS AND AS FOLLOWS:

•

SHALL NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED, USING CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. USE HAND TOOLS OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING AND CHOPPING, TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES. TEMPORARILY COVER OPENINGS TO REMAIN.

•

SHALL CUT OR DRILL FROM THE EXPOSED OR FINISHED SIDE INTO CONCEALED SURFACES TO AVOID MARRING EXISTING FINISHED SURFACES.

•

SHALL NOT USE CUTTING TORCHES UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. AT CONCEALED SPACES, SUCH AS DUCT AND PIPE INTERIORS, VERIFY CONDITION AND CONTENTS OF HIDDEN SPACE BEFORE STARTING FLAME-CUTTING OPERATIONS. MAINTAIN FIRE WATCH AND PORTABLE FIRE-SUPPRESSION DEVICES DURING FLAME-CUTTING OPERATIONS.

•

SHALL MAINTAIN ADEQUATE VENTILATION WHEN USING CUTTING TORCHES.

•

SHALL REMOVE DECAYED, TERMITE-INFESTED, VERMIN-INFESTED, OR OTHERWISE DANGEROUS OR UNSUITABLE MATERIALS AND PROMPTLY DISPOSE OF OFF-SITE.

•

SHALL LOCATE DEMOLITION EQUIPMENT AND REMOVE DEBRIS AND MATERIALS SO AS NOT TO IMPOSE EXCESSIVE LOADS ON STRUCTURES TO REMAIN.

19.

CLEAR THE SITE OF GRASS, WEED GROWTH, RUBBISH, DEBRIS, PAVEMENT, CONCRETE, INACTIVE OR ABANDONED FACILITIES (VERIFIED BY THE AGENCY), THAT ARE TO BE REMOVED FOR CONSTRUCTION OF THE SITE IMPROVEMENTS TO THE LIMITS AND DEPTHS SHOWN ON THE PLANS.

20.

ABANDONED UNDERGROUND FACILITIES (VERIFIED BY THE AGENCY), ROOTS THREE INCHES IN DIAMETER AND LARGER, AND ROCKS AND BROKEN MASONRY LARGER THAN 4 INCHES IN ANY DIMENSION SHALL BE REMOVED TO A MINIMUM DEPTH OF 12" BELOW FINISH GRADE.

21.

ALL DELETERIOUS MATERIALS WITHIN THE LIMITS OF THE WORK SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, WHO SHALL MAKE ALL NECESSARY ARRANGEMENTS AND PAY ALL RELATED COSTS.

22.

CONTRACTOR SHALL REMOVE DEMOLISHED MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM AT THE CONTRACTOR'S EXPENSE IN AN EPA-APPROVED LANDFILL AND:

•

SHALL NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.

•

SHALL REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.

23.

CONTRACTOR SHALL NOT BURN DEMOLISHED MATERIALS.

24.

CONTRACTOR SHALL CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS AND RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE DEMOLITION OPERATIONS BEGAN.

GENERAL NOTES:

1.

ALL GRADING AND CONSTRUCTION SHALL CONFORM TO THE CITY OF GARDENA BUILDING CODE AND THE 2019 CALIFORNIA BUILDING CODE AND UNLESS SPECIFICALLY NOTED ON THESE PLANS.

2.

ANY MODIFICATIONS OF OR CHANGES TO APPROVED GRADING PLANS MUST BE APPROVED BY THE BUILDING OFFICIAL.

3.

NO GRADING SHALL BE STARTED WITHOUT FIRST NOTIFYING THE BUILDING OFFICIAL. A PRE-GRADING MEETING AT THE SITE IS REQUIRED BEFORE THE START OF THE GRADING WITH THE FOLLOWING PEOPLE PRESENT: OWNER, GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, SOILS ENGINEER, GEOLOGIST, COUNTY GRADING INSPECTOR(S) OR THEIR REPRESENTATIVES, AND WHEN REQUIRED THE ARCHEOLOGIST OR OTHER JURISDICTIONAL AGENCIES. PERMITEE OR HIS AGENT ARE RESPONSIBLE FOR ARRANGING PRE-GRADE MEETING AND MUST NOTIFY THE BUILDING OFFICIAL AT LEAST TWO BUSINESS DAYS PRIOR TO PROPOSED PRE-GRADE MEETING.

4.

APPROVAL OF THESE PLANS REFLECT SOLELY THE REVIEW OF PLANS IN ACCORDANCE WITH THE COUNTY OF LOS ANGELES BUILDING CODES AND DOES NOT REFLECT ANY POSITION BY THE COUNTY OF LOS ANGELES OR THE DEPARTMENT OF PUBLIC WORKS REGARDING THE STATUS OF ANY TITLE ISSUES RELATING TO THE LAND ON WHICH THE IMPROVEMENTS MAY BE CONSTRUCTED. ANY DISPUTES RELATING TO TITLE ARE SOLELY A PRIVATE MATTER NOT INVOLVING THE COUNTY OF LOS ANGELES OR THE DEPARTMENT OF PUBLIC WORKS.

5.

ALL GRADING AND CONSTRUCTION ACTIVITIES SHALL COMPLY WITH COUNTY OF LOS ANGELES CODE, TITLE 12, SECTION 12.12.030 THAT CONTROLS AND RESTRICTS NOISE FROM THE USE OF CONSTRUCTION AND GRADING EQUIPMENT FROM THE HOURS OF 8:00 PM TO 6:30 AM, AND ON SUNDAYS AND HOLIDAYS. (MORE RESTRICTIVE CONSTRUCTION ACTIVITY TIMES MAY GOVERN, AS REQUIRED BY THE DEPARTMENT OF REGIONAL PLANNING AND SHOULD BE SHOWN ON THE GRADING PLANS WHEN APPLICABLE.)

6.

CALIFORNIA PUBLIC RESOURCES CODE (SECTION 5097.98) AND HEALTH AND SAFETY CODE (SECTION 7050.5) ADDRESS THE DISCOVERY AND DISPOSITION OF HUMAN REMAINS. IN THE EVENT OF DISCOVERY OR RECOGNITION OF ANY HUMAN REMAINS IN ANY LOCATION OTHER THAN A DEDICATED CEMETERY, THE LAW REQUIRES THAT GRADING IMMEDIATELY STOPS AND NO FURTHER EXCAVATION OR DISTURBANCE OF THE SITE, OR ANY NEARBY AREA WHERE HUMAN REMAINS MAY BE LOCATED, OCCUR UNTIL THE FOLLOWING HAS BEEN MEASURED HAVE BEEN TAKEN:

a.

THE COUNTY CORONER HAS BEEN INFORMED AND HAS DETERMINED THAT NO INVESTIGATION OF THE CAUSE OF DEATH IS REQUIRED, AND

b.

IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN, THE DESCENDANTS FROM THE DECEASED NATIVE AMERICANS HAVE MADE A RECOMMENDATION FOR THE MEANS OF TREATING OR DISPOSING, WITH APPROPRIATE DIGNITY, OF THE HUMAN REMAINS AND ANY ASSOCIATED GRAVE GOODS.

7.

THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE PERMITEE.

8.

ALL EXPORT OF MATERIAL FROM THE SITE MUST GO TO A PERMITTED SITE APPROVED BY THE BUILDING OFFICIAL OR A LEGAL DUMPSITE. RECEIPTS FOR ACCEPTANCE OF EXCESS MATERIAL BY A DUMPSITE ARE REQUIRED AND MUST BE PROVIDED TO THE BUILDING OFFICIAL UPON REQUEST.

9.

A COPY OF THE GRADING PERMIT AND APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.

10.

SITE BOUNDARIES, EASEMENTS, DRAINAGE DEVICES, RESTRICTED USE AREAS SHALL BE LOCATED PER CONSTRUCTION STAKING BY FIELD ENGINEER OR LICENSED SURVEYOR. PRIOR TO GRADING, AS REQUESTED BY THE BUILDING OFFICIAL, ALL PROPERTY LINES, EASEMENTS, AND RESTRICTED USE AREAS SHALL BE STAKED.

11.

NO GRADING OR CONSTRUCTION SHALL OCCUR WITHIN THE PROTECTED ZONE OF ANY OAK TREE AS REQUIRED PER TITLE CHAPTER 22.56 OF THE COUNTY OF LOS ANGELES ZONING CODE. THE PROTECTED ZONE SHALL MEAN THAT AREA WITHIN THE DRIP LINE OF AN OAK TREE EXTENDING THERE FROM A POINT AT LEAST FIVE FEET OUTSIDE THE DRIP LINE, OR 15 FEET FROM THE TRUNK(S) OF A TREE, WHICHEVER IS GREATER.

IF AN OAK TREE PERMIT IS OBTAINED: (ADD THE FOLLOWING NOTE.)

ALL GRADING AND CONSTRUCTION WITHIN THE PROTECTED ZONE OF ALL OAK TREES SHALL BE PER OAK TREE PERMIT NO. ALL RECOMMENDATIONS IN THE PERMIT AND ASSOCIATED OAK TREE REPORT MUST BE COMPLIED WITH AND ARE A PART OF THE GRADING PLAN. A COPY OF THE OAK TREE PERMIT AND ASSOCIATED REPORTS SHALL BE MAINTAINED IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.

12.

THE STANDARD RETAINING WALL DETAILS SHOWN ON THE GRADING PLANS ARE FOR REFERENCE ONLY. STANDARD RETAINING WALLS ARE NOT CHECKED, PERMITTED, OR INSPECTED PER THE GRADING PERMIT. A SEPARATE RETAINING WALL PERMIT IS REQUIRED FOR ALL STANDARD RETAINING WALLS.

NOTE: THIS NOTE ONLY APPLIES TO STANDARD RETAINING WALLS. GEOGRID FABRIC AND SEGMENTAL RETAINING WALLS DO NOT REQUIRE A SEPARATE RETAINING WALL PERMIT. DETAILS AND CONSTRUCTION NOTES FOR ALL GEOGRID WALLS MUST BE ON THE GRADING PLAN.

13.

A PREVENTIVE PROGRAM TO PROTECT THE SLOPES FROM POTENTIAL DAMAGE FROM BURROWING RODENTS IS REQUIRED PER SECTION J101.8 OF THE COUNTY OF LOS ANGELES BUILDING CODE. OWNER IS TO INSPECT SLOPES PERIODICALLY FOR EVIDENCE OF BURROWING RODENTS AND A FIRST EVIDENCE OF THEIR EXISTENCE SHALL EMPLOY AN EXTERMINATOR FOR THEIR REMOVAL.

14.

WHERE A GRADING PERMIT IS ISSUED AND THE BUILDING OFFICIAL DETERMINES THAT THE GRADING WILL NOT BE COMPLETED PRIOR TO NOVEMBER 1, THE OWNER OF THE SITE ON WHICH THE GRADING IS BEING PERFORMED SHALL, ON OR BEFORE OCTOBER 1, FILE OR CAUSE TO BE FILED WITH THE BUILDING OFFICIAL AN ESCP PER SECTION J110.8.3 OF THE COUNTY OF LOS ANGELES BUILDING CODE.

15.

TRANSFER OF RESPONSIBILITY: IF THE SOILS ENGINEER, OR THE ENGINEERING GEOLOGIST OF RECORD IS CHANGED DURING GRADING, THE WORK SHALL BE STOPPED UNTIL THE REPLACEMENT HAS AGREED IN WRITING TO ACCEPT THEIR RESPONSIBILITY WITHIN THE AREA OF TECHNICAL COMPETENCE FOR APPROVAL UPON COMPLETION OF THE WORK. IT SHALL BE THE DUTY OF THE PERMITEE TO NOTIFY THE BUILDING OFFICIAL IN WRITING OF SUCH CHANGE PRIOR TO THE RECOMMENCEMENT OF SUCH GRADING.

GENERAL GEOTECHNICAL NOTES

16.

ALL WORK MUST BE IN COMPLIANCE WITH THE RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL CONSULTANT'S REPORT(S) AND THE APPROVED PLANS AND SPECIFICATIONS.

17.

GRADING OPERATIONS MUST BE CONDUCTED UNDER PERIODIC INSPECTIONS BY THE GEOTECHNICAL CONSULTANTS AS REQUIRED BY THE CITY OF GARDENA.

18.

THE SOIL ENGINEER SHALL PROVIDE SUFFICIENT INSPECTIONS DURING THE PREPARATION OF THE NATURAL GROUND AND THE PLACEMENT AND COMPACTION OF THE FILL TO BE SATISFIED THAT THE WORK IS BEING PERFORMED IN ACCORDANCE WITH THE PLAN AND APPLICABLE CODE REQUIREMENTS.

19.

ROUGH GRADING MUST BE APPROVED BY A FINAL ENGINEERING GEOLOGY AND SOILS ENGINEERING REPORT. AN AS-BUILT GEOLOGIC MAP MUST BE INCLUDED IN THE FINAL GEOLOGY REPORT. PROVIDE A FINAL REPORT STATEMENT THAT VERIFIES WORK WAS DONE IN ACCORDANCE WITH REPORT RECOMMENDATIONS AND CODE PROVISIONS (SECTION J105.12 OF THE COUNTY OF LOS ANGELES BUILDING CODE). THE FINAL REPORT(S) MUST BE SUBMITTED TO THE CITY OF GARDENA FOR REVIEW AND APPROVAL.

20.

ALL REQUIRED THIRD-PARTY TESTING TO BE PROVIDED AT CONTRACTORS EXPENSE.

FILL NOTES

21.

GRADING WORK IS TO ONLY FOLLOW THE DEMOLITION RECOMMENDATIONS IN THE SOILS REPORT.

a.

OVEREXCAVATION AND PREP. FOR THE FUTURE BUILDING PAD IS NOT REQUIRED FOR ROUGH GRADING.

21.

ALL FILL SHALL BE COMPACTED TO THE FOLLOWING MINIMUM RELATIVE COMPACTION CRITERIA:

a.

90 PERCENT OF MAXIMUM DRY DENSITY WITHIN 40 FEET BELOW FINISH GRADE.

b.

93 PERCENT OF MAXIMUM DRY DENSITY DEEPER THAN 40 FEET BELOW FINISH GRADE, UNLESS A LOWER RELATIVE COMPACTION (NOT LESS THAN 90 PERCENT OF MAXIMUM DRY DENSITY) IS JUSTIFIED BY THE GEOTECHNICAL ENGINEER.

THE RELATIVE COMPACTION SHALL BE DETERMINED BY A S.T.M. SOIL COMPACTION TEST D1557-91 WHERE APPLICABLE: WHERE NOT APPLICABLE, A TEST ACCEPTABLE TO THE BUILDING OFFICIAL SHALL BE USED. (SECTION J107.5 OF THE COUNTY OF LOS ANGELES BUILDING CODE.)

22.

FIELD DENSITY SHALL BE DETERMINED BY A METHOD ACCEPTABLE TO THE BUILDING OFFICIAL. (SECTION J107.5 OF THE COUNTY OF LOS ANGELES BUILDING CODE.) HOWEVER, NOT LESS THAN 10% OF THE REQUIRED DENSITY TEST, UNIFORMLY DISTRIBUTED, AND SHALL BE OBTAINED BY THE SAND CONE METHOD.

23.

SUFFICIENT TESTS OF THE FILL SOILS SHALL BE MADE TO DETERMINE THE RELATIVE COMPACTION OF THE FILL IN ACCORDANCE WITH THE FOLLOWING MINIMUM GUIDELINES:

a.

ONE TEST FOR EACH TWO-FOOT VERTICAL LIFT.

b.

ONE TEST FOR EACH 1,000 CUBIC YARDS OF MATERIAL PLACED.

c.

ONE TEST AT THE LOCATION OF THE FINAL FILL SLOPE FOR EACH BUILDING SITE (LOT) IN EACH FOUR-FOOT VERTICAL LIFT OR PORTION THEREOF.

d.

ONE TEST IN THE VICINITY OF EACH BUILDING PAD FOR EACH FOUR-FOOT VERTICAL LIFT OR PORTION THEREOF.

24.

SUFFICIENT TESTS OF FILL SOILS SHALL BE MADE TO VERIFY THAT THE SOIL PROPERTIES COMPLY WITH THE DESIGN REQUIREMENTS, AS DETERMINED BY THE SOIL ENGINEER INCLUDING SOIL TYPES, SHEAR STRENGTHS PARAMETERS AND CORRESPONDING UNIT WEIGHTS IN ACCORDANCE WITH THE FOLLOWING GUIDELINES:

a.

PRIOR AND SUBSEQUENT TO PLACEMENT OF THE FILL, SHEAR TESTS SHALL BE TAKEN ON EACH TYPE OF SOIL OR SOIL MIXTURE TO BE USED FOR ALL FILL SLOPES STEEPER THAN THREE (3) HORIZONTAL TO ONE VERTICAL.

b.

SHEAR TEST RESULTS FOR THE PROPOSED FILL MATERIAL MUST MEET OR EXCEED THE DESIGN VALUES USED IN THE GEOTECHNICAL REPORT TO DETERMINE SLOPE STABILITY REQUIREMENTS. OTHERWISE, THE SLOPE MUST BE REEVALUATED USING THE ACTUAL SHEAR TEST VALUE OF THE FILL MATERIAL THAT IS IN PLACE.

c.

FILL SOILS SHALL BE FREE OF DELETERIOUS MATERIALS.

25.

FILL SHALL NOT BE PLACED UNTIL STRIPPING OF VEGETATION, REMOVAL OF UNSUITABLE SOILS, AND INSTALLATION OF SUBDRAIN (IF ANY) HAVE BEEN INSPECTED AND APPROVED BY THE SOIL ENGINEER. THE BUILDING OFFICIAL MAY REQUIRE A "STANDARD TEST METHOD FOR MOISTURE, ASH, ORGANIC MATTER, PEAT OR OTHER ORGANIC SOILS" ASTM D-2974-87 ON ANY SUSPECT MATERIAL. DETRIMENTAL AMOUNTS OF ORGANIC MATERIAL SHALL NOT BE PERMITTED IN FILLS. SOIL CONTAINING SMALL AMOUNTS OF ROOTS MAY BE ALLOWED PROVIDED THAT THE ROOTS ARE IN A QUANTITY AND DISTRIBUTED IN A MANNER THAT WILL NOT BE DETRIMENTAL TO THE FUTURE USE OF THE SITE AND THE SOILS ENGINEER APPROVES THE USE OF SUCH MATERIAL.

26.

ROCK OR SIMILAR MATERIAL GREATER THAN 12 INCHES IN DIAMETER SHALL NOT BE PLACED IN THE FILL UNLESS RECOMMENDATIONS FOR SUCH PLACEMENT HAVE BEEN SUBMITTED BY THE SOIL ENGINEER AND APPROVED IN ADVANCE BY THE BUILDING OFFICIAL. LOCATION, EXTENT, AND ELEVATION OF ROCK DISPOSAL AREAS MUST BE SHOWN ON AN "AS BUILT" GRADING PLAN.

27.

CONTINUOUS INSPECTION BY THE SOIL ENGINEER, OR A RESPONSIBLE REPRESENTATIVE, SHALL BE PROVIDED DURING ALL FILL PLACEMENT AND COMPACTION OPERATIONS WHERE FILLS HAVE A DEPTH GREATER THAN 30 FEET OR SLOPE SURFACE STEEPER THAN 2:1. (SECTION J107.8 OF THE COUNTY OF LOS ANGELES BUILDING CODE)

28.

CONTINUOUS INSPECTION BY THE SOIL ENGINEER, OR A RESPONSIBLE REPRESENTATIVE, SHALL BE PROVIDED DURING ALL SUBDRAIN INSTALLATION. (PER THE CITY OF GARDENA BUILDING CODE)

29.

FILL SLOPES IN EXCESS OF 2:1 STEEPNESS RATIO ARE TO BE CONSTRUCTED BY THE PLACEMENT OF SOIL AT SUFFICIENT DISTANCE BEYOND THE PROPOSED FINISH SLOPE TO ALLOW COMPACTION EQUIPMENT TO BE OPERATED AT THE OUTER LIMITS OF THE FINAL SLOPE SURFACE. THE EXCESS FILL IS TO BE REMOVED PRIOR TO COMPLETION OF ROUGH GRADING. OTHER CONSTRUCTION PROCEDURES MAY BE USED WHEN IT IS DEMONSTRATED TO THE SATISFACTION OF THE BUILDING OFFICIAL THAT THE ANGLE OF SLOPE, CONSTRUCTION METHOD AND OTHER FACTORS WILL HAVE EQUIVALENT EFFECT. (SECTION J107.5 OF THE COUNTY OF LOS ANGELES BUILDING CODE.)

PRIVATE ENGINEERS NOTICE TO CONTRACTOR(S)

1.

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES AND/OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. APPROVAL OF THESE PLANS BY THE CITY DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OR COMPLETENESS OF THE LOCATION OR THE EXISTENCE OR NONEXISTENCE OF ANY UTILITY AND/OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR IS REQUIRED TO TAKE ALL DUE PRECAUTIONARY MEANS TO PROTECT THE UTILITIES OF RECORD OR NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

2.

RELOCATION OR REMOVAL OF ANY EXISTING UTILITIES SHALL BE PERFORMED BY THE RESPECTIVE UTILITY OWNERS, AT THE EXPENSE OF THE CONTRACTOR.

3.

UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS AND THE CITY.

CONTRACTOR'S RESPONSIBILITY

THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS.

THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL APPLY CONTINUOUS AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

DIAL TOLL FREE
1-800-422-4133

AT LEAST TWO DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

PREPARED BY:

civTEC
999 CORPORATE DR.
SUITE 100
LADERA RANCH, CA 92694
P: 949.463.8822
E: tec@civtec.net

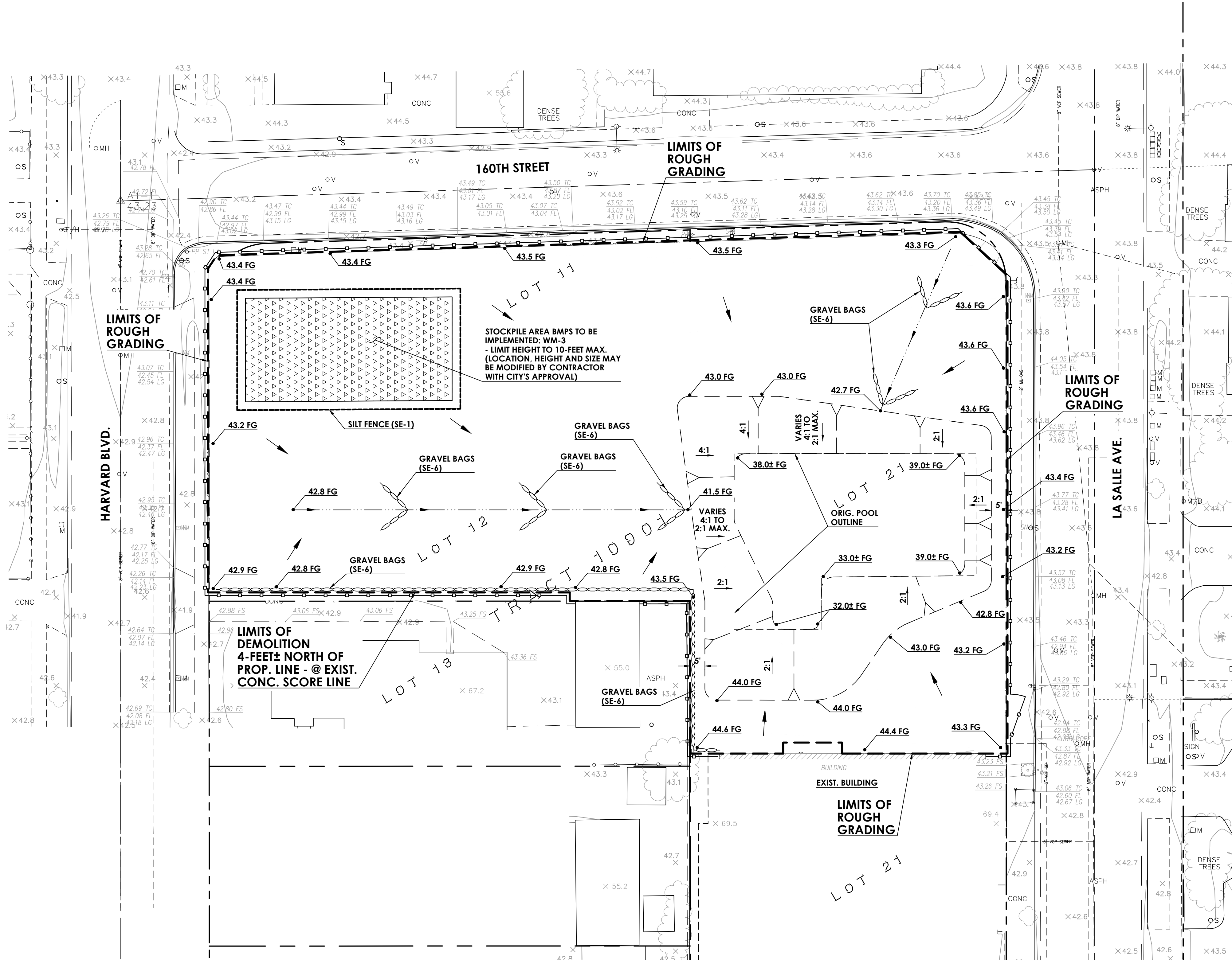
3/08/2022

REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED

B.M.: THE CITY OF GARDENA BENCHMARK NO. 5D-15
ELEV. = 43.508'

CITY OF GARDENA			
DEPARTMENT OF PUBLIC WORKS - ENGINEERING			
DEMOLITION PLAN ADDITIONAL NOTES			
COMMUNITY AQUATICS & SENIOR CENTER			
D-1.02			
DESIGNED BY	INITIAL	DATE	APPROVED BY:
DRAWN BY	TEC	3/8/22	<i>Harold Allan Rigg</i>
CHECKED BY	TEC		DATE
			DIRECTOR OF PUBLIC WORKS
SHT.	3	OF	4
DWG. NO.	5-2606		

PLOT DATE: 3/8/2022



ROUGH GRADE GENERAL NOTES

SEE SHEET D-1.02 FOR ADDITIONAL NOTES.

LEGEND

	PROPERTY LINE
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION
	PROPOSED SLOPE
	EXISTING UTILITY LINE (TYPE AND SIZE AS NOTED)
	GRADE BREAK LINE
	FLOWLINE
	LIMITS OF ROUGH GRADING
	4-FOOT TALL CONSTRUCTION FENCE - LOCATION MAY BE REVISED WITH CITY APPROVAL
	GRAVEL BAGS (SE-6)

B.O.W.	BACK OF WALK
BLDG.	BUILDING
C.B.	CATCH BASIN
C.L.F.	CHAIN LINK FENCE
C&G	CURB & GUTTER
C.L.	CENTERLINE
C.O.	CLEANOUT
CONC.	CONCRETE
D.G.	DECOMPOSED GRANITE
DWY.	DRIVEWAY
D.F.	DRINKING FOUNTAIN
ELEC.	ELECTRIC
E.P.	EDGE OF PAVEMENT
F.F.	FINISHED FLOOR
F.H.	FIRE HYDRANT
F.L.	FLOWLINE
F.S.	FINISHED SURFACE
G.B.	GRADE BREAK
H.C.	HANDICAP
H.P.	HIGH POINT
INV.	INVERT
IRR. OR IRRIG.	IRRIGATION
L.P.	LOW POINT
M.H.	MANHOLE
P/A	PLANTER AREA
P.P.	POWER POLE
P.O.C.	POINT OF CONNECTION
R.D.	ROOF DRAIN
R.O.W.	RIGHT OF WAY
SD	STORM DRAIN
ST.	STREET
T.C.	TOP OF CURB
T.D.	TOP OF DECK
TEL.	TELEPHONE
T.G.	TOP OF GRATE
T.H.W.	TOP OF HEADWALL
T.F.	TOP OF FOOTING
T.O.S.	TOP OF SUBGRADE
T.W.	TOP OF WALL
S	SANITARY SEWER
W	WATER
W.I.F.	WROUGHT IRON FENCE
W.M.	WATER METER
W.V.	WATER VALVE

BASIS OF BEARINGS

BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF 162 ND STREET (FORMERLY MARKET STREET) BEING N 89° 55' 30" E SHOWN ON TRACT NO. 10901, M.B. 254/31-32.

BENCHMARK

THE CITY OF GARDENA BENCHMARK NO. 5D-15

ELEV. = 43.508'

EARTHWORK **

AREA DISTURBED:	0.85± ACRES
CUT	900 CUBIC YARDS
FILL	175 CUBIC YARDS
STOCKPILE	725 CUBIC YARDS

* THE ABOVE CUT/FILL QUANTITIES ARE FOR PERMIT PURPOSES ONLY. THIS CALCULATION DOES NOT INCLUDE SOILS FROM BUILDING OR WALL FOOTINGS, NOR ANY UTILITY TRENCHING. CONTRACTOR SHALL REFER TO THE SOILS REPORT FOR STATEMENTS CONCERNING GRADING REQUIREMENTS. THIS CALCULATION ALSO ASSUMES THAT THE EXISTING CONCRETE AND ASPHALT SURFACES WILL BE REMOVED FROM THE SITE AND NOT BE REPURPOSED FOR ONSITE FILL.

**** NOTICE TO THE CONTRACTOR**

THE ESTIMATES OF IMPROVEMENT AND GRADING QUANTITIES AS SHOWN HEREON ARE PROVIDED FOR SATISFYING PLAN CHECK INFORMATION REQUIREMENTS ONLY. THE CONTRACTOR SHALL PERFORM AN INDEPENDENT ESTIMATE OF ALL IMPROVEMENT QUANTITIES INCLUDING GRADING QUANTITIES, AND SHALL USE SAME AS A BASIS FOR HIS BID(S) AND CONTRACT(S).

THE GRADING CONTRACTOR SHALL BE RESPONSIBLE AND ACCOUNT FOR DISTRIBUTING ANY EXCESS MATERIAL OR SUPPLYING ANY DEFICIENCIES TO BRING THE SITE TO DESIGN GRADE.

FILL NOTES

- GRADING WORK IS TO ONLY FOLLOW THE DEMOLITION RECOMMENDATIONS IN THE SOILS REPORT.
 - OVEREXCAVATION AND PREP. FOR THE FUTURE BUILDING PAD IS NOT REQUIRED FOR ROUGH GRADING.
- ALL FILL SHALL BE COMPACTED TO THE FOLLOWING MINIMUM RELATIVE COMPACTION CRITERIA:
 - 90 PERCENT OF MAXIMUM DRY DENSITY WITHIN 40 FEET BELOW FINISH GRADE.
 - 93 PERCENT OF MAXIMUM DRY DENSITY DEEPER THAN 40 FEET BELOW FINISH GRADE, UNLESS A LOWER RELATIVE COMPACTION (NOT LESS THAN 90 PERCENT OF MAXIMUM DRY DENSITY) IS JUSTIFIED BY THE GEOTECHNICAL ENGINEER.

THE RELATIVE COMPACTION SHALL BE DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D1557-91 WHERE APPLICABLE; WHERE NOT APPLICABLE, A TEST ACCEPTABLE TO THE BUILDING OFFICIAL SHALL BE USED. (SECTION J107.5 OF THE COUNTY OF LOS ANGELES BUILDING CODE.)

NOTE TO CONTRACTOR:
ALL UTILITIES SHOULD BE SHUT OFF AND CAPPED PER UTILITY COMPANY REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANY PRIOR TO COMMENCEMENT OF WORK.

NOTE TO CONTRACTOR:
INSTALL 6-FOOT CHAIN LINK FENCE WITH WINDSCREEN AND GATES, WHERE NECESSARY, ALONG THE PERIMETER OF THE SITE AS NEEDED. CONTRACTOR SHALL PROTECT THESE FENCES AND KEEP AREA FULLY SECURE DURING DEMOLITION.

NOTE TO CONTRACTOR:
ALL GRADING AND EARTHWORK IS TO BE DONE IN ACCORDANCE WITH THE EARTHWORK SPECIFICATION AND AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
ALL COMPACTION OF NEW FILL SOILS IS TO BE DONE IN ACCORDANCE WITH THE EARTHWORK SPECIFICATION AND AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

NOTE TO CONTRACTOR:
THE DEMOLITION CONTRACTOR SHALL MAINTAIN THE EXCAVATION IN COMPLIANCE WITH THE STORMWATER REGULATIONS AND PROVIDE PUMPING AND DESILTING DEVICES WHILE THE UNDER CONTRACT TO THE END OF THE RAINY SEASON, BEING APRIL 1. THE CITY WILL ONLY COVER PUMPING OF THE POOL EXCAVATION AFTER THE DEMOLITION CONTRACT NOTICE OF COMPLETION IS FILED.

STORMWATER MITIGATION MEASURES (BMPs)

THE FOLLOWING BMP'S AS OUTLINED IN, BUT NOT LIMITED TO, THE BEST MANAGEMENT PRACTICE HANDBOOK, CALIFORNIA STORMWATER QUALITY TASK FORCE, SACRAMENTO, CALIFORNIA 2009, OR THE LATEST REVISED EDITION, APPLY DURING THE CONSTRUCTION OF THIS PROJECT. (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY CITY INSPECTORS)

- NS-1 WATER CONSERVATION PRACTICES *
- NS-2 DEWATERING OPERATIONS *
- NS-3 PAVING OPERATIONS *
- NS-7 POTABLE WATER/IRRIGATION *
- WM-1 MATERIAL DELIVERY AND STORAGE *
- WM-2 MATERIAL USE *
- WM-3 STOCKPILE MANAGEMENT *
- WM-4 SPILL PREVENTION AND CONTROL *
- WM-5 SOLID WASTE MANAGEMENT *
- WM-6 HAZARDOUS WASTE MANAGEMENT *
- WM-7 CONTAMINATED SOIL MANAGEMENT *
- WM-8 CONCRETE WASTE MANAGEMENT *
- WM-9 SANITARY-SEPTIC WASTE MANAGEMENT *
- NS-8 VEHICLE AND EQUIPMENT CLEANING *
- NS-9 VEHICLE AND EQUIPMENT FUELING *
- NS-10 VEHICLE AND EQUIPMENT MAINTENANCE *

- WE-1 WIND EROSION CONTROL
- TC-1 STABILIZED CONSTRUCTION ENTRANCE *
- TC-3 ENTRANCE OUTLET TIRE WASH *
- SE-1 SILT FENCE
- SE-4 CHECK DAMS
- SE-5 FIBER ROLLS
- SE-6 GRAVEL BAG BERM
- SE-7 STREET SWEEPING AND VACUUMING
- SE-9 STRAW BALE BARRIERS
- SE-10 STORM DRAIN INLET PROTECTION
- EC-1 SCHEDULING
- EC-2 PRESERVATION OF EXISTING VEGETATION
- EC-5 SOIL BINDERS

NOTE:
* LOCATIONS TO BE DETERMINED BY CONTRACTOR AND APPROVED BY CITY INSPECTOR



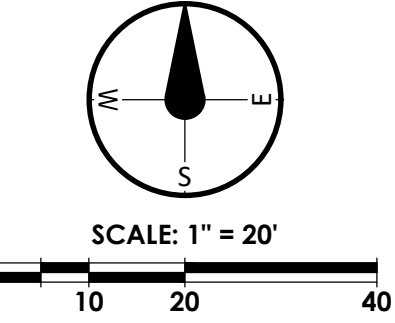
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SUITE 100
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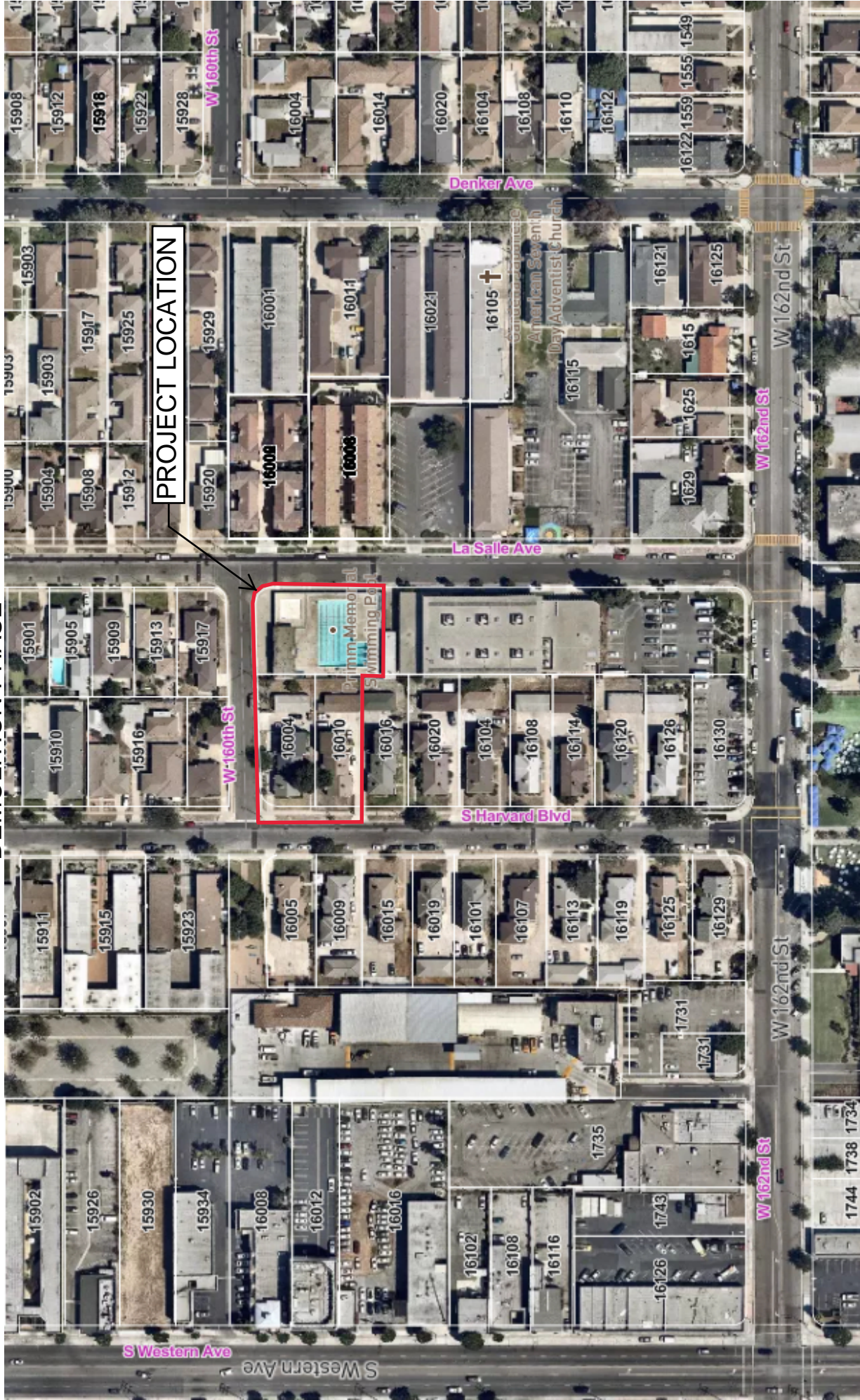
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CITY OF GARDENA			
DEPARTMENT OF PUBLIC WORKS - ENGINEERING			
ROUGH GRADE PLAN			
COMMUNITY AQUATICS & SENIOR CENTER			
D-1.03			
DESIGNED BY	INITIAL	DATE	APPROVED BY:
DRAWN BY	TEC	3/8/22	Harold Allen Rigg
CHECKED BY	STAFF	DATE	DIRECTOR OF PUBLIC WORKS
	TEC		
SHT.	4	OF	4
DWG. NO.	5-2606		

DEMOLITION ONLY
REVIEWED
FOR
CODE COMPLIANCE
Apr 02, 2022
CITY OF GARDENA



Gardena Community Aquatic and Senior Center, JN 978 DEMOLITION PHASE



1" = 200 ft	Project Location Map	2/1/2022	
This map may represent a visual display of related geographic information. Data provided here on is not guarantee of acutual field conditions. To be sure of complete accuracy, please contact the responsible staff for most up-to-date information.			