City of Covina/Successor Agency to the Covina Redevelopment Agency/ Covina Public Financing Authority/ Covina Housing Authority

Mayor John King – Mayor Pro Tem Stapleton
Council Members: Walter Allen – Peggy Delach – Jorge Marquez

REGULAR MEETING AGENDA

125 E. College Street, Covina, California
Council Chamber of City Hall
Tuesday, June 2, 2015
7:30 p.m.

- As a courtesy to Council/Agency/Authority Members, staff and attendees, everyone is asked to silence all cellular telephones and any other communication devices.
- Any member of the public may address the Council/Agency/Authority during both the public comment period and on any scheduled item on the agenda. Comments are limited to a maximum of five minutes per speaker unless, for good cause, the Mayor/Chairperson amends the time limit. Anyone wishing to speak is requested to submit a yellow Speaker Request Card to the City Clerk; cards are located near the agendas or at the City Clerk's desk.
- Please provide 10 copies of any information intended for use at the Council/Agency/Authority meeting to the City Clerk prior to the meeting.
- MEETING ASSISTANCE INFORMATION: In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the City Clerk's Office at (626) 384-5430. Notification 48 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting.
- DOCUMENT AVAILABILITY: Any writings or documents provided to a majority of the Council/Agency/Authority regarding any item on this agenda will be made available for public inspection at the City Clerk's Office at City Hall located at 125 E. College Street and the reference desk at the Covina Library located at 234 North Second Avenue during normal business hours. In addition, such writings and documents are available in the City Clerk's Office and posted on the City's website at www.covinaca.gov.
- Pursuant to Government Code Section 54954.2, no matter shall be acted upon by the City Council/Successor Agency to the Covina Redevelopment Agency/Public Financing Authority/Covina Housing Authority unless listed on agenda, which has been posted not less than 72 hours prior to meeting.
- If you challenge in court any discussion or action taken concerning an item on this agenda, you may be limited to raising only those issues you or someone else raised during the meeting or in written correspondence delivered to the City at or prior to the City's consideration of the item at the meeting.
- The Covina City Clerk's Office does hereby declare that the agenda for the **June 2, 2015** meeting was posted on **May 28, 2015** near the front entrance of the City Hall, 125 East College Street, Covina, near the front entrance of the Covina Public Library, 234 N. Second Avenue, Covina near the front entrance of the Joslyn Center, 815 N. Barranca Avenue, Covina, and on the City's website in accordance with Section 54954.2(a) of the California Government Code.

June 2, 2015

CITY COUNCIL/SUCCESSOR AGENCY TO THE COVINA REDEVELOPMENT AGENCY/COVINA PUBLIC FINANCING AUTHORITY/COVINA HOUSING AUTHORITY JOINT MEETING—OPEN SESSION 7:30 p.m.

CALL TO ORDER

ROLL CALL

Council/Agency/Authority Members Allen, Delach, Marquez, Mayor Pro Tem/Vice Chairperson Stapleton and Mayor/Chairperson King

PLEDGE OF ALLEGIANCE

Led by Council Member Marquez

INVOCATION

Given by Covina Police Chaplain Truax

PRESENTATIONS – No matters scheduled.

PUBLIC COMMENTS

To address the Council/Agency/Authority please complete a yellow speaker request card located at the entrance and give it to the City Clerk/Agency/Authority Secretary. Your name will be called when it is your turn to speak. Those wishing to speak on a LISTED AGENDA ITEM will be heard when that item is addressed. Those wishing to speak on an item NOT ON THE AGENDA will be heard at this time. State Law prohibits the Council/Agency/Authority Members from taking action on any item not on the agenda. Individual speakers are limited to five minutes each.

COUNCIL/AGENCY/AUTHORITY COMMENTS

Council/Agency/Authority Members wishing to make any announcements of public interest or to request that specific items be added to future Council/Agency/Authority agendas may do so at this time.

CITY MANAGER COMMENTS

CONSENT CALENDAR

All matters listed under consent calendar are considered routine, and will be enacted by one motion. There will be no separate discussion on these items prior to the time the Council/Agency/Authority votes on them, unless a member of the Council/Agency/Authority requests a specific item be removed from the consent calendar for discussion.

CC 1. City Council to approve the payment of demands in the amount of $1,330,848.80.

CC 2. Successor Agency to the Redevelopment Agency to receive payment of demands in the amount of $60,643.95.

CC 3. City Council to adopt **Resolution No. 15-7352,** Amending the City of Covina Parks & Recreation Department's Fiscal Year 2014-2015 Operating Budget.

CC 4. City Council to approve request by Valley Development Services Inc. for exemption from the City's business license tax. The organization is located at 1115 E. Puente Street, Covina.

CC 5. City Council to approve Acceptance of Notice of Completion of Public Works Project No. F-1415: Police Department Heating Ventilation Air Conditioning (HVAC) System Upgrade.

CC 6. City Council to authorize Execution of Memorandum of Understanding (MOU) Between Los Angeles County Flood Control District (LACFCD) and Cities of Baldwin Park, Covina, Glendora, Industry, La Puente, and South El Monte for Implementation of the Coordinated Integrated Monitoring Program (CIMP) for the Upper San Gabriel River Watershed.

CC 7. City Council to authorize Execution of Memorandum of Agreement (MOA) with Los Angeles Gateway Region Integrated Regional Water Management Joint Powers Authority (GWMA) for Cost Sharing for Installation of Monitoring Equipment and Monitoring Pursuant to Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters (Harbor Toxic Pollutants) Total Maximum Daily Load (TMDL).

CC 8. City Council to approve Change Orders Nos. 3, 6, 7, 10, 12, 13 & 14 for Project T-0814B, Pedestrian and Metrolink Station Improvements (increasing the construction contract by a total of $44,546) and authorizing the City Manager to execute approved change orders.

CONTINUED BUSINESS

CB 1. Budget Options Report.

Staff Recommendation:
Review City Manager recommendations and provide direction.

NEW BUSINESS

NB 1. Resolutions relating to the annexation of territory to Community Facilities District No. 2007-1 (269-275 W. Center Street).

Staff Recommendation:

1) City Council to consider and adopt **Resolution No. 15-7353**, declaring its intention to authorize the annexation of territory to Community Facilities District No. 2007-1 (Public Services); and
2) City Council to consider and adopt **Resolution No. 15-7354**, adopting boundary map showing territory proposed to be annexed in the future to Community Facilities District No. 2007-1 (Public Services).

NB 2. Review of User Fees.

Staff Recommendation:
City Council to review User Fees as presented.

NB 3. Approve Contract Amendment No. 1 with Alliant Consulting, Inc. for Cougar Park Project #M-1204 in the amount of $4,351.

Staff Recommendation:
City Council to consider and approve Contract Amendment No. 1 with Alliant Consulting, Inc. for Cougar Park Project #M-1204 in the amount of $4,351, increasing the contract cost from $19,410 to $23,761.

NB 4. Approve Change Orders Numbers 1-46 for Cougar Park Project #M-1204 completed by GMZ Engineering in the amount of $204,665.33.

Staff Recommendation:
City Council to consider and approve Change Orders for Cougar Park Project #M-1204 completed by GMZ Engineering in the amount of $204,665.33.

ADJOURNMENT

The Covina City Council/Successor Agency to the Covina Redevelopment Agency/Covina Public Finance Authority/Covina Housing Authority will adjourn to its next regular meeting of the Council/Agency/Authority scheduled for **Tuesday, June 16, 2015,** at 6:30 p.m. for closed session and 7:30 p.m. for open session inside the Council Chamber, 125 East College Street, Covina, California, 91723

CITY OF COVINA
AGENDA ITEM COMMENTARY

MEETING DATE June 2, 2015 **ITEM NO. CC 1**

STAFF SOURCE Debbie Pacheco, Acting Finance Director

ITEM TITLE Payment of Demands

STAFF RECOMMENDATION
Approve Payment of Demands in the amount of $1,330,848.80.

FISCAL IMPACT
Sufficient funding is available and the related costs are included in the FY 14/15 Adopted Budget.

BACKGROUND
Attached is a list of warrants and demands which are being presented for approval and are summarized as follows:

DATE OF DEMANDS		DEMAND NUMBERS	AMOUNT
ACCOUNTS PAYABLE WARRANTS			
May 1 - May 14, 2015	Wires/EFTs	4967-4971	$16,275.42
	Checks	74077-74346	$715,314.87
PAYROLL			
May 6, 2015 PAYROLL DD, CHECKS & TAXES			$385,947.14
May 7, 2015 PAYROLL DD, CHECKS & TAXES			$198,561.08
VOIDS			
May 1 - May 14, 2015		none	
WORKERS COMPENSATION			
May 7, 2015		Week ending 4/22/15	$9,037.02
May 7, 2015		Week ending 5/7/15	$5,713.27
		GRAND TOTAL:	**$1,330,848.80**

EXHIBITS
A. Accounts Payable Register

Respectfully submitted,

Debbie Pacheco
Acting Finance Director

CITY OF COVINA
Check Register
MAY 1-14, 2015

Check #	Check Date	Vendor	Name	Amount
4967	05/07/2015	4160	ICMA	165.00
4968	05/07/2015	1405	ICMA RETIREMENT	5,940.87
4969	05/07/2015	4003	MidAmerica	2,254.17
4970	05/07/2015	2033	NATIONWIDE RETI	7,165.38
4971	05/07/2015	4223	ZUMWALT, KRISTI	750.00
			subtotal EFT/wires	***$16,275.42***
74077	05/05/2015	3768	A & C BILLARDS	252.44
74078	05/05/2015	4209	ADLERHORST INTE	1,495.80
74079	05/05/2015	68	AFLAC	215.34
74080	05/05/2015	74	AGI ACADEMY	49.01
74081	05/05/2015	91	ALAS, NINA	126.00
74082	05/05/2015	4117	ARTISTIC RECONS	70.00
74083	05/05/2015	219	AT&T	200.00
74084	05/05/2015	220	AT&T LONG DISTA	26.66
74085	05/05/2015	255	AZUSA PLUMBING	124.62
74086	05/05/2015	260	B & K ELECTRIC	47.04
74087	05/05/2015	341	BEST BEST & KRI	16,550.41
74088	05/05/2015	423	BRUNSWICK COVIN	175.00
74089	05/05/2015	3740	BUBBLEMANIA AND	375.00
74090	05/05/2015	430	BUILDING ELECTR	75.00
74091	05/05/2015	437	BURRO CANYON EN	130.00
74092	05/05/2015	475	CALIBER POOL AN	3,087.10
74093	05/05/2015	4123	CARDENAS, RUDY	175.00
74094	05/05/2015	536	CARQUEST AUTO P	38.72
74095	05/05/2015	4243	CASTRO & SONS I	301.00
74096	05/05/2015	572	CATHOLIC CHARIT	7,252.00
74097	05/05/2015	589	CELAYA, VERA FL	72.28
74098	05/05/2015	617	CHARTER OAK GYM	2,240.00
74099	05/05/2015	495	COE, JACQUELYN	171.48
74100	05/05/2015	699	COLE, PATRICIA	50.00
74101	05/05/2015	3600	COMMERCIAL DOOR	325.00
74102	05/05/2015	3235	COOK, SHAWNA	800.98
74103	05/05/2015	736	COON, MARK	250.00
74104	05/05/2015	762	COVINA CHAMBER	15.00
74105	05/05/2015	775	COVINA POLICE A	100.00
74106	05/05/2015	783	COVINA WATER	903.23
74107	05/05/2015	3982	CUGNU, CAROL A	326.16
74108	05/05/2015	862	DE ALWIS, DILU	107.50
74109	05/05/2015	4072	DE LEON, JUAN C	518.40
74110	05/05/2015	878	DELTA DENTAL OF	122.02
74111	05/05/2015	970	EDISON CO	624.92
74112	05/05/2015	1018	ESRI	10,000.00
74113	05/05/2015	3911	FACTORY MOTOR P	159.13

CITY OF COVINA
Check Register
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74114	05/05/2015	1055	FEDEX	30.61
74115	05/05/2015	4258	FRANK WRIGHT	200.00
74116	05/05/2015	4126	FUENTES, BRITTA	94.48
74117	05/05/2015	1156	GAS COMPANY, TH	929.52
74118	05/05/2015	1180	GIAMMARCO, ANTH	192.64
74119	05/05/2015	1198	GLOBALSTAR LLC	53.24
74120	05/05/2015	1215	GONZALES, RICHA	357.00
74121	05/05/2015	1298	HARRAHS RINCON	800.00
74122	05/05/2015	4237	HILLCREST CONTR	93,740.30
74123	05/05/2015	1387	HUNTER, JOHN L.	1,776.13
74124	05/05/2015	1394	HYDRO CONNECTIO	46.88
74125	05/05/2015	3988	HYDRO CONNECTIO	34.14
74126	05/05/2015	3732	ILLINOIS LIBRAR	562.60
74127	05/05/2015	3654	JEREMIAH DONOVA	524.96
74128	05/05/2015	4256	JIM O'MALLEY SE	6,629.00
74129	05/05/2015	1561	KEYSTONE UNIFOR	380.31
74130	05/05/2015	1582	KNORR SYSTEMS I	584.16
74131	05/05/2015	3987	KYOCERA DOCUMEN	2,080.34
74132	05/05/2015	1603	LA CNTY	561.00
74133	05/05/2015	1608	LA CNTY CDC/CDB	198.81
74134	05/05/2015	1612	LA CNTY DEPT OF	2,163.23
74135	05/05/2015	1615	LA CNTY MTA	400.00
74136	05/05/2015	1663	LAW ENFORCEMENT	220.00
74137	05/05/2015	3190	LAYNE, JONATHAN	455.44
74138	05/05/2015	3209	LAYNE, SHARON	45.48
74139	05/05/2015	1707	LIEBERT CASSIDY	6,447.70
74140	05/05/2015	1724	LITTLEJOHN-RUEL	457.80
74141	05/05/2015	4212	MALETZ, CHRISTI	124.45
74142	05/05/2015	3932	MAR, ARLENE D.	213.12
74143	05/05/2015	4089	MEASOM, DEVIN T	105.00
74144	05/05/2015	3983	MERCADO, DANIEL	1,155.00
74145	05/05/2015	3753	MICHAEL ACOSTA	179.00
74146	05/05/2015	1933	MISSION LINEN S	63.11
74147	05/05/2015	3236	MUNOZ, VINCENT	882.00
74148	05/05/2015	3718	NADENE VALDEZ	262.48
74149	05/05/2015	3563	NEWEGG INC	40.57
74150	05/05/2015	2091	O REILLY AUTO P	70.11
74151	05/05/2015	2104	OFFICE DEPOT	139.65
74152	05/05/2015	4201	OFFICE TEAM	786.43
74153	05/05/2015	99999	ADRIANA MARTINEZ	50.00
74154	05/05/2015	99999	AFT ONE LLC	500.00
74155	05/05/2015	99999	BROOKE KENGON	0.25
74156	05/05/2015	99999	CORINA L. GUTIERREZ SIMS	157.79
74157	05/05/2015	99999	D L PETERSON TRUST	75.00

CITY OF COVINA
Check Register
MAY 1-14, 2015

74158	05/05/2015	99999	JOSEFINA CERVANTES	25.00
74159	05/05/2015	99999	JOSEPH SANCHEZ	45.00
74160	05/05/2015	99999	KALATRECE YOZGADLIAN	138.00
74161	05/05/2015	99999	PEREZ GUSTAVO	1.00
74162	05/05/2015	99999	RICHANCE COVINA LLC	527.31
74163	05/05/2015	99999	RON R SEELEY	25.00
74164	05/05/2015	99999	TANGO XPRESS TRANSPORTA	100.00
74165	05/05/2015	2163	PACIFIC PARKING	1,260.00
74166	05/05/2015	4178	PAN E VINO	4,145.33
74167	05/05/2015	2189	PARADA, MIGUEL	651.48
74168	05/05/2015	4213	PRISK, JOSHUA	44.80
74169	05/05/2015	2370	RAMIREZ, ULRICH	559.87
74170	05/05/2015	4101	RANCHO JANITORI	652.43
74171	05/05/2015	2415	REPUBLIC MASTER	278.98
74172	05/05/2015	3719	ROBERT HOULE JR	5.25
74173	05/05/2015	3655	ROBERT WONG	243.60
74174	05/05/2015	3882	ROMAN, LILIANA	102.35
74175	05/05/2015	2510	S & S WORLDWIDE	47.09
74176	05/05/2015	2519	SALAMONE, KIMBE	84.00
74177	05/05/2015	2607	SERESINGHE, AJI	1,500.00
74178	05/05/2015	3837	SONSRAY MACHINE	190.64
74179	05/05/2015	2744	STATE DISBURSEM	236.00
74180	05/05/2015	2787	SUTMAN, WILLIAM	85.68
74181	05/05/2015	2790	SWANK MOTION PI	545.00
74182	05/05/2015	2818	TAVANNA	121.10
74183	05/05/2015	2846	THOMAS, TERRI	1,165.49
74184	05/05/2015	2903	TRI-XECUTEX COR	80.00
74185	05/05/2015	2901	TRIFYTT SPORTS	2,115.22
74186	05/05/2015	2907	TRUGREEN LANDSC	8,772.49
74187	05/05/2015	2917	TUMBLEWEED PRES	599.00
74188	05/05/2015	2929	ULINE	189.01
74189	05/05/2015	2954	URBAN GRAFFITI	2,930.28
74190	05/05/2015	2958	US POSTMASTER	1,538.04
74191	05/05/2015	2958	US POSTMASTER	500.00
74192	05/05/2015	2966	V & V MANUFACTU	28.23
74193	05/05/2015	3813	VAN DAM ENGINEE	11,762.50
74194	05/05/2015	3234	VELARDE-KUBANIK	336.00
74195	05/05/2015	4065	VERIZON BUSINES	608.26
74196	05/05/2015	2999	VERIZON CALIFOR	313.86
74197	05/05/2015	3014	VISION SERVICE	21.26
74198	05/05/2015	3014	VISION SERVICE	21.26
74199	05/05/2015	3187	WAGONER, PAMELA	354.20
74200	05/05/2015	3075	WEST COVINA, CI	1,125.00
74201	05/05/2015	3102	WILLDAN FINANCI	3,000.00

74202	05/05/2015	3125	WOODY'S BOATHOU	810.00
74203	05/07/2015	68	AFLAC	4,354.20
74204	05/07/2015	69	AFSCME	1,100.00
74205	05/07/2015	487	CalPERS	79,046.99
74206	05/07/2015	3846	CLEA	490.00
74207	05/07/2015	3846	CLEA	110.25
74208	05/07/2015	775	COVINA POLICE A	2,850.00
74209	05/07/2015	789	COVINA-FSA, CIT	1,355.03
74210	05/07/2015	878	DELTA DENTAL OF	8,907.46
74211	05/07/2015	1106	FRANCHISE TAX B	250.00
74212	05/07/2015	1247	GREAT WEST LIFE	5,542.41
74213	05/07/2015	3795	LEGAL SHIELD	308.46
74214	05/07/2015	2234	PERS	151,311.34
74215	05/07/2015	2235	PERS LONG TERM	238.88
74216	05/07/2015	4230	SOCIAL SECURITY	257.10
74217	05/07/2015	3893	STATE DISBURSEM	247.00
74218	05/07/2015	2946	UNITED WAY OF G	17.50
74219	05/07/2015	3014	VISION SERVICE	879.57
74220	05/07/2015	4255	VOYA FINANCIAL	5,323.04
74221	05/07/2015	3764	WAGEWORKS	36.00
74222	05/07/2015	3045	WASHINGTON NATI	146.99
74223	05/12/2015	3	12 MILES OUT.CO	1,200.00
74224	05/12/2015	30	ACE PELIZON PLU	720.00
74225	05/12/2015	32	ACE-1 AUTO SERV	304.94
74226	05/12/2015	4209	ADLERHORST INTE	1,996.90
74227	05/12/2015	113	ALL CITY MANAGE	5,639.40
74228	05/12/2015	116	ALL STAR GLASS	240.82
74229	05/12/2015	3977	ALLIANT CONSULT	974.00
74230	05/12/2015	151	AMERICAN LIBRAR	270.00
74231	05/12/2015	160	AMERICAN WEST C	275.00
74232	05/12/2015	219	AT&T	33.28
74233	05/12/2015	221	AT&T MOBILITY	1,209.26
74234	05/12/2015	4088	AYRES SUITES YO	462.25
74235	05/12/2015	254	AZUSA LIGHT & W	1,156.30
74236	05/12/2015	260	B & K ELECTRIC	123.41
74237	05/12/2015	269	BAKER AND TAYLO	642.57
74238	05/12/2015	3771	BLACK & WHITE E	532.50
74239	05/12/2015	372	BOBKIEWICZ, ROB	218.86
74240	05/12/2015	477	CALIF, STATE OF	5,975.00
74241	05/12/2015	568	CAT SPECIALTIES	602.55
74242	05/12/2015	3173	CENTER POINT LA	204.86
74243	05/12/2015	600	CERTIFIED UNDER	37.83
74244	05/12/2015	4261	CHAPARRAL LANES	25.00
74245	05/12/2015	634	CHEVRON PRODUCT	203.90

74246	05/12/2015	649	CINTAS CORP #69	664.20
74247	05/12/2015	656	CITRUS VALLEY F	113.09
74248	05/12/2015	737	COOPERATIVE PER	1,067.00
74249	05/12/2015	745	CORONA, MARIO	520.75
74250	05/12/2015	753	COUNTY OF SAN B	116.00
74251	05/12/2015	777	COVINA RENTS	46.50
74252	05/12/2015	4233	DE LA RIVA CONS	93,655.00
74253	05/12/2015	4254	DELIA TACTICAL	600.00
74254	05/12/2015	878	DELTA DENTAL OF	244.04
74255	05/12/2015	3701	DEPARTMENT OF J	343.00
74256	05/12/2015	947	DUNN EDWARDS CO	467.49
74257	05/12/2015	958	E.H. WACHS COMP	295.81
74258	05/12/2015	962	EAST DISTRICT S	138.00
74259	05/12/2015	962	EAST DISTRICT S	8,092.50
74260	05/12/2015	970	EDISON CO	33,429.96
74261	05/12/2015	3911	FACTORY MOTOR P	53.30
74262	05/12/2015	1075	FLEET SERVICES	73.58
74263	05/12/2015	3900	FLORES, RICHARD	250.00
74264	05/12/2015	1162	GAUMER, TREVOR	154.88
74265	05/12/2015	1194	GLOBAL ENVIRONM	500.00
74266	05/12/2015	1204	GOLDEN STATE WA	264.66
74267	05/12/2015	1235	GRAINGER	207.82
74268	05/12/2015	1275	HAAKER EQUIPMEN	444.18
74269	05/12/2015	3251	HANSON INVESTIG	1,272.63
74270	05/12/2015	1364	HOME DEPOT	866.71
74271	05/12/2015	1427	INGLEWOOD, CITY	3,119.48
74272	05/12/2015	1441	INTERSTATE BATT	140.91
74273	05/12/2015	3854	IPC INC.	28,209.82
74274	05/12/2015	1561	KEYSTONE UNIFOR	477.07
74275	05/12/2015	4248	LIZARDTECH	3,115.00
74276	05/12/2015	1857	MCLEAN, JOHN	16.00
74277	05/12/2015	1858	MCMASTER CARR S	200.67
74278	05/12/2015	1867	MEDINA, FRANK	177.36
74279	05/12/2015	1933	MISSION LINEN S	44.14
74280	05/12/2015	2019	MYERS TIRE SUPP	313.78
74281	05/12/2015	3563	NEWEGG INC	992.63
74282	05/12/2015	2091	O REILLY AUTO P	264.32
74283	05/12/2015	2104	OFFICE DEPOT	226.47
74284	05/12/2015	99999	ALMA VICTORIO	26.59
74285	05/12/2015	99999	ANNE FRANCK	90.00
74286	05/12/2015	99999	BRENDA KONOSKE	90.00
74287	05/12/2015	99999	BYRON FISHER	1,554.00
74288	05/12/2015	99999	C WALKER	40.71
74289	05/12/2015	99999	CELESTE PEREZ	84.37

CITY OF COVINA
Check Register
MAY 1-14, 2015

74290	05/12/2015	99999	CLARE OLDHAM	30.00
74291	05/12/2015	99999	EDWARD TSOA	636.22
74292	05/12/2015	99999	ELAINE CRUZ	164.40
74293	05/12/2015	99999	FIVE STAR MASONRY & CON(	2.00
74294	05/12/2015	99999	JENNIFER CASTILLEJO	26.10
74295	05/12/2015	99999	JOHN STRYCULA	78.74
74296	05/12/2015	99999	MARIA HERNANDEZ	117.45
74297	05/12/2015	99999	MARIO ESTAY	141.85
74298	05/12/2015	99999	MARK WECHSLER	52.19
74299	05/12/2015	99999	MARY GRUETTER	56.00
74300	05/12/2015	99999	MAY WU	54.95
74301	05/12/2015	99999	MIGUEL GARCIA-ALCARAZ	90.00
74302	05/12/2015	99999	NANCY ESCOBAR	15.60
74303	05/12/2015	99999	PATRICIA GOMEZ	55.00
74304	05/12/2015	99999	RACHEL A WARREN	143.75
74305	05/12/2015	99999	RACHEL CARLOS ESTRADA	55.00
74306	05/12/2015	99999	RON R SEELEY, HOLLY L SEELI	25.00
74307	05/12/2015	99999	ROSA GUZMAN	34.37
74308	05/12/2015	99999	SANDRA DEATON	54.00
74309	05/12/2015	99999	STEVEN WOODS	48.39
74310	05/12/2015	99999	SUSANA MARQUES	84.37
74311	05/12/2015	99999	SUSIE TEJEDA	25.41
74312	05/12/2015	99999	TOM HOLLAND	97.40
74313	05/12/2015	99999	UC STARS CHEER	300.00
74314	05/12/2015	99999	VICTORIA GARDEA	70.00
74315	05/12/2015	99999	YESENIA CANELA	90.00
74316	05/12/2015	99999	ZOLIMAN MIRANDA	35.00
74317	05/12/2015	2210	PATTON SALES CO	455.62
74318	05/12/2015	4024	PERFORMANCE TRU	1,561.94
74319	05/12/2015	50	PROGREEN BLDG M	1,543.10
74320	05/12/2015	4101	RANCHO JANITORI	115.88
74321	05/12/2015	2403	REGAN, DAN	612.00
74322	05/12/2015	2415	REPUBLIC MASTER	185.73
74323	05/12/2015	2426	REYNOLDS BUICK	70.88
74324	05/12/2015	2510	VOID	0.00
74325	05/12/2015	2537	SAN DIEGO REGIO	525.00
74326	05/12/2015	2635	SHERATON GATEWA	416.05
74327	05/12/2015	2667	SIRSIDYNIX	357.36
74328	05/12/2015	3954	SUN LIFE FINANC	16.96
74329	05/12/2015	2786	SUTHERLAND, KEI	16.00
74330	05/12/2015	2790	SWANK MOTION PI	877.00
74331	05/12/2015	2804	TAG AMS INC	305.00
74332	05/12/2015	3797	TDS/GCR	484.47
74333	05/12/2015	4263	THE FOUR SEASON	1,248.72

CITY OF COVINA
Check Register
MAY 1-14, 2015

74334	05/12/2015	2855	TIME WARNER CAB	557.51
74335	05/12/2015	2877	TOSHIBA BUSINES	74.12
74336	05/12/2015	4107	VALLEY ATHLETIC	542.68
74337	05/12/2015	2999	VERIZON CALIFOR	1,085.29
74338	05/12/2015	3001	VERIZON WIRELES	594.46
74339	05/12/2015	3700	Vinnie's	1,330.00
74340	05/12/2015	4239	WALKER BROTHERS	3,500.00
74341	05/12/2015	3043	WARREN DISTRIBU	332.71
74342	05/12/2015	4257	WE-DO EQUIPMENT	424.45
74343	05/12/2015	3902	WEBSTERS BEE'S	185.00
74344	05/12/2015	3070	WEST COAST ARBO	2,471.90
74345	05/12/2015	4260	WESTGATE HOTEL,	2,913.75
74346	05/12/2015	3134	XEROX CORPORATI	835.85
			subtotal checks	***$715,314.87***
			TOTAL checks/EFTs	**$731,590.29**

STATE OF CALFORNIA)
) ss:
COUNTY OF LOS ANGELES)

I, Debbie Pacheco being first duly sworn, declare that I am the Acting Finance Director of the City of Covina and have read the attached Register(s) of Audited Demands for the City of Covina dated Accounts Payable for May 1-14, 2015; Payroll for 5/06/15 and 5/07/15; and Workers Compensation for 5/07/15; know the contents thereof, and do CERTIFY as to the accuracy of the attached Demands and the availability of funds for their payment pursuant to the government Code Section 37202.

Debbie Pacheco
Acting Finance Director

Subscribed and sworn to before me
this 2nd day of June, 2015

Evelyn Leach, Deputy

SUCCESSOR AGENCY TO THE COVINA REDEVELOPMENT AGENCY AGENDA ITEM COMMENTARY

MEETING DATE June 2, 2015 **ITEM NO.** CC 2

STAFF SOURCE Debbie Pacheco, Acting Finance Director

ITEM TITLE Payment of Demands

STAFF RECOMMENDATION

Approve Payment of Demands in the amount of $60,643.95.

FISCAL IMPACT

Sufficient funding is available and the related costs are included in the FY 14/15 Adopted Budget.

BACKGROUND

Attached is a list of warrants and demands which are being presented for approval and are summarized as follows:

DATE OF DEMANDS		DEMAND NUMBERS	AMOUNT
ACCOUNTS PAYABLE WARRANTS			
May 1 - May 14, 2015		Checks 1175-1180	$54,418.07
PAYROLL			
May 7, 2015	INSURANCE	PAYROLL PAID 5/7/15	$2,536.97
May 7, 2015	PAYROLL	PAYROLL PAID 5/7/15	$3,688.91
VOIDS			
		GRAND TOTAL:	**$60,643.95**

EXHIBITS

A. Accounts Payable Register

Respectfully submitted,

Pacheco

Debbie Pacheco
Acting Finance Director

SUCCESSOR AGENCY TO THE
COVINA REDEVELOPMENT AGENCY
Check Register
MAY 1-14, 2015

Check #	Check Date	Vendor	Name	Amount
1175	05/05/2015	572	CATHOLIC CHARIT	1,000.00
1176	05/05/2015	970	EDISON CO	21.17
1177	05/12/2015	1156	GAS COMPANY, TH	23.73
1178	05/12/2015	1352	HINDERLITER DEL	3,465.00
1179	05/12/2015	2452	RJS FINANCIAL	49,840.00
1180	05/12/2015	2942	UNITED SITE SER	68.17
			subtotal EFT/wires	***$0.00***
			subtotal checks	***$54,418.07***
			TOTAL CHECKS/EFT's	**$54,418.07**

STATE OF CALFORNIA)
) ss:
COUNTY OF LOS ANGELES)

I, Debbie Pacheco being first duly sworn, declare that I am the Acting Finance Director of the City of Covina and have read the attached Register(s) of Audited Demands for the Covina Successor Agency to the Covina Redevelopment Agency dated Accounts Payable for May 1-14, 2015 and Payroll for 5/07/15; know the contents thereof, and do CERTIFY as to the accuracy of the attached Demands and the availability of funds for their payment pursuant to the government Code, Section 37202.

Debbie Pacheco,
Acting Finance Director

Subscribed and sworn to before me
this 2nd day of June, 2015

Evelyn Leach, Deputy

CITY OF COVINA
AGENDA ITEM COMMENTARY

MEETING DATE: June 2, 2015 **ITEM NO. CC 3**

STAFF SOURCE: Amy Hall-McGrade, Parks & Recreation Director
Lisa Evans, Parks & Recreation Manager

ITEM TITLE: Adopt **Resolution No. 15-7352** Amending the City of Covina Parks & Recreation Department's Fiscal Year 2014-2015 Operating Budget.

STAFF RECOMMENDATION
Adopt **Resolution No. 15-7352** amending the City of Covina Parks & Recreation Department's fiscal year 2014-2015 operating budget.

FISCAL IMPACT
There is no General Fund impact. The account numbers requiring amendment are as follows:

2957 3400 48100	$ 2,980
2957 3400 54520	$ 2,980

BACKGROUND
The Mason family and Kitchen family will be sponsoring two benches for Cougar Park in memory of Charles Ray Mason and Ann Josephine McGlade respectively. Both individuals were active volunteers in the community. The entire cost of the benches is being covered by the sponsorships.

EXHIBITS
A. Resolution No. 15-7352

Respectfully submitted,

Amy Hall-McGrade, Director
Parks & Recreation Department

RESOLUTION NO. 15-7352

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF COVINA, CALIFORNIA, TO AMEND THE FISCAL YEAR 2014-2015 PARKS & RECREATION DEPARTMENT'S OPERATING BUDGET.

WHEREAS, the City of Covina is a municipal corporation duly organized and existing pursuant to the Constitution and laws of the State of California ("City"); and

WHEREAS, the budget for the City of Covina for fiscal year commencing July 1, 2014 and ending June 30, 2015 was approved on June 17, 2014; and

WHEREAS, the approved budget is in accordance with all applicable ordinances of the City and all applicable statutes of the State; and

WHEREAS, the reallocation of the appropriations between departmental activities may be made by the City Manager, amendments (increases/decreases) to the Budget shall be by approval and Resolution of the City Council;

WHEREAS, the Mason family and Kitchen family will be sponsoring the purchase of two memorial benches for Cougar Park;

NOW, THEREFORE, BE IT RESOLVED AND ORDERED by the City Council of the City of Covina, as follows:

SECTION 1. Amend the fiscal year 2014-2015 Parks & Recreation Department's operating budget as follows:

2957 3400 48100	$ 2,980
2957 3400 54520	$ 2,980

SECTION 2. The City Clerk shall certify to the adoption of this resolution.

PASSED, APPROVED AND ADOPTED this 2nd day of June 2015.

_____
Mayor

ATTEST:

_____
Evelyn Leach
Interim Chief Deputy City Clerk

Approved as to form:

_____
Legal Counsel

CERTIFICATION

I, Evelyn Leach, Interim Chief Deputy City Clerk of the City of Covina, hereby CERTIFY that Resolution No. 15-7352 was adopted by the Covina City Council at a regular meeting of the City Council held this 2nd day of June 2015, and was approved and passed by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

_____
Evelyn Leach
Interim Chief Deputy City Clerk

CITY OF COVINA
AGENDA ITEM COMMENTARY

MEETING DATE June 2, 2015 **ITEM NO. CC 4**

STAFF SOURCE Debbie Pacheco, Acting Finance Director

ITEM TITLE Approval of request by Valley Development Services, Inc. for exemption from the City's business license tax. The organization is located at 1115 E. Puente St., Covina.

STAFF RECOMMENDATION
Approve Valley Development Services business license tax exemption.

FISCAL IMPACT
Forfeit business license tax of $52 (account: 1010-0000-40500).

BACKGROUND
Nonprofit organizations are exempt from paying the City's business license tax if the organization submits an application for the exemption and they provide proof of their nonprofit status (Covina Municipal Code Sections 5.04.100 through 5.04.140). Upon presentation of the required information, the City Council shall direct the City's Finance Director to issue the business license to the nonprofit organization without charging the normal tax (CMC 5.04.130).

Valley Development Services Inc. is organized under the Nonprofit Public Benefit Corporation Law for public and charitable purposes. The purpose of this organization is to provide humanitarian, charitable and educational services to youth and families.

Valley Development Services Inc. is seeking exemption from the City's business license tax in order to conduct the charitable business of the organization. The organization has met all of the requirements for exemption of the business license tax contained in Sections 5.04.100 through 5.04.140.

EXHIBITS

A. Internal Revenue Tax Exempt Ruling – on file in the Finance Department
B. Bylaws – on file in the Finance Department
C. Articles Of Incorporation – on file in the Finance Department
D. Fee Exempt Business License Application – on file in the Finance Department

Respectfully submitted

Debbie Pacheco, Acting Finance Director
Finance Department

CITY OF COVINA
AGENDA ITEM COMMENTARY

MEETING DATE June 2, 2015 **ITEM NO. CC 5**

STAFF SOURCE Siobhan Foster, Director of Public Works
Vivian Castro, Environmental Services Manager

ITEM TITLE Acceptance of Notice of Completion of Public Works Project No. F-1415: Police Department Heating, Ventilation and Air Conditioning (HVAC) System Upgrade

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STAFF RECOMMENDATION

1) Accept the work performed by ACCO Engineered Systems for the contract amount of $219,514;
2) Authorize the City Clerk to file a Notice of Completion for Public Works Project No. F-1415; and
3) Authorize final payment of $219,514 to ACCO Engineered Systems.

FISCAL IMPACT

Sufficient funding for the total project cost of $219,154 is available in the 2014-15 General Fund (account 1010-1000-5520-F1415). On February 17, 2015, the City Council adopted Resolution No. 15-7317 to amend the Fiscal Year 2014-15 budget to finalize $773,753 of funding for five Energy Efficient Projects including Police Department HVAC System Upgrade. An inter-fund loan from the Water Fund (account 6010-0000-16100) to the General Fund over a period not to exceed five years provided funding for the Police Department HVAC System Upgrade project. Debt service payments will be included in the General Fund (account 1010-8900-56750) beginning in Fiscal Year 2015-16 to repay the inter-fund loan.

BACKGROUND

On December 16, 2014, in furtherance of the City Council strategic goals of fostering innovation, efficiency, and sustainability and enhancing the City's financial well-being, the City Council approved the Energy Efficient Projects list consisting of five projects at various City facilities and authorized the award of an Energy Efficiency Design-Build contract to ACCO Engineered Systems in the amount of $219,514 for the Police Department HVAC System Upgrade. The Police Department HVAC System Upgrade includes replacement of the packaged unit and installation of new energy management control systems that will result in energy and maintenance cost savings over the lifetime of the equipment and offset the cost of debt service. Other Energy Efficient Projects include lighting retrofit projects in the Metrolink Parking Structure and municipal parking lots and of City-owned streetlights throughout the City.

ACCO Engineered Systems has completed all work in substantial conformance with the approved project Plans and Specifications for the Police Department HVAC System Upgrade. Final inspection by City staff finds the work to meet City of Covina standards. Payment is now due and payable.

EXHIBITS

A. Project No. F-1415 Close-out Documents.

Respectfully submitted,

Siobhan Foster/Director of Public Works
Public Works Department

RECORDING REQUESTED BY

City of Covina
125 E College Street
Covina, CA 91723-2199

AND WHEN RECORDED MAIL TO

Name City Clerk - City of Covina
Street Address 125 E College Street
City & State Covina CA 91723-2199

SPACE ABOVE THIS LINE FOR RECORDER'S USE

Notice of Completion

Notice pursuant to Civil Code Section 3093, must be filed within 10 days after completion.
Notice is herby given that:

1. The undersigned is owner or corporate officer of the owner of the interest or estate stated below in the property hereinafter described.
2. The full name of the owner is the City of Covina.
3. The full address of the owner is 125 E College Street, Covina CA 91723.
4. The nature of the interest or estate of the owner is in fee.
5. The full names and full addresses of all persons, if any, who hold title with the undersigned as joint tenants or as tenants in common are:

   Names Addresses
   NONE

6. The full names of the predecessors in interest of the undersigned, if the property was transferred subsequent to the commencement of the work of improvement herein referred to:

   Names Addresses
   NONE

7. A work of improvement on the property hereinafter described was completed on 3/6/2015
   The work done was: F-1415: Police Department HVAC System Upgrade
8. The name of the contractor, if any, for such work of improvement was
   ACCO Engineered Systems
9. The property on which said work of improvement was completed is in the City of Covina, County of Los Angeles, State of California, and is described as follows:
   City of Covina Police Department
10. The Street address of said property is 444 N Citrus Avenue, Covina, CA 91723
    (If no street address has been officially assigned, insert "none".)

Dated _____

Siobhan Foster, Director of Public Works

Signature of owner named in paragraph 2 _____ (Seal)

Executed on _____

By Deputy City Clerk

Exhibit A, 5 Pages

CITY OF COVINA

125 East College Street ● Covina, California 91723-2199

Public Works Department
Environmental Services Section
626.384.5480/626.384.5479 Fax

FINAL INSPECTION

The contract for Project No. F-1415: Upgrade of the Police Department HVAC System has been completed according to approved plans and specifications. Final inspection has been made and the work is satisfactory.

Certified by: Vivian Castro
Vivian Castro

Title Environmental Services Manager

Date: 5/19/15

cc: Public Works Director
Chief of Police
File

The City of Covina provides responsive municipal services and manages public resources to enhance the quality of life for our community.

Appendix D – Construction Punch List

[Sample Form]

CONSTRUCTION PUNCHLIST

☐ Lighting ☒ HVAC/Controls ☐ Other _____
Contractor: _____
Task Order #: _____
Facility Name: [Category] **Covina Police Dept**
Facility Address: **444 N. Citrus Ave., Covina, CA**
Note: Refer to the line-by-line construction record by reference number when available.

Item #	Description of Punch List Item	Approximate Value	Date Completed
1	Install (2) Electrical Service Disconnects		4/2/2015
2	Install Unit Tags on New Units		4/2/2015
3	Old Controls Removed from Control Cabinets		4/2/2015
4	Individual Zone Schedules Programmed per Specs		4/2/2015
5	Flow sensor replaced on VAV-2, Zone 7		4/2/2015

Approximate Total Value: _____

☒ There are no Punch list Items at this time.

Punch List Created by: Tag Greaves — Contractor Representative

March 20, 2015 — Date

Appendix E – Notice of Construction Completion and Warranty Period

To: Agency Representative

From: Acco Engineered Systems
(Contractor's Name and Company)

Task Order #: _____

Project Name: Covina Police Dept. - HVAC Upgrade

1) Date of final inspection: March 20, 2015

2) Date of construction completion: March 6, 2015

3) Warranty period begins: March 23, 2015 Ends: March 23, 2016

Warranty Length: One Year

4) Additional Warranties, if any:

Warranty Type: _____

Warranty Period begins: _____ Ends: _____

Warranty Length: _____

5) Have as-builts and other Project documents been submitted?

X Yes ____ No ____ Not Applicable

Contractor Signature Date: May 8, 2015

Agency Representative Signature Date: 5/12/15

(Contractor: After completion of the project, send signed form to Agency Representative to complete Performance Evaluation on back page. Agency Representative will complete, sign and return to The Energy Network Project Manager. This form must be completed prior to final invoice and payment.)

PERFORMANCE EVALUATION

Agency Representative: After completion of the performance evaluation below, send signed form to The Energy Network Project Manager. This form must be completed prior to approval of the final invoice and payment.

Contractor Evaluation	Value: 0-Low; 4-High	Note:
Quality of Work:	4	
Timely Performance:	4	
Working Relationship with Agency and facility Staff:	4	
Competency to Perform Work/Service:	4	
Sensitivity to Citizen Contact:	4	
Understanding of Project:	4	
Problems Encountered After Project Completed:	3	
Responsiveness to Problems During Project:	4	

Raymond Rowe
Agency Representative Signature

Date: 5/12/15

The Energy Network Project Manager

Date: _____

CITY OF COVINA
AGENDA ITEM COMMENTARY

MEETING DATE June 2, 2015 **ITEM NO. CC 6**

STAFF SOURCE Siobhan Foster, Director of Public Works
Vivian Castro, Environmental Services Manager

ITEM TITLE Authorization to Execute Memorandum of Understanding (MOU) Between Los Angeles County Flood Control District (LACFCD) and Cities of Baldwin Park, Covina, Glendora, Industry, La Puente, and South El Monte for Implementation of the Coordinated Integrated Monitoring Program (CIMP) for Upper San Gabriel River Watershed

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STAFF RECOMMENDATION

1) Authorize the City Manager to execute MOU between LACFCD and Cities of Baldwin Park, Covina, Glendora, Industry, La Puente, and South El Monte for Implementation of the CIMP for Upper San Gabriel River Watershed; and
2) Authorize the Department of Public Works to submit payment of $21,634.28 for FY 2014-15 upon receipt of invoice.

FISCAL IMPACT

The MOU covers the cost of implementing the CIMP through FY 2018-19 and includes the following payment schedule for the City of Covina:

Invoice Date	Amount ($)
June 2015 *(FY 2014-15)*	21,634.28
July 2015 *(FY 2015-16)*	63,544.74
July 2016 *(FY 2016-17)*	57,687.77
July 2017 *(FY 2017-18)*	66,288.09
July 2018 *(FY 2018-19)*	56,641.43
Subtotal – Invoice Amount	**265,796.31**
Contingency (10%)	26,579.63
Total	**292,375.94**

The June 2015 invoice amount of $21,634.28 is included in the FY 2014-15 Department of Public Works budget (account 6200-5550-51800). The proposed FY 2015-16 Department of Public Works budget (account 6200-5550-51800) includes $63,544.74 for the July 2015 invoice amount. Subsequent annual invoice costs, including the contingency, if applicable, will be requested as part of the annual City budget process.

While Environmental Services collects various fees for stormwater-related services provided by the City (development plan reviews, construction site inspections, facilities inspections, etc.) that

historically covered the costs of implementing the prior (2001) Municipal Separate Storm Sewer System (MS4) Permit, for the 2012 MS4 Permit those fees are insufficient to cover the full cost of implementing the Upper San Gabriel River Enhanced Watershed Management Program (EWMP) and not applicable to cover the costs of the CIMP. There are no Environmental Services fee revenues that can be used to cover the cost implementing the CIMP. Beginning with the Fiscal Year 2015-16 budget, the General Fund will be required to subsidize the City's stormwater compliance programs. As a result, expenses associated with this MOU will be borne by the General Fund unless additional funding sources can be identified.

BACKGROUND

The Los Angeles County Flood Control District, the County of Los Angeles, and the 84 incorporated cities within Los Angeles County (collectively referred to as Permittees), including Covina, are regulated by the Federal Clean Water Act under a MS4 Permit (Order No. R4-2012-0175; National Pollutant Discharge Elimination System [NPDES] Permit No. CAS004001) for the discharge of urban runoff to waters of the United States. The purpose of the MS4 Permit is to ensure that water bodies in the Los Angeles region meet the standards established to protect the specific beneficial uses of those water bodies, such as habitat, recreation, groundwater recharge, etc.

The Permit was adopted by the California Water Quality Control Board, Los Angeles Region (Regional Board) on November 8, 2012, and became effective December 28, 2012.

The MS4 Permit gives Permittees the option of implementing a collaborative, watershed-based approach to Permit compliance through development of a Watershed Management Program (WMP) or an Enhanced Watershed Management Program (EWMP). While a handful of Permittees chose to be subject to the "baseline" permit and are now in violation of the MS4 Permit if water quality monitoring results show pollutant exceedances, 33 WMP and EWMP groups were formed.

On September 3, 2013 the Covina City Council authorized the City to enter into an MOU in an amount not to exceed $89,436.06 for the collaborative development of an EWMP and a CIMP for portions of the San Gabriel River Watershed, which are required components of the Monitoring and Reporting Program (MRP) of the MS4 Permit. The MOU authorized the City's participation in the Upper San Gabriel River (USGR) EWMP Group, comprised of the County of Los Angeles, LACFCD, and the Cities of Baldwin Park, Covina, Glendora, Industry, and La Puente (Group Members). Group Members started meeting in early 2013 to establish the EWMP Group and collaboratively develop an EWMP and a CIMP for the Upper San Gabriel River Watershed.

Since that time, staff from the EWMP Group jurisdictions have met at least monthly with the EWMP and CIMP consultants to gather and assess data, discuss statistical modeling and projections, evaluate alternatives and determine appropriate, cost-effective approaches for the EWMP and CIMP. Two stakeholder workshops were held to solicit input on the EWMP. Elected officials, chambers of commerce, environmental groups, school districts and community groups, among others, were invited. On March 4, 2015, an executive briefing was held for elected officials, city managers, and staff.

While the EWMP specifies the actions that the EWMP Group will take to comply with the water quality requirements of the MS4 Permit, the CIMP provides details about the how the various monitoring requirements of the MS4 Permit are to be conducted and reported, including:

- Receiving water monitoring
- Total Maximum Daily Load (TMDL) receiving water monitoring
- Stormwater outfall monitoring
- Non-stormwater outfall screening and monitoring
- Frequency and scheduling of monitoring
- Sampling procedures

The CIMP is meant to inform Covina and the other individual EWMP Group jurisdictions individually, and the Group as a whole, whether the EWMP as formulated and being implemented, is working to ensure that it will meet the water quality requirements of the MS4 Permit. If monitoring results show that the water quality objectives are not being met, then the EWMP has to be reevaluated quantitatively and revised so that the water quality objectives are met by the required interim and final deadlines.

The CIMP is the EWMP Group's approach to an effective, efficient and well-thought-out monitoring program that covers the majority of the monitoring requirements of the MS4 Permit for the City of Covina (the Dominquez Channel and Harbor Toxic TMDL monitoring requirements are being addressed under a separate MOU for City Council consideration on June 2, 2015). Unlike other watersheds in the Los Angeles region, existing water quality data in the San Gabriel River Watershed Management Area is sparse. Like most other cities in the watershed, Covina has not previously conducted monitoring of stormwater runoff but has relied on data from the LACFCD. The CIMP provides for continued use of LACFCD data and savings through coordination and economies of scale.

In developing the CIMP, the EWMP Group worked closely with other watershed groups and reached out to individual cities to ensure the CIMP monitoring programs are coordinated and integrated across the watershed (Exhibit B). The collaborating groups and individual cities are all each contributing data and/or cost sharing with all groups in the watershed, avoiding duplicative monitoring efforts. As a result of the unprecedented collaboration among the groups, the CIMPs together provide a comprehensive and consistent long-term monitoring plan for the watershed.

The CIMP includes the details of the following programs:

1) **Receiving Water Monitoring** – Monitoring in the river and waterbodies to assess whether water quality objectives (WQOs) are being met.

2) **TMDL Monitoring** – TMDLs are a numeric calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that load among the various sources of that pollutant. TMDL monitoring is conducted to evaluate attainment of or progress in attaining the waste load allocations (WLAs).

3) **Stormwater Outfall Monitoring** – During a precipitation event, monitoring of runoff from each EWMP Group member's storm drain system "outfall" into water bodies of the Upper San Gabriel River to determine whether the jurisdiction is causing or contributing to water quality issues observed in the receiving water.

4) **Non-Stormwater Outfall Screening and Monitoring** – Monitoring of runoff during dry weather to determine whether non-stormwater discharges are potentially impacting the receiving water and whether significant non-stormwater discharges are allowable or

prohibited in the MS Permit.

5) **Assessment of Low Impact Development (LID) Effectiveness** – Use of monitoring data to assess the effectiveness of the LID requirements for land development and to fulfill reporting requirements.

6) **Regional Study Participation** – LACFCD will continue to participate in the Southern California Stormwater Monitoring Coalition (SMC) on behalf of the group.

In addition to the direct costs of implementing the monitoring program as outlined in the CIMP and the consultant scope of work (Exhibit C), the MOU provides for five percent of the total cost of the MOU to be paid to Los Angeles County for contract administration and a contingency of 10 percent of the total invoice amount. The contingency will not be invoiced unless there is a need for its expenditure as agreed to by all parties.

The EWMP Group submitted a Draft CIMP in June 2014, and revised the CIMP (Exhibit D) in May 2015 to address comments from the Los Angeles Regional Water Quality Control Board (Regional Board), dated February 6, 2015. Subsequently, the City of South El Monte indicated in a letter to the Regional Board, dated February 26, 2015 of its intention to join the CIMP. As a result, the EWMP Group agreed to include South El Monte in the Revised CIMP.

Implementation of the CIMP, as noted in the implementation schedule, is required to commence within 90 days of the Regional Boards approval of the document. The EWMP is in the process of being finalized and will be brought to the City Council for consideration at the June 16, 2015 meeting. It must be submitted to the Regional Board by June 28, 2015.

EXHIBITS

A. Upper San Gabriel River Watershed Group (USGR) Coordinated Integrated Monitoring Program (CIMP) MOU
B. USGR CIMP Collaboration Map and Matrix
C. USGR CIMP Consultant Scope of Work
D. USGR Revised CIMP, Submitted to Regional Board May 6, 2015
E. USGR Revised CIMP Attachments [on file in the Office of the City Clerk]

Respectfully submitted,

Siobhan Foster/Director of Public Works
Public Works Department

MEMORANDUM OF UNDERSTANDING

BETWEEN THE COUNTY OF LOS ANGELES, THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT, AND THE CITIES OF BALDWIN PARK, COVINA, GLENDORA, INDUSTRY, LA PUENTE, AND SOUTH EL MONTE

REGARDING THE ADMINISTRATION AND COST SHARING FOR IMPLEMENTING THE COORDINATED INTEGRATED MONITORING PROGRAM FOR THE UPPER SAN GABRIEL RIVER WATERSHED

This Memorandum of Understanding (MOU), made and entered into as of the date of the last signature set forth below by and between the COUNTY OF LOS ANGELES (COUNTY), a political subdivision of the State of California, the LOS ANGELES COUNTY FLOOD CONTROL DISTRICT (LACFCD), a body corporate and politic, and the CITIES OF BALDWIN PARK, COVINA, GLENDORA, INDUSTRY, LA PUENTE, and SOUTH EL MONTE, municipal corporations. Collectively, these entities shall be known herein as PARTIES or individually as PARTY.

WITNESSETH

WHEREAS, the Regional Water Quality Control Board, Los Angeles Region (REGIONAL BOARD) adopted National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System Permit Order No. R4-2012-0175 (MS4 Permit); and

WHEREAS, the MS4 Permit became effective on December 28, 2012, and requires that the COUNTY, the LACFCD, and 84 of the 88 cities (excluding Avalon, Long Beach, Palmdale, and Lancaster) within the Los Angeles County comply with the prescribed elements of the MS4 Permit; and

WHEREAS, the MS4 Permit identified the PARTIES as MS4 permittees that are responsible for compliance with the MS4 Permit requirements pertaining to the San Gabriel River Watershed Management Area; and

WHEREAS, the PARTIES entered into a memorandum of understanding on October 24, 2013 to collaborate in the development of a Coordinated Integrated Monitoring Program (CIMP) for the Upper San Gabriel River Watershed, with the exception of South El Monte; and

WHEREAS, the CIMP was submitted to the REGIONAL BOARD by the PARTIES on June 30, 2014, with the exception of South El Monte, and is anticipated to be approved by the REGIONAL BOARD; and

WHEREAS, South El Monte indicated its intention to join the CIMP in a letter to the REGIONAL BOARD, dated February 26, 2015; and

WHEREAS, the PARTIES agreed to include South El Monte in the Revised CIMP, which was submitted to the Regional Board on May 6, 2015; and

WHEREAS, the PARTIES collaboratively prepared a final Scope of Work to obtain a consultant (CONSULTANT) to assist the PARTIES with complying with certain elements of the MS4 Permit, as specified in the Scope of Work, which is incorporated into this MOU by reference; and

WHEREAS, the PARTIES propose engaging a CONSULTANT as set forth in Section 6(a), below, to implement the CIMP, prepare CIMP Annual Reports, and prepare any necessary revisions to the CIMP in compliance with the MS4 Permit; and

WHEREAS, the PARTIES have determined that hiring the CONSULTANT to implement the CIMP will be beneficial to the PARTIES, and they have agreed to pay the PARTIES' fair share of the cost to COUNTY, who will act on behalf of the PARTIES to contract with the CONSULTANT for the implementation of the CIMP; and

WHEREAS, the PARTIES have agreed to cooperatively share and fully fund the estimated costs of implementing the CIMP, as shown in Exhibit A; based on the cost allocation formula contained in Exhibit A of this MOU; and

WHEREAS, the PARTIES have agreed that the total five-year cost for implementing the CIMP shall not exceed $$4,574,552.28, which includes a 5 percent contract administration cost and a 10 percent contingency; and

WHEREAS, the PARTIES agree that each shall assume full and independent responsibility for ensuring its own compliance with the MS4 Permit despite the collaborative approach of the MOU.

NOW, THEREFORE, in consideration of the mutual benefits to be derived by the PARTIES, and of the promises contained in this MOU, the PARTIES agree as follows:

Section 1. Recitals. The recitals set forth above are incorporated into this MOU.

Section 2. Purpose. The purpose of this MOU is to cooperatively fund the implementation of the CIMP and to coordinate the payment and performance of the monitoring services.

Section 3. Cooperation. The PARTIES shall fully cooperate with one another to attain the purposes of this MOU.

Section 4. Voluntary. This MOU is voluntarily entered into for the implementation of the CIMP.

Section 5. Term. This MOU shall become effective on the last date of execution by a PARTY (EFFECTIVE DATE) or June 30, 2015, whichever comes first, and shall remain

in effect until (1) COUNTY has provided the PARTIES with an accounting as set forth in Section 6(f) and the PARTIES have paid all outstanding invoices, or (2) December 31, 2019, whichever comes first.

Section 6. COUNTY AGREES:

a. Consultant Services. To select a CONSULTANT from COUNTY's as-needed watershed engineering and water quality support consultant services contractors for implementation of the CIMP in accordance with the Scope of Work, and any subsequent changes to the CIMP as agreed upon by the PARTIES and approved by the REGIONAL BOARD. COUNTY will be compensated for the administration of the consultant contract at a rate of 5 percent of each PARTY'S contract cost as described in Exhibit A. COUNTY will comply with all procurement requirements applicable to said selection.

b. Invoice. To invoice the PARTIES in amounts not exceeding the invoice amounts shown in Table 5 of Exhibit A. The annual payments for the period of July 1 through June 30 will be invoiced in July of that year, except for the first invoice, which will be issued upon the execution of this MOU by all PARTIES or in June 2015, whichever comes first. At the end of each fiscal year, any unused funds will be rolled over and used towards future years of CIMP implementation, and the outstanding invoice amounts set forth in Table 5 of Exhibit A for future years will be reduced accordingly.

c. Expenditure. To utilize the funds deposited by the PARTIES only for the administration of the consultant contract and the implementation of the CIMP. COUNTY will provide an accounting of funds expended and remaining at the end of each fiscal year.

d. Contingency. COUNTY will notify the PARTIES if actual expenditures are anticipated to exceed the cost estimates contained in Table 1 of Exhibit A and obtain written approval of such expenditures from all PARTIES. Upon approval, the PARTIES agree to reimburse COUNTY for their proportional share of these additional expenditures at an amount not to exceed 10 percent of the original cost estimate as shown in Table 5 of Exhibit A. This 10 percent contingency will not be invoiced, unless actual expenditures exceed the original cost estimate. Expenditures that exceed the 10 percent contingency will require an amendment to this MOU.

e. Report. To submit reports to the REGIONAL BOARD as described in the CIMP and distribute copies of the reports to the PARTIES prior to submittal to the REGIONAL BOARD for review and comment. COUNTY will provide the PARTIES with an electronic copy of the completed CIMP Annual Report within 7 business days after receipt from the CONSULTANT. In addition, COUNTY will submit to the PARTIES the data used to prepare the reports. No report shall be submitted to the REGIONAL BOARD unless and until it has been approved, in

writing, for submittal by all PARTIES, excepting a PARTY or PARTIES whose involvement in this MOU has been terminated or who fails to respond to requests for approval.

f. Termination. To provide an accounting upon termination of this MOU. At the completion of the accounting, COUNTY shall return any unused portion of all funds deposited with COUNTY in accordance with the cost allocation formula set forth in Exhibit A.

g. Permit. To work with the CONSULTANT to obtain all necessary permits for installation of permanent infrastructure or modifications to monitoring sites, and access within storm drains, channels, catch basins, and similar properties (FACILITIES) during monitoring events and maintenance.

Section 7. The LACFCD AGREES:

a. Mass Emission Stations Monitoring. To conduct monitoring at the existing mass emission stations owned and operated by the LACFCD in accordance with the CIMP, but limited to water column chemistry and aquatic toxicity. The LACFCD will conduct monitoring for the first two dry weather events and three wet weather events at no cost to the PARTIES or their CONSULTANTS.

b. Additional Monitoring at LACFCD Mass Emission Stations. To coordinate with COUNTY for any additional monitoring required by the CIMP at its existing mass emission stations beyond two dry weather events and three wet weather events. The actual cost of such additional monitoring, not to exceed $6,000 per additional event, will be deducted from LACFCD's contribution.

c. Monitoring Results. To provide monitoring results for the CONSULTANT to conduct analyses and include in all required CIMP reporting.

d. Access. To grant access to the PARTIES and the CONSULTANT to LACFCD's FACILITIES, to achieve the purposes of this MOU, provided the PARTIES and their CONSULTANTS obtain a permit and provide written notice 72 hours in advance of entry to LACFCD's FACILITIES. Access permits will be issued by the LACFCD at no cost to the PARTIES or their CONSULTANTS. Permits for construction or installation of structures in LACFCD right of way will incur fees to cover the cost of review, inspection, etc., by LACFCD.

Section 8. THE PARTIES FURTHER AGREE:

a. Payment. To fund the cost of the implementation of the CIMP and to pay COUNTY for their proportional share of the estimated cost for the implementation of the CIMP and contract administration not exceeding the invoice amounts as shown in Table 5 of Exhibit A, within sixty (60) days of receipt of the invoice from COUNTY. The cost estimates presented in Exhibit A have been agreed upon by

the PARTIES and are subject to changes in the CIMP pursuant to new REGIONAL BOARD requirements and/or unforeseen challenges in the field. Any such changes proposed to the PARTIES' proportional share are subject to funding appropriation and will require written approval of the PARTIES as explained in section 6(d).

b. Documentation. To make a good faith effort to cooperate with one another to achieve the purposes of this MOU by providing all requested information and documentation in their possession and available for release to the CONSULTANT that is deemed necessary by the PARTIES to implement the CIMP.

c. Access. Each PARTY will allow reasonable access and entry to the CONSULTANT, on an as needed basis during the term of this MOU, to the PARTY'S FACILITIES to achieve the purposes of this MOU, provided, however, that prior to entering any of the PARTY'S FACILITIES, the CONSULTANT shall obtain all necessary permits and execute a Right-of-Entry Agreement and provide written notice 72 hours in advance of entry from the applicable PARTY.

d. Permit. Each PARTY will work with the CONSULTANT to obtain all necessary permits for installation of permanent infrastructure or modifications to stormwater monitoring sites within each PARTY'S jurisdiction.

e. Additional Participants. The PARTIES agree that if any other entity decides to cost share any element of the CIMP, COUNTY will enter into a separate MOU with that entity and will reduce the PARTIES' future invoice amount(s) based on the cost share formula contained in Table 3 of Exhibit A of this MOU.

f. Additional Studies. The PARTIES agree that additional watershed-wide special studies, monitoring with other watershed groups, conducting necessary special studies, preparing grant applications, and/or conducting other collaborative activities for the purpose of complying with the MS4 Permit may be funded by the PARTIES subject to the terms of this MOU, provided that there are available excess contract funds or contingency funds available to fund these activities. Prior to the performance of any such activities, all PARTIES must provide written approval of the activities and a revised Exhibit A showing which PARTIES will be funding the activities and in what amounts.

Section 9. Indemnification

a. Each PARTY shall indemnify, defend, and hold harmless each other PARTY, including its special districts, elected and appointed officers, employees, agents, attorneys, and designated volunteers from and against any and all liability, including, but not limited to demands, claims, actions, fees, costs, and expenses (including reasonable attorney's and expert witness fees), arising from or connected with the respective acts of each PARTY arising from or related to this

MOU; provided, however, that no PARTY shall indemnify another PARTY for that PARTY'S own negligence or willful misconduct.

b. In light of the provisions of Section 895.2 of the Government Code of the State of California imposing certain tort liability jointly upon public entities solely by reason of such entities being parties to an agreement (as defined in Section 895 of said Code), each of the PARTIES hereto, pursuant to the authorization contained in Section 895.4 and 895.6 of said Code, shall assume the full liability imposed upon it or any of its officers, agents, or employees, by law for injury caused by any act or omission occurring in the performance of this MOU to the same extent such liability would be imposed in the absence of Section 895.2 of said Code. To achieve the above stated purpose, each PARTY indemnifies, defends, and holds harmless each other PARTY for any liability, cost, or expense that may be imposed upon such other PARTY solely by virtue of said Section 895.2. The provisions of Section 2778 of the California Civil Code are made a part hereof as if incorporated herein.

Section 10. Termination and Withdrawal

a. This MOU may be terminated upon the express written agreement of all PARTIES. If this MOU is terminated, then all PARTIES must agree on the equitable redistribution of remaining funds deposited, if there are any, or payment of invoices due at the time of termination. Completed work shall be owned by the PARTY or PARTIES who fund the completion of such work. Rights to uncompleted work by the CONSULTANT still under contract will be held by the PARTY or PARTIES who fund the completion of such work.

b. If a PARTY fails to substantially comply with any of the terms or conditions of this MOU, then that PARTY shall forfeit its rights to work completed through this MOU, but no such forfeiture shall occur unless and until the defaulting PARTY has first been given notice of its default and a reasonable opportunity to cure the alleged default.

c. COUNTY will notify all PARTIES in writing of any PARTY failing to cure an alleged default in compliance with the terms or conditions of this MOU. The non-delinquent PARTIES will determine the next course of action. The remaining cost will be distributed based on the existing cost allocation formula in Exhibit A. If the increase is more than the 10 percent contingency, an amendment to this MOU must be executed to reflect the change in the PARTIES' cost share.

d. If a PARTY wishes to withdraw from this MOU for any reason, that PARTY must give the other PARTIES and the REGIONAL BOARD prior written notice thereof. The withdrawing PARTY shall be responsible for its share of the CIMP implementation cost through the end of the current monitoring year (July 1 through June 30), including costs for reporting of data and results. The effective date of withdrawal shall be the 6th day after COUNTY receives written notice of

the PARTY'S intent to withdraw. Should any PARTY withdraw from this MOU, the remaining PARTIES' cost share allocation shall be adjusted in accordance with the cost allocation formula in Exhibit A.

Section 11. General Provisions

a. Notices. Any notices, bills, invoices, or reports relating to this MOU, and any request, demand, statement, or other communication required or permitted hereunder shall be in writing and shall be delivered to the representatives of the PARTIES at the addresses set forth in Exhibit B attached hereto and incorporated herein by reference. The PARTIES shall promptly notify each other of any change of contact information, including personnel changes, provided in Exhibit B. Written notice shall include notice delivered via e-mail or fax. A notice shall be deemed to have been received on (a) the date of delivery, if delivered by hand during regular business hours, or by confirmed facsimile or by e-mail; or (b) on the third (3rd) business day following mailing by registered or certified mail (return receipt requested) to the addresses set forth in Exhibit B.

b. Administration. For the purposes of this MOU, the PARTIES hereby designate as their respective PARTY representatives the persons named in Exhibit B. The designated PARTY representatives, or their respective designees, shall administer the terms and conditions of this MOU on behalf of their respective PARTY. Each of the persons signing below on behalf of a PARTY represents and warrants that he or she is authorized to sign this MOU on behalf of such PARTY.

e. Relationship of the PARTIES. The PARTIES are, and shall at all times remain as to each other, wholly independent entities. No PARTY to this MOU shall have power to incur any debt, obligation, or liability on behalf of any other PARTY unless expressly provided to the contrary by this MOU. No employee, agent, or officer of a PARTY shall be deemed for any purpose whatsoever to be an agent, employee, or officer of another PARTY.

c. Binding Effect. This MOU shall be binding upon, and shall be to the benefit of the respective successors, heirs, and assigns of each PARTY; provided, however, no PARTY may assign its respective rights or obligations under this MOU without prior written consent of the other PARTIES.

d. Amendment. The terms and provisions of this MOU may not be amended, modified, or waived, except by an instrument in writing signed by all non-delinquent PARTIES. For purposes of this MOU, a PARTY shall be considered delinquent if that PARTY fails to timely pay an invoice as required by Section 8(a) or withdraws pursuant to Section 10(d).

e. Law to Govern. This MOU is governed by, interpreted under, and construed and enforced in accordance with the laws of the State of California.

f. Severability. If any provision of this MOU shall be determined by any court to be invalid, illegal, or unenforceable to any extent, then the remainder of this MOU shall not be affected, and this MOU shall be construed as if the invalid, illegal, or unenforceable provision had never been contained in this MOU.

g. Entire Agreement. This MOU constitutes the entire agreement of the PARTIES with respect to the subject matter hereof.

h. Waiver. Waiver by any PARTY to this MOU of any term, condition, or covenant of this MOU shall not constitute a waiver of any other term, condition, or covenant. Waiver by any PARTY to any breach of the provisions of this MOU shall not constitute a waiver of any other provision, nor a waiver of any subsequent breach or violation of any provision of this MOU.

i. Counterparts. This MOU may be executed in any number of counterparts, each of which shall be an original, but all of which taken together shall constitute one and the same instrument, provided, however, that such counterparts shall have been delivered to all PARTIES to this MOU.

j. All PARTIES have been represented by counsel in the preparation and negotiation of this MOU. Accordingly, this MOU shall be construed according to its fair language. Any ambiguities shall be resolved in a collaborative manner by the PARTIES and shall be rectified by amending this MOU as described in section 11(e).

IN WITNESS WHEREOF, the PARTIES hereto have caused this MOU to be executed by their duly authorized representatives and affixed as of the date of signature of the PARTIES:

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COUNTY OF LOS ANGELES

By _____ _____
GAIL FARBER, Director of Public Works Date

APPROVED AS TO FORM:

MARK J. SALADINO
County Counsel

By _____ _____
Deputy Date

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

By _____ _____
GAIL FARBER, Chief Engineer Date

APPROVED AS TO FORM:

MARK J. SALADINO
County Counsel

By _____ _____
Deputy Date

CITY OF BALDWIN PARK

By _____ _____
Shannon Yauchzee, P.E. Date
Chief Executive Officer

APPROVED AS TO CONTENT:

By _____
Daniel Wall, P.E.
Public Works Director/City Engineer

APPROVED AS TO FORM:

By _____
Robert N. Tafoya, Esq.
City Attorney

CITY OF COVINA

Name: _____

Title: _____

_____
Date

APPROVED AS TO FORM:

Name: _____

Title: _____

CITY OF GLENDORA

By _____ _____
Chris Jeffers Date
City Manager

APPROVED AS TO CONTENT:

By _____
David A. Davies
Public Works Director

APPROVED AS TO FORM:

By _____
D. Wayne Leech
City Attorney

CITY OF INDUSTRY

By _____
Kevin Radecki
City Manager

_____
Date

APPROVED AS TO FORM:

By _____
Michelle Vadon
City Attorney

CITY OF LA PUENTE

By _____ _____
David Carmany Date
City Manager

APPROVED AS TO FORM:

By _____
James M. Casso
City Attorney

CITY OF SOUTH EL MONTE

By _____ _____
Anthony Ybarra Date
City Manager

APPROVED AS TO FORM:

By _____
Quinn Barrow
City Attorney

EXHIBIT A

Upper San Gabriel River Watershed
Funding Contributions for CIMP Implementation

Table 1. Contract Cost

Deliverable	Estimated Cost
Receiving Water Monitoring	$1,313,573.50
Stormwater Monitoring	$1,048,955.50
Non-Stormwater Screening and Monitoring	$1,106,943.00
Reporting, Meetings, and Project Management	$609,536.00
Total Contract	$4,079,008.00

Table 2. LACFCD's Contribution

Item	Estimated Cost
LACFCD's Five-Percent Cost	$203,950.40
Cost to LACFCD for Conducting Four Additional Metals Sampling at San Gabriel River Mass Emission	-$24,000.00
LACFCD's Contribution	$179,950.40

Table 3. Remaining Contract Cost

Item	Estimated Cost
Contract Cost	$4,079,008.00
LACFCD's Contribution	-$179,950.40
Remaining Contract	$3,899,057.60
Additional Participants with Executed MOU with COUNTY	-$0.00
Remaining Contract	$3,899,057.60

Table 4. Cost Allocation Formula

Party	Acres	Percent of Area	Allocated Cost	Contract Administration (5 percent)	Estimated Cost
COUNTY	40,812	59.1	$2,305,539.54	--	$2,305,539.54
City of Baldwin Park	4,335	6.3	$244,891.55	$12,244.58	$257,136.13
City of Covina	4,481	6.5	$253,139.34	$12,656.97	$265,796.31
City of Glendora	9,307	13.5	$525,768.31	$26,288.42	$552,056.73
City of Industry	7,647	11.1	$431,992.08	$21,599.60	$453,591.68
City of La Puente	2,207	3.2	$124,677.20	$6,233.86	$130,911.06
City of South El Monte	231	0.3	$13,049.58	$652,48	$13,702.06
Total	69,020	100.0	$3,899,057.60	$79,675.91	$3,978,733.51

EXHIBIT A

Upper San Gabriel River Watershed
Funding Contributions for CIMP Implementation

Table 5. Invoicing Schedule

Invoice Date	June 2015 (FY 14-15)	July 2015 (FY 15-16)	July 2016 (FY 16-17)	July 2017 (FY 17-18)	July 2018 (FY 18-19)	Total Invoice Amount	Contingency (10%)[1]	Total Cost Including Contingency
LACFCD	$16,703.20	$42,745.25	$38,223.25	$44,863.30	$37,415.40	$179,950.40	$17,995.04	$197,945.44
COUNTY	$187,657.62	$551,192.46	$500,388.56	$574,988.39	$491,312.50	$2,305,539.53	$230,553.95	$2,536,093.48
City of Baldwin Park	$20,929.40	$61,474.33	$55,808.18	$64,128.28	$54,795.93	$257,136.12	$25,713.61	$282,849.73
City of Covina	$21,634.28	$63,544.74	$57,687.77	$66,288.09	$56,641.43	$265,796.31	$26,579.63	$292,375.94
City of Glendora	$44,934.24	$131,981.91	$119,817.02	$137,679.80	$117,643.77	$552,056.74	$55,205.67	$607.262.41
City of Industry	$36,919.75	$108,441.56	$98,446.41	$113,123.18	$96,660.79	$453,591.69	$45,359.17	$498,950.86
City of La Puente	$10,655.40	$31,297.31	$28,412.61	$32,648.47	$27,897.26	$130,911.05	$13,091.11	$144,002.16
City of South El Monte	$1,115.27	$3,275.79	$2,973.86	$3,417.21	$2,919.92	$13,702.05	$1,370.21	$15,072.26
Total	$340,549.16	$993,953.35	$901,757.66	$1,037,136.72	$885,287.00	$4,158,683.89	$415,868.39	$4,574,552.28

[1] Contingency is 10 percent of the total invoice amount. Contingency will not be invoiced unless there is a need for its expenditure as agreed by all PARTIES.

EXHIBIT B

Upper San Gabriel River Watershed
Responsible Agency Representatives

1. County of Los Angeles
   Department of Public Works
   Watershed Management Division, 11th Floor
   900 South Fremont Avenue
   Alhambra, CA 91803-1331
   Paul Alva, Assistant Division Head
   E-mail: palva@dpw.lacounty.gov
   Phone: (626) 458-4325

2. Los Angeles County Flood Control District
   Department of Public Works
   Watershed Management Division, 11th Floor
   900 South Fremont Avenue
   Alhambra, CA 91803-1331
   Terri Grant, Assistant Division Head
   E-mail: tgrant@dpw.lacounty.gov
   Phone: (626) 458-4309

3. City of Baldwin Park
   14403 East Pacific Avenue
   Baldwin Park, CA 91706-4297
   Daniel Wall, Director of Public Works/City Engineer
   E-mail: dwall@baldwinpark.com
   Phone: (626) 813-5251

4. City of Covina
   125 East College Street
   Covina, CA 91723
   Vivian Castro, Environmental Services Manager
   E-mail: vcastro@covinaca.gov
   Phone: (626) 384-5480

5. City of Glendora
   116 East Foothill Boulevard
   Glendora, CA 91741
   David A. Davies, Director of Public Works
   E-mail: ddavies@ci.glendora.ca.us
   Phone: (626) 914-8246

EXHIBIT B

Upper San Gabriel River Watershed
Responsible Agency Representatives

6. City of Industry
   15625 East Stafford Street, Suite 100
   City of Industry, CA 917447
   John D. Ballas, Director of Public Works/City Engineer
   E-mail: jdballas@cityofindustry.org
   Phone: (626) 333-2211

7. City of La Puente
   15900 East Main Street
   La Puente, CA 91744
   John Di Mario, Development Services Director
   E-mail: jdimario@lapuente.org
   Phone: (626) 855-1517

8. City of South El Monte
   1415 North Anita Avenue
   South El Monte, CA 91733
   Anthony (Tony) Ybarra, City Manager
   E-mail: TYbarra@soelmonte.org
   Phone: (626) 579-6540

CIMP COLLABORATION MAP FOR SAN GABRIEL RIVER WATERSHED MANAGEMENT AREA

Status as of May 6, 2015

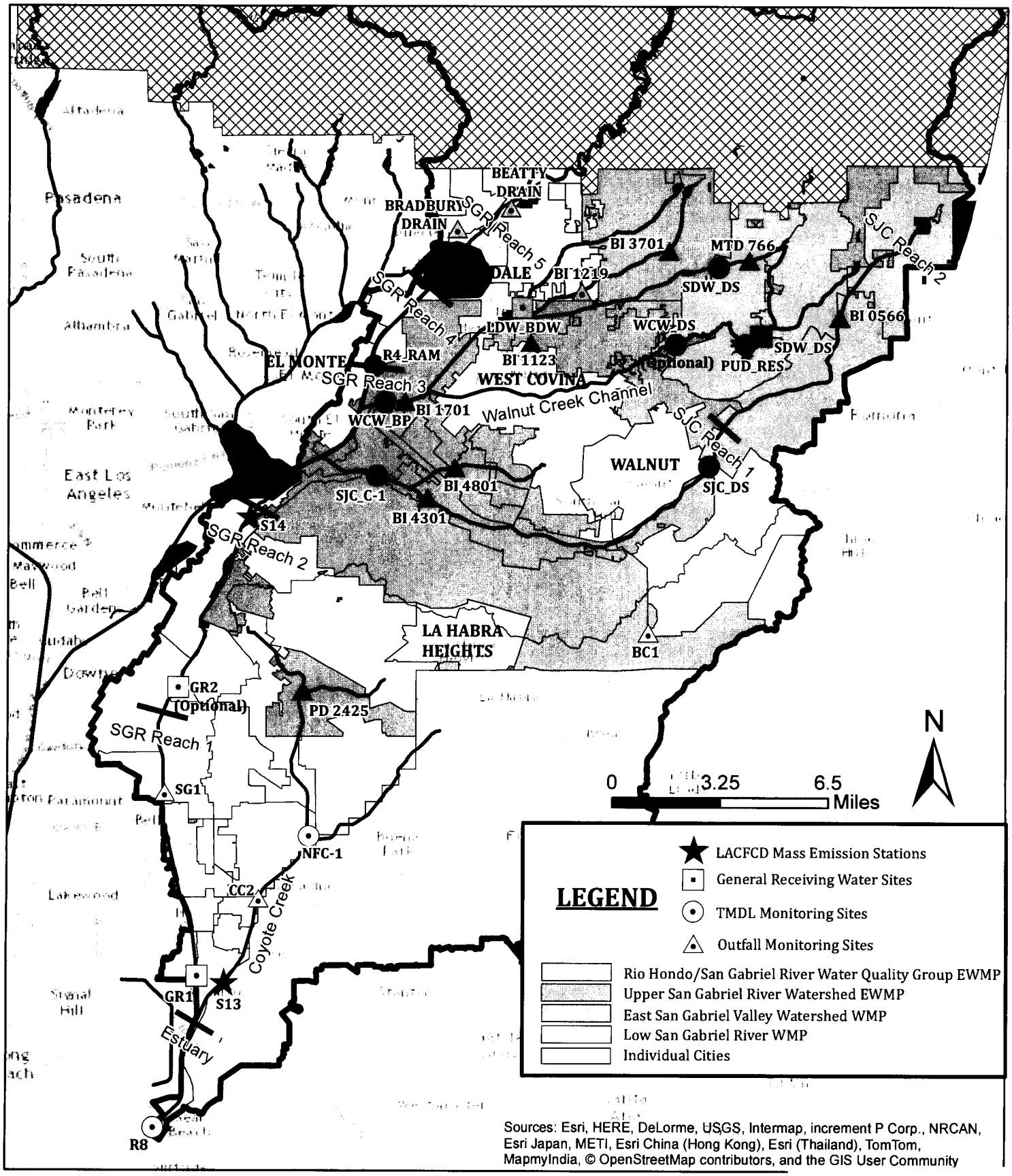


Exhibit B, 2 Pages

CIMP COLLABORATION MATRIX FOR SAN GABRIEL RIVER WATERSHED MANAGEMENT AREA
Status as of May 6, 2015

WMP/EWMP Group	Agencies	Harbor Toxics Monitoring	San Gabriel River Reach 4	North Fork Coyote Creek	San Jose Creek Reach 1	San Jose Creek Reach 2	Puddingstone Reservoir
[redacted]	Baldwin Park	X (Execute MOU)	**X (Conduct Receiving Water Monitoring)** (Execute MOU)	**X (Conduct Outfall Monitoring)**	**X (Conduct Receiving Water Monitoring)**	X (Receive Data)	**X (Conduct In-Lake Monitoring)**
	Covina						
	Glendora						
	Industry						
	La Puente						
	South El Monte (CIMP Only)						
	County of LA						
	LACFCD						
Rio Hondo/San Gabriel River EWMP	Arcadia	X (Execute MOU)					
	Azusa						
	Bradbury						
	Duarte						
	Monrovia						
	Sierra Madre						
	County of LA						
	LACFCD						
Lower San Gabriel River WMP	Artesia	**X (Conduct Wet Weather Monitoring at S13 and GR1)** (Execute MOU)		**X (Conduct Receiving Water Monitoring)**	X (Receive Data)		
	Bellflower						
	Cerritos						
	Diamond Bar						
	Downey						
	Hawaiian Gardens						
	La Mirada						
	Lakewood						
	Long Beach						
	Norwalk						
	Pico Rivera						
	Santa Fe Springs						
	Whittier						
	LACFCD						
East San Gabriel Valley WMP	Claremont	X (Execute MOU)				**X (Conduct Receiving Water Monitoring)**	**X (Conduct Stormwater Monitoring)**
	La Verne						
	Pomona						
	San Dimas						
Individual Cities	El Monte	X (Execute MOU)	X (Execute MOU)				
	La Habra Heights	X (Execute MOU)		X (In MOU Discussion with LSGR)	X (In MOU Discussion with USGR)		
	Irwindale	X (Potential Participation; Awaiting Confirmation)					
	Walnut	X (Potential Participation; Awaiting Confirmation)					
Other Agency	Los Angeles County Sanitation Districts	**X (Conduct Dry Weather Monitoring at R8)** (Data Sharing Only, No MOU)					

CH2MHILL

CH2M HILL
1000 Wilshire Boulevard
Suite 2100
Los Angeles, CA
90017
Tel 714.429.2000
Fax 714.429.2050

May 19, 2015

Jolene Guerrero
Watershed Management Division
LA County Department of Public Works
900 S. Fremont Ave.
Alhambra, CA 91803

Subject: Proposal for Upper San Gabriel River EWMP Group Coordinated Integrated Monitoring Program for FY 15-16, 16-17 and 17-18

Dear Jolene:

CH2M HILL is pleased to submit the attached scope of work, schedule, and fee estimate for the above subject project to provide TMDL receiving and stormwater monitoring, non-stormwater outfall screening and monitoring, CIMP evaluation and revisions, and semi-annual and annual reports.

We look forward to continuing to work with you on this exciting project. If you have any questions regarding this proposal, please call Kathleen Higgins (714) 435-6161.

Sincerely,

CH2M HILL Engineers, Inc.

Gerard Orozco
Area Manager

CH2M HILL Engineers, Inc.

Kathleen Higgins, P.E.
Project Manager

Exhibit C, 21 Pages

Scope of Work for Upper San Gabriel River EWMP Group Coordinated Integrated Monitoring Program

Purpose

The purpose of this project is to implement the first 3 years of the Upper San Gabriel River Enhanced Watershed Management Program Group (USGR EWMP Group) Draft Coordinated Integrated Monitoring Program (CIMP) (June 2014) in accordance with the December 28, 2012 MS4 permit.

Background

The following Permittees formed the USGR EWMP Group and collaboratively developed and submitted their Draft CIMP to the Regional Board on June 30, 2014. Comments from the Regional Board were received in February 2015.

1. County
2. City of Baldwin Park
3. City of Covina
4. City of Glendora
5. City of Industry
6. City of La Puente
7. Los Angeles County Flood Control District (LACFCD)

The CIMP utilizes alternative approaches to meet the Primary Objectives of the Monitoring and Reporting Program (MRP) of the MS4 permit, pending approval of Regional Board Executive Officer. The CIMP will be designed to provide the information necessary to guide management decisions in addition to providing a means to measure compliance with the Permit and is composed of four elements:

1. Receiving Water Monitoring
2. TMDL Receiving Water Monitoring
3. Stormwater Outfall Monitoring
4. Non-Stormwater Outfall Screening and Monitoring

The non-stormwater outfall screening has been performed as part of a separate project in Fiscal Year (FY) 2014-15. Outfalls with significant non-stormwater discharge were identified, and source investigations for these outfalls will be performed later this year. Outfalls with significant non-stormwater discharges that remain unaddressed after source investigation shall be monitored as part of this project. The remaining items of the CIMP will also be implemented as part of the scope of the work for this project as detailed herein.

Scope of Services

Task 1 – TMDL Receiving Water Monitoring and Stormwater Monitoring

CH2M HILL will install equipment and conduct monitoring as described in the Approved CIMP (anticipated to be July 1, 2015 or within 90 days of receipt of Regional Board approval, whichever is later.) All sample collection and field measurements shall be performed in accordance with the process and procedures described in the Approved CIMP. CH2M HILL will perform the following tasks:

- Provide a brief 4 to 6 page technical memorandum (TM 1) detailing sampling team activation procedures with decision criteria, rain gage or website information, field reports forms, identified staff supporting sampling, and contact information to the County Project Manager for review. CH2M HILL will notify the

County Project Manager 48 hours prior to arrival of a qualifying storm electronically by e-mail and by phone.

- Perform a hydrologic analysis of the TMDL receiving water and stormwater outfall monitoring sites to determine the flow pacing for sampling. Collect watershed data for each monitoring site, including rainfall and flow data. Estimate watershed size and determine an approximate runoff coefficient to be used for sampler pacing. Update pacing at monitoring sites after each storm.
- Collect and analyze monitoring data at the TMDL receiving water sites as described in the Approved CIMP, except for Puddingstone Reservoir. The monitoring sites and number of events are summarized in Attachment 1. The constituents to be monitored and frequency of events are summarized in Attachment 2. Coordination with Los Angeles County Sanitation Districts regarding their NPDES monitoring and the San Gabriel River Regional Monitoring Program and other WMP/EWMP groups may be necessary to ensure consistent monitoring approaches. CH2M HILL will submit a post-event memorandum within 30 calendar days after each event.
- Collect and analyze monitoring data at the stormwater outfall sites as described in the Approved CIMP. The monitoring sites and number of events are summarized in Attachment 1. The constituents to be monitored and frequency of events are summarized in Attachment 2. CH2M HILL will submit a post-event memorandum within 30 calendar days after each event.
- CH2M HILL will follow the approach described in the Approved CIMP for conducting aquatic toxicity monitoring and toxicity identification evaluations based on the following:
    - Sample locations for toxicity testing assumed to be required at three TMDL sites for all three years (FY 15-18). Toxicity testing will occur in samples collected 3 times per year (2 wet and 1 dry weather event) and once at the indicated number of storm water outfalls.
    - The toxicity testing scope assumes toxicity will be observed in one of the TMDL monitoring site samples in each sampling year. This will trigger a TIE at the TMDL sample location in the first year (FY 15-16), sampling at 2 stormwater outfalls in the second year (FY 16-17), and sampling at 2 stormwater outfalls in the third year (FY 17-18).
    - It is assumed that prior testing has identified Ceriodaphnia dubia as the most sensitive species for toxicity testing as identified in the draft CIMP.
    - The draft CIMP (Table C-9) lists a sample volume for toxicity testing as 40 liters. The requested sample volume for toxicity testing differed among labs but ranged from 3-5 gallons per sample. More is better when it comes to having volume for supporting TIEs and 5 gallons should be a goal with an absolute minimum sample requirement of 3 gallons.
    - Lab fees for toxicity testing includes C. dubia reference toxicant tests which will be reported as monthly (not concurrent) testing with in-lab cultures.
    - The Permit (Attachment E, Section XIV.B, Page E-36) identifies requirement for toxicity labs to have participated in intercalibration studies. Toxicity testing and TIE quotes were provided by Pacific EcoRisk (Fairfield, CA) and Aquatic Bioassay & Consulting Laboratory, Inc. (Ventura, CA) who have participated in the most recent marine toxicity interlaboratory calibration study conducted by SCCWRP as part of the California Bight project, which evaluated toxicity testing with marine species *Eohaustorius* and *Mytilus*.
    - TIE costs include sample specific chemical analysis for validating and interpreting toxicity tests (Chronic *C. dubia* Phase 1 TIE at 100% as described in Table C-10 (Attachment C) of the draft CIMP with the following treatments: baseline, pH 7, pH 8.5, filtration, EDTA, STS, PBO, carboxylesterase, SPE, SPE extraction. Water quality monitoring and chemical analyses to comply with TMDLs and permit requirements are assumed to be addressed by other elements of the scope.

  - The toxicity testing scope assumes a TRE Corrective Action Report will be required each year to indicate progress identifying the source of toxicity and how to control it.

- Obtain necessary permits for access and/or installation of equipment to conduct monitoring at the TMDL receiving water sites and stormwater outfall sites as described in the Approved CIMP.
- Submit information indicating that the selected testing laboratory will be capable of performing the water quality analysis with Method of Detection Limits meeting the Minimum Levels of Table E-2 of the Permit Attachment E prior to the first monitoring event.
- Evaluate monitoring sites for FY 16-17 and 17-18.
- Provide the County Project Manager with the Site Health and Safety Plan (SHSP) prior to the start of any field work. The SHSP shall address site-specific safety concerns at all sites including, but not limited to, permit required confined-space entry safety requirements, vandalism, sites' accessibility, lane closures, storm drain laterals, etc. The SHSP will also address procedures and practices for:
  - Acceptable entry conditions
  - Testing, monitoring, communications and lighting equipment
  - Barriers and shields
  - Ladders
  - Retrieval of devices
- CH2M HILL is responsible for the monitoring equipment and will perform maintenance on the monitoring sites to fix equipment malfunctions and conduct the initial reinstallation at all sites just prior to the storm season (FY 16-17 and 17-18).

Deliverables

- Electronic copy of Site Health and Safety Plan (1 submittal)
- Electronic copy of Technical Memorandum 1 (2 submittals - Draft/Final)
- Electronic copy of Event Summary Reports (4 wet and 2 dry events per year; 1 submittal each)

Assumptions

- The design of monitoring stations will not be required to follow the County's standard plans for water quality monitoring station installation.
- It is assumed that two field teams will conduct pre-storm set up of monitoring stations and post-storm collection of samples for FY 2015-16 and 2016-17, and three field teams for 2017-18.
- One to three bottle changes are anticipated at each monitoring station for all storm events.
- The outfalls are assumed to be readily accessible and visible. The County will provide CH2M HILL with any necessary gate keys to access the outfalls prior to the field screening.
- Technical Memorandum 1 will be limited to one round of review by the EWMP Group Members. The review period from the EWMP Group Members will be two weeks. The County Project Manager will compile all comments from the EWMP Group Members, with no conflicting comments. After CH2M HILL submits the final TM, any additional comments from the EWMP Group Members will be incorporated in the Annual Report.
- The post event memorandums will be limited to one submittal. Any comments from the EWMP Group Members will be incorporated in the Annual Report. The post event memorandums will be limited to the following:

  - The date, time of sampling or measurements, exact place, weather conditions, and rain fall amount.
  - The individual(s) who performed the sampling or measurements.
  - The date(s) laboratory analyses were performed.
  - The individual(s) who performed the laboratory analyses.
  - The analytical techniques or methods used.
  - The results of the laboratory analysis and the exceedances as compared to the water quality objectives.
  - The data sheets showing toxicity test results.
- The post event memorandums will not include any figures or storm hydrographs.
- The County project manager will be notified by email prior to mobilization of each sampling event.
- The County project manager will be notified by e-mail when a false start occurs. The false start will be documented in a brief 1 page memo limited to the following information: description of the rainfall information, event activities, and reason for the false start.
- The County project manager will be notified by email immediately after a sampling event indicating whether the samples were successfully collected. The email will include the following information: date, time of sampling or measurements, exact place, weather conditions, rainfall amount, and the individual(s) who performed the sampling or measurements.

Task 2 – Non-Stormwater Outfall Screening and Monitoring

CH2M HILL will implement a portion of the non-stormwater outfall screening and monitoring program that has not already been completed as part of a separate project.

- CH2M HILL will conduct source investigation of outfalls with significant discharge in accordance with the procedures and schedule approved by the County Project Manager.
  - The first phase of the source investigation for 25% of the outfalls with significant discharge will be completed by a separate project no later than December 28, 2015.
  - The second phase of the source investigation for 25% of the outfalls with significant discharge will be completed by a separate project no later than December 28, 2016. CH2M HILL will submit a technical memorandum (TM 3) identifying the source(s) of the discharge within 30 calendar days after completion of the source investigation.
  - CH2M HILL will complete the third and last phase of the source investigation for 50% of the outfalls with significant discharge no later than December 28, 2017, and submit a technical memorandum (TM 5) identifying the source(s) of the discharge within 30 calendar days after completion of the source investigation. Six of the outfalls will be completed by a separate project and two of the outfalls will be completed by this project.
- CH2M HILL will monitor outfalls with significant non-stormwater discharges that remain unaddressed after source investigation starting in the next scheduled dry weather monitoring period. CH2M HILL will collect and analyze monitoring data at the non-stormwater outfall sites. The monitoring parameters and procedures shall follow the Approved CIMP. CH2M HILL will submit a post-event memorandum within 30 calendar days after each event.
- The County project manager will be notified by email immediately after a non-stormwater outfall sampling event indicating whether the samples were successfully collected. The email will include the following information: date, time of sampling or measurements, exact place, weather conditions, rainfall amount, and the individual(s) who performed the sampling or measurements.

- CH2M HILL will notify members of the USGR EWMP Group immediately if a potential Illicit Discharge as defined in the MS4 Permit is observed during field screening event.
- CH2M HILL will prepare draft letters for members of the USGR EWMP Group to notify the Regional Board and the upstream jurisdiction within 3 calendar days of determining a NSW discharge source is from an upstream jurisdiction, including characterization data, contribution determination efforts, and efforts taken to identify its source in accordance with the requirements of the MRP. Assume CH2M HILL will prepare up to 2 letters each in FY 15-16, 16-17, and 17-18.
- CH2M HILL will prepare draft letters for members of the USGR EWMP Group to notify the Regional Board within 3 calendar days of determining authorized or conditionally exempt essential NSW discharges are a source of pollutants in accordance with the requirements of the MRP. Assume CH2M HILL will prepare up to 2 letters each in FY 15-16, 16-17, and 17-18.
- CH2M HILL will update the water quality characteristics for significant outfalls in the GIS database every year prior to June 30.
- CH2M HILL will obtain paper-based outfall drainage maps from LACFCD and other USGR EWMP Group members and include an electronic copy in the GIS database.
- CH2M HILL will delineate drainage areas for significant outfalls and update the GIS database.

Deliverables

- Electronic list of related as-builts and number of catch basins to check for the source in the field
- Electronic copy of Technical Memorandum 3 (2 submittals - Draft/Final)
- Electronic copy of Technical Memorandum 5 (2 submittals - Draft/Final)
- Electronic files of outfall inventory GIS database

Assumptions

- It is assumed that the EWMP Group Members will be able to provide a complete set of as-builts to CH2M HILL related to all outfalls with significant non-stormwater discharge. If no as-builts are available, CH2M HILL will conduct a desktop review of the County's GIS stormdrain database.
- It is assumed that a total of 15 outfalls have significant non-stormwater discharge. It is assumed that source identification on 13 outfalls will be performed by a separate project, and 2 outfalls will be performed by this project in FY 2017-18.
- The source identification will be limited to 10 hours for each site for the desktop review and one day for field inspection.
- It is assumed that each outfall with significant non-stormwater discharge will have four upstream manholes that require traffic control for source identification. It is assumed that traffic control plans will need to be prepared for two manholes per outfall, and one day of traffic control is required to access manholes for each outfall.
- Each technical memorandum will be limited to one round of review by the EWMP Group Members. The review period from the EWMP Group Members will be two weeks. The County Project Manager will compile all comments from the EWMP Group Members, with no conflicting comments. After CH2M HILL submits the final TM, any additional comments from the EWMP Group Members will be incorporated in the Annual Report.
- It is assumed that the number of outfalls that will require non-stormwater monitoring will increase starting from 3, to 5, and to 10 outfalls in Fiscal Years 2015-16, 2016-17, and 2017-18, respectively.

- Non-stormwater outfall monitoring will be by grab sample, the sites will be readily accessible and will not require any special equipment to access the sites. It is assumed that one access permit will be obtained from LACFCD and/or cities to cover both the source identification and non-stormwater outfall monitoring. It is assumed that no traffic control will be required for non-stormwater outfall monitoring.

Task 3 - CIMP Evaluation and Revision

CH2M HILL will analyze monitoring data collected by the LACFCD, other watershed management program groups, Los Angeles County Sanitation Districts, San Gabriel River Regional Monitoring Program, and relevant special studies in accordance with the Approved CIMP. CH2M Hill will review monitoring data from other NPDES permittees, including municipalities and industrial waste dischargers as requested by County Project Manager. CH2M HILL will perform the following tasks:

- Prepare a technical memorandum (TM2, TM 4, TM 6) that includes an assessment of the water quality of receiving water and stormwater and non-stormwater discharges based on data analysis and recommendations on any changes to the Approved CIMP by April 30 of each year. The source assessment tech memos (TM3 and TM5) are discussed in Task 2.
- As directed by County Project Manager, prepare a letter requesting Regional Board's approval for modifying the CIMP as described in the Approved CIMP, such as removing constituents, reducing monitoring frequencies, or relocating monitoring sites.
- Upon approval by the Regional Board and as directed by County Project Manager, prepare a Revised CIMP for the County Project Manager to submit to the Regional Board.

Deliverables

- Electronic copy of Technical Memorandum 2 in 2016 (2 submittals - Draft/Final)
- Electronic copy of Technical Memorandum 4 in 2017 (2 submittals - Draft/Final)
- Electronic copy of Technical Memorandum 6 in 2017 (2 submittals - Draft/Final)
- Electronic copy of Revised CIMP – 2016 (2 submittals - Draft/Final)
- Electronic copy of Revised CIMP – 2017 (2 submittals - Draft/Final)
- Electronic copy of Revised CIMP – 2018 (2 submittals - Draft/Final)

Assumptions

- Each technical memorandum will be limited to one round of review by the EWMP Group Members. The review period from the EWMP Group Members will be two weeks. The County Project Manager will compile all comments from the EWMP Group Members, with no conflicting comments. After CH2M HILL submits the final TM, any additional comments from the EWMP Group Members will be incorporated in the Annual Report.

Task 4 - Semi-Annual Data Reports

CH2M HILL will prepare Semi-Annual Data Reports as described in the Approved CIMP and meet the requirements of the MRP for the County Project Manager to submit to the Regional Board. CH2M HILL will perform the following tasks:

- Submit the Semi-Annual Data Report for the CIMP Implementation period from July 1 to December 31 no later than April 15 of each year.
- Submit the Semi-Annual Data Report for the CIMP Implementation period from January 1 to June 30 no later than October 15 of each year.
- Provide data in both Stormwater Monitoring Coalition (SMC) and California Environmental Data Exchange Network (CEDEN) formats.

Deliverables

- Electronic copy of Semi-Annual Report in October 2015 (2 submittals - Draft/Final)
- Electronic copy of Semi-Annual Report in April 2016 (2 submittals - Draft/Final)
- Electronic copy of Semi-Annual Report in October 2016 (2 submittals - Draft/Final)
- Electronic copy of Semi-Annual Report in April 2017 (2 submittals - Draft/Final)
- Electronic copy of Semi-Annual Report in October 2017 (2 submittals - Draft/Final)
- Electronic copy of Semi-Annual Report in April 2018 (2 submittals - Draft/Final)

Assumptions

- Each Semi-Annual Report will be limited in scope and will only present the following data that have already been analyzed in TMs 2, 4, and 6:
    - Exceedances applicable to WQBELs, RWLs, action levels, or aquatic toxicity thresholds.
    - Corresponding sample dates and monitoring locations and other relevant information previously collected.
- The Semi-Annual Report will not require any new analysis of data or comparison of exceedances.
- Each Semi-Annual Report will be limited to one round of review by the EWMP Group Members. The review period from the EWMP Group Members will be two weeks. The County Project Manager will compile all comments from the EWMP Group Members, with no conflicting comments. After CH2M HILL submits the final TM, any additional comments from the EWMP Group Members will be incorporated in the Annual Report.

Task 5 - Annual Reports

CH2M HILL will prepare and submit to the County Project Manager an Annual Report for Years 4, 5, and 6 that covers the CIMP Implementation period from July 1 to June 30. The Annual Report will contain the Annual Report elements described in the Approved CIMP and the Annual Assessment and Reporting requirements of the MRP (Parts XVI to XVIII of Attachment E).

- Submit the Draft Annual Report no later than May 31 of each year.
- Submit the Final Annual Report no later than June 30 of each year.
- Prepare a Municipal Action Level (MAL) Assessment Report as a part of the Annual Report in accordance with Attachment G of the MS4 Permit.
- Prepare a MAL Action Plan as a part of the Annual Report in accordance with Attachment G of the MS4 Permit if stormwater monitoring data exceeds the MALs specified in Attachment G of the MS4 Permit.
- Conduct Adaptive Management Process as described in Part V.C.8 of the MS4 Permit (pages 66-67) for the first two years of EWMP implementation, which is anticipated to cover the period from April 28, 2016 to April 28, 2018 (the USGR EWMP is expected to be approved no later than April 28, 2016.)
- Prepare a Draft Revised EWMP as necessary based on results of the Adaptive Management Process.

Deliverables

- Electronic copy of FY 2015-16 Annual Report – Year 4 (2 submittals – Draft/Final)
- Electronic copy of FY 2016-17 Annual Report – Year 5 (2 submittals – Draft/Final)
- Electronic copy of FY 2017-18 Annual Report – Year 6 (2 submittals – Draft/Final)
- Electronic copy of Revised EWMP – 2017 (2 submittals - Draft/Final)

- Electronic copy of Revised EWMP – 2018 (2 submittals - Draft/Final)

Assumptions

- Part XVII of Attachment E requires watershed summary information to be included in its odd year Annual Report. It is assumed that most information required in Part XVII is readily available from the Year 3 Annual Report and will be provided for CH2M HILL to include for Year 5. The County will provide rainfall data for CH2M HILL to develop the isohyetal maps for the subwatershed.
- It is assumed that all EWMP Group Members will prepare the requirements listed under Part XVIII.A.1 (Storm Water Control Measures) in the same format, and CH2M HILL will compile all of the information for the Annual Report. The information prepared by EWMP Group Members will include:
    - a. Estimated cumulative change in percent EIA since the effective date of this Order and, if possible, the estimated change in the storm water runoff volume during the 85th percentile storm event.
    - b. Summary of New Development/Re-development Projects constructed within the Permittee(s) jurisdictional area during the reporting year.
    - c. Summary of Retrofit Projects that reduced or disconnected impervious area from the MS4 during the reporting year.
    - d. Summary of other projects designed to intercept storm water runoff prior to discharge to the MS4 during the reporting year.
    - e. For the projects summarized above in 1.b through 1.d, estimate the total runoff volume retained on site by the implemented projects.
    - f. Summary of actions taken in compliance with TMDL implementation plans or approved Watershed Management Programs to implement TMDL provisions in Part VI.E and Attachments L-R of this Order.
    - g. Summary of riparian buffer/wetland restoration projects completed during the reporting year. For riparian buffers include width, length and vegetation type; for wetland include acres restored, enhanced or created.
    - h. Summary of other Minimum Control Measures implemented during the reporting year, as the Permittee deems relevant.
    - i. Status of all multi-year efforts that were not completed in the current year and will therefore continue into the subsequent year(s). Additionally, if any of the requested information cannot be obtained, the Permittee shall provide a discussion of the factor(s) limiting its acquisition and steps that will be taken to improve future data collection efforts.
- It is assumed that all EWMP Group Members will provide the following information listed under Part XVIII.A.2.c (Effectiveness Assessment of Stormwater Control Measures):
    - c. Where control measures were designed to reduce impervious cover of storm water peak flow and flow duration, provide hydrographs or flow data or pre- and post-control activity for the 85th percentile, 24-hour rain event, if available.
- CH2M HILL will work with EWMP Group Members and lead Part XVIII.A.6. It is assumed that all EWMP Group Members will provide information on Part XVIII.A.6 (Adaptive Management Strategies), and CH2M HILL will provide an assessment of overall effectiveness after the initial information is submitted by the EWMP Group Members. The information provided by EWMP Group Members will include:
    - a. Identify the most effective control measures and describe why the measures were effective and how other control measures will be optimized based on past experiences.

  - b. Identify the least effective control measures and describe why the measures were deemed ineffective and how the control measures will be modified or terminated.
  - c. Identify significant changes to control measures during the prior year and the rationale for the changes.
  - d. Describe 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 Water Board or its Executive Officer shall be clearly identified at the beginning of the Annual Report.
  - e. Include a detailed description of control measures to be applied to New Development or Re-development projects disturbing more than 50 acres.
  - f. Provide the status of all multi-year efforts that were not completed in the current year and will continue into the subsequent year(s).

- All data will be collected and submitted in the CEDEN format per the appropriate Submission Guidance Documents and Templates updated 8/23/2013.
- Each Annual Report will be limited to one round of review by the EWMP Group Members. The review period from the EWMP Group Members will be two weeks. The County Project Manager will compile all comments from the EWMP Group Members, with no conflicting comments.
- Each Annual Report will be limited in scope and will present data in a simplified way. The level of effort is commensurate with a concise Annual Report that provides information requested in A.1 through A.7 of Part XVIII. Completion of the Annual Report is dependent on each EWMP Group Member providing data that can easily be compiled into the Annual Report.
- The Annual Reports will not include any figures or storm hydrographs.

Task 6 – Project Management

CH2M HILL will provide project management services as follows:

- Provide a detailed schedule to complete all the tasks of this Scope of Work to be approved by the County Project Manager. This schedule shall be updated monthly as necessary and provided to the County Project Manager.
- Perform project management duties including coordinating with County Project Manager and coordination calls as needed.
- Schedule and prepare agenda, presentation, and summary notes for meetings with the USGR EWMP Group. Assume that two CH2M HILL staff will attend up to 4 meetings with the USGR EWMP Group per year.
- Attend, participate, or support USGR EWMP Group members in meetings with other watershed management program groups, Regional Board staff, City Councils, County staff, stakeholders, and/or other consultants as necessary to deliver the project. Assume that two CH2M HILL staff will attend up to 4 meetings per year.

Deliverables

- Electronic copy of schedule
- Electronic copy of all meeting agendas and summaries
- Electronic monthly invoices

Deliverable Schedule

Fiscal Year 15-16:

- August 2015 – Site Health and Safety Plan
- August 2015 – Draft Tech Memo 1 – Team Activation Procedures
- August 2015 –Laboratory Credentials
- September 2015 – Final Tech Memo 1 – Team Activation Procedures
- September 2015 – Draft Semi-Annual Report
- October 2015 – Final Semi-Annual Report
- March 2016 – Draft Tech Memo 2 – Water Quality Analysis
- March 2016 – Draft Semi-Annual Report
- April 2016 – Final Tech Memo 2 – Water Quality Analysis
- April 2016 – Final Semi-Annual Report
- May 2016 – Letter to Regional Board to Revise CIMP
- May 2016 – Draft Annual Report
- June 2016 – Final Annual Report
- June 2016 – Draft Revised CIMP
- June 2016 – Final Revised CIMP
- June 2016 – Updated outfall GIS database

Fiscal Year 16-17:

- August 2016 – Draft Tech Memo 3 – Source Identification for Second 25% of Significant Non-Stormwater Discharge
- September 2016 – Final Tech Memo 3 – Source Identification for Second 25% of Significant Non-Stormwater Discharge
- September 2016 – Draft Semi-Annual Report
- October 2016 – Final Semi-Annual Report
- March 2017 – Draft Tech Memo 4 – Water Quality Analysis
- March 2017 – Draft Semi-Annual Report
- April 2017 – Final Tech Memo 4 – Water Quality Analysis
- April 2017 – Final Semi-Annual Report
- May 2017 – Letter to Regional Board to Revise CIMP
- May 2017 – Draft Annual Report
- May 2017 – Draft Revised EWMP
- June 2017 – Final Annual Report
- June 2017 – Draft Revised CIMP

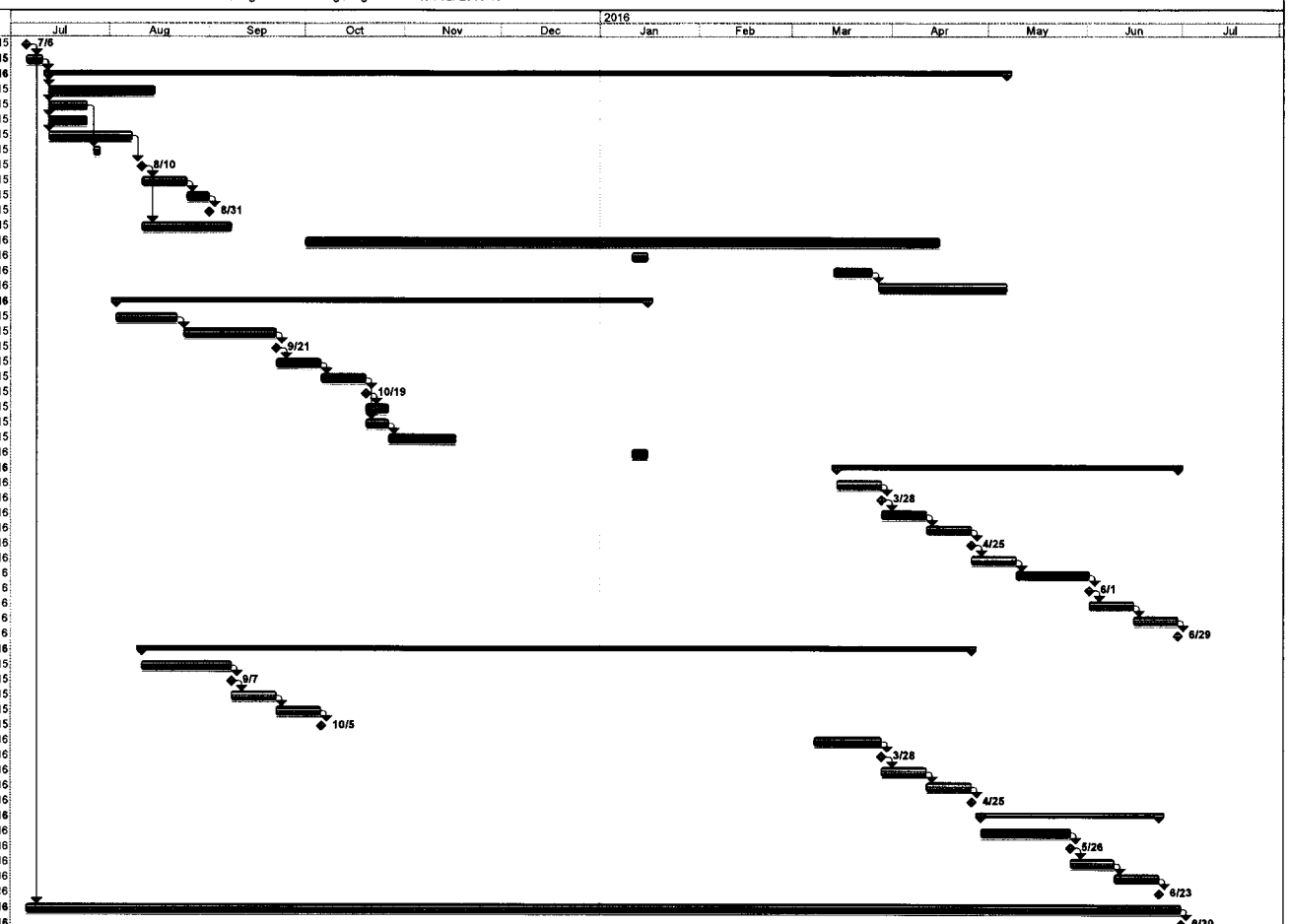
- June 2017 – Final Revised CIMP
- June 2017 – Updated outfall GIS database
- June 2017 – Final Revised EWMP

Fiscal Year 17-18:

- August 2017 – Draft Tech Memo 5 – Source Identification for Last 50% of Significant Non-Stormwater Discharge
- September 2017 – Final Tech Memo 5 – Source Identification for Last 50% of Significant Non-Stormwater Discharge
- September 2017 – Draft Semi-Annual Report
- October 2017 – Final Semi-Annual Report
- March 2018 – Draft Tech Memo 6 – Water Quality Analysis
- March 2018 – Draft Semi-Annual Report
- April 2018 – Final Tech Memo 6 – Water Quality Analysis
- April 2018 – Final Semi-Annual Report
- May 2018 – Letter to Regional Board to Revise CIMP
- May 2018 – Draft Annual Report
- May 2018 – Draft Revised EWMP
- June 2018 – Final Annual Report
- June 2018 – Draft Revised CIMP
- June 2018 – Final Revised CIMP
- June 2018 – Updated outfall GIS database
- June 2018 – Final Revised EWMP

Upper San Gabriel River EWMP Group
Coordinated Integrated Monitoring Program - Fiscal Year 2015-16

ID	Task Name	Duration	Start	Finish
1	Notice to Proceed	0 days	Mon 7/6/15	Mon 7/6/15
2	**Task 1. Project Kick off Meeting**	**5 days**	**Mon 7/6/15**	**Fri 7/10/15**
3	**Task 2. TMDL Receiving Water and Stormwater Monitoring**	**215 days?**	**Mon 7/13/15**	**Fri 5/6/16**
4	Install Monitoring Stations	25 days	Mon 7/13/15	Fri 8/14/15
5	Develop Health and Safety Plan	10 days	Mon 7/13/15	Fri 7/24/15
6	Compile Laboratory Credentials	10 days	Mon 7/13/15	Fri 7/24/15
7	TM 1 - Sampling Team Activation Procedures	20 days	Mon 7/13/15	Fri 8/7/15
8	Conduct Dry Weather Monitoring - 1st Event (3 sites)	2 days	Mon 7/27/15	Tue 7/28/15
9	Submit Draft TM 1	0 days	Mon 8/10/15	Mon 8/10/15
10	USGR EWMP Group Review	10 days	Tue 8/11/15	Mon 8/24/15
11	Finalize TM 1	5 days	Tue 8/25/15	Mon 8/31/15
12	Submit Final TM 1	0 days	Mon 8/31/15	Mon 8/31/15
13	Perform Hydrologic Analysis	20 days	Tue 8/11/15	Mon 9/7/15
14	Conduct Wet Weather Monitoring	142 days?	Thu 10/1/15	Fri 4/15/16
15	Conduct Dry Weather Monitoring - 2nd Event (3 sites)	5 days	Mon 1/11/16	Fri 1/15/16
16	Evaluate Sites for FY 16-17 Monitoring (3 sites)	10 days	Mon 3/14/16	Fri 3/25/16
17	Obtain Permits for FY 16-17 Monitoring (3 sites)	30 days	Mon 3/28/16	Fri 5/6/16
18	**Task 3. Non-Stormwater Outfall Screening and Monitoring**	**120 days**	**Mon 8/3/15**	**Fri 1/15/16**
19	Perform Source ID for Top 25% of Significant NSW	15 days	Mon 8/3/15	Fri 8/21/15
20	TM - Source Identification for Top 25%	21 days	Mon 8/24/15	Mon 9/21/15
21	Submit Draft TM	0 days	Mon 9/21/15	Mon 9/21/15
22	USGR EWMP Group Review	10 days	Tue 9/22/15	Mon 10/5/15
23	Finalize TM	10 days	Tue 10/6/15	Mon 10/19/15
24	Submit Final TM	0 days	Mon 10/19/15	Mon 10/19/15
25	Prepare Letter for Upstream Jurisdiction	5 days	Tue 10/20/15	Mon 10/26/15
26	Prepare Letter for Authorized Discharges as Pollutant Source	5 days	Tue 10/20/15	Mon 10/26/15
27	Delineate Drainage Areas and Update GIS Database	15 days	Tue 10/27/15	Mon 11/16/15
28	Conduct Dry Weather Monitoring - 2nd Event (3 outfalls)	5 days	Mon 1/11/16	Fri 1/15/16
29	**Task 4. CIMP Evaluation and Revision**	**77 days**	**Tue 3/15/16**	**Wed 6/29/16**
30	TM 2 - Water Quality Analysis	10 days	Tue 3/15/16	Mon 3/28/16
31	Submit Draft TM 2	0 days	Mon 3/28/16	Mon 3/28/16
32	USGR EWMP Group Review	10 days	Tue 3/29/16	Mon 4/11/16
33	Finalize TM 2	10 days	Tue 4/12/16	Mon 4/25/16
34	Submit Final TM 2	0 days	Mon 4/25/16	Mon 4/25/16
35	Letter to Regional Board to Revise CIMP	10 days	Tue 4/26/16	Mon 5/9/16
36	Prepare Revised CIMP	17 days	Tue 5/10/16	Wed 6/1/16
37	Submit Draft Revised CIMP	0 days	Wed 6/1/16	Wed 6/1/16
38	USGR EWMP Review	10 days	Thu 6/2/16	Wed 6/15/16
39	Finalize Revised CIMP	10 days	Thu 6/16/16	Wed 6/29/16
40	Submit Final Revised CIMP	0 days	Wed 6/29/16	Wed 6/29/16
41	**Task 5. Semi-Annual Reports**	**185 days**	**Tue 8/11/15**	**Mon 4/25/16**
42	Prepare Semi-Annual Report	20 days	Tue 8/11/15	Mon 9/7/15
43	Submit Draft Semi-Annual Report	0 days	Mon 9/7/15	Mon 9/7/15
44	USGR EWMP Group Review	10 days	Tue 9/8/15	Mon 9/21/15
45	Finalize Semi-Annual Report	10 days	Tue 9/22/15	Mon 10/5/15
46	Submit Final Semi-Annual Report	0 days	Mon 10/5/15	Mon 10/5/15
47	Prepare Semi-Annual Report	15 days	Tue 3/8/16	Mon 3/28/16
48	Submit Draft Semi-Annual Report	0 days	Mon 3/28/16	Mon 3/28/16
49	USGR EWMP Group Review	10 days	Tue 3/29/16	Mon 4/11/16
50	Finalize Semi-Annual Report	10 days	Tue 4/12/16	Mon 4/25/16
51	Submit Final Semi-Annual Report	0 days	Mon 4/25/16	Mon 4/25/16
52	**Task 6. Annual Reports**	**40 days**	**Fri 4/29/16**	**Thu 6/23/16**
53	Prepare Annual Report	20 days	Fri 4/29/16	Thu 5/26/16
54	Submit Draft Annual Report	0 days	Thu 5/26/16	Thu 5/26/16
55	USGR EWMP Group Review	10 days	Fri 5/27/16	Thu 6/9/16
56	Finalize Annual Report	10 days	Fri 6/10/16	Thu 6/23/16
57	Submit Final Annual Report	0 days	Thu 6/23/16	Thu 6/23/16
58	**Task 7. Project Management**	**259 days**	**Mon 7/6/15**	**Thu 6/30/16**
59	**Fiscal Year Complete**	**0 days**	**Thu 6/30/16**	**Thu 6/30/16**

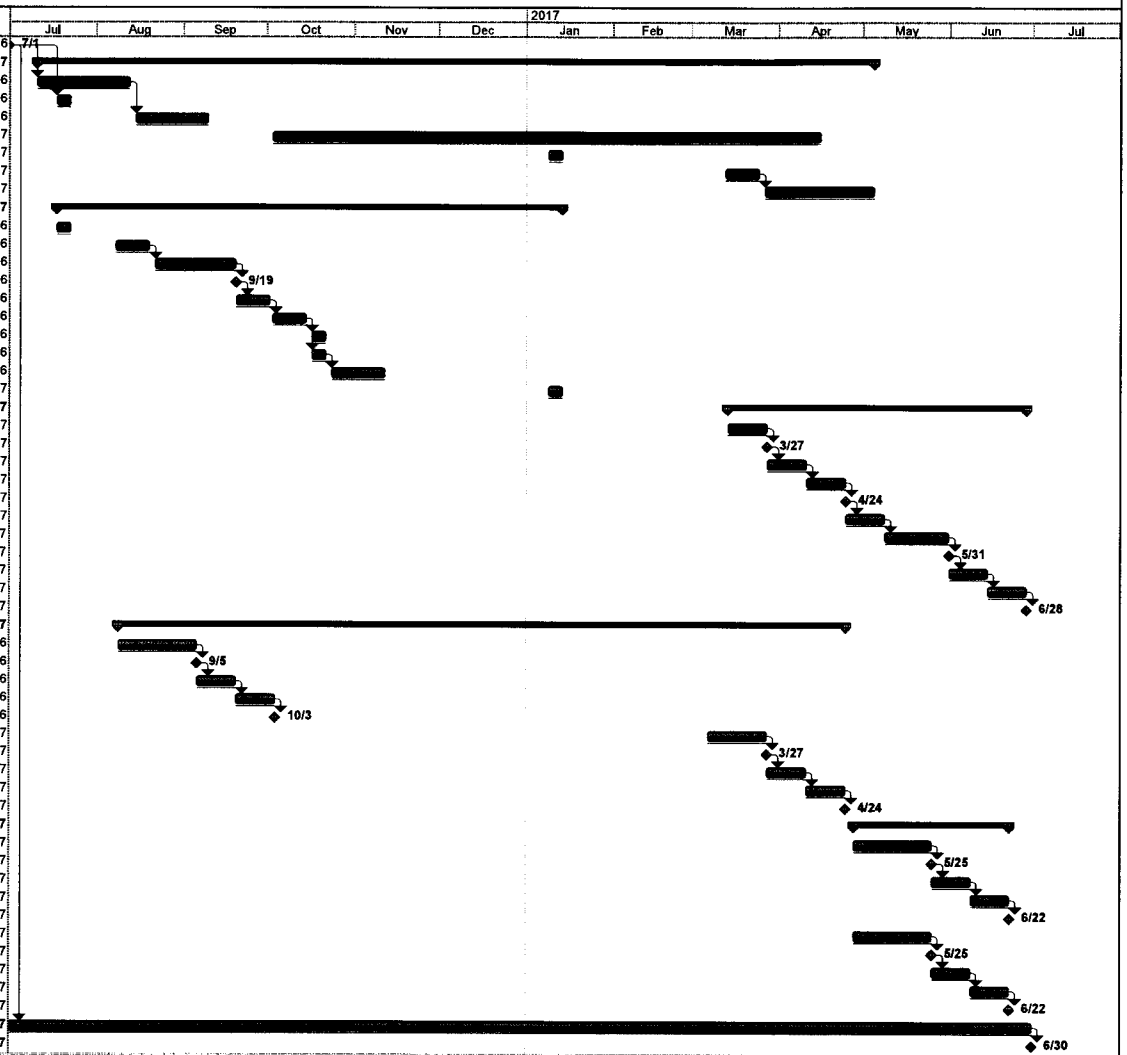


Project: CIMP_Schedule_FY2015-16.m
Date: Thu 4/30/15

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

Upper San Gabriel River EWMP Group
Coordinated Integrated Monitoring Program - Fiscal Year 2016-17

ID	Task Name	Duration	Start	Finish
1	Start Fiscal Year 16-17	0 days	Fri 7/1/16	Fri 7/1/16
2	**Task 2. TMDL Receiving Water and Stormwater Monitoring**	**216 days?**	**Mon 7/11/16**	**Thu 5/4/17**
3	Install Monitoring Stations	25 days	Mon 7/11/16	Fri 8/12/16
4	Conduct Dry Weather Monitoring - 1st Event (3 sites)	5 days	Mon 7/18/16	Fri 7/22/16
5	Perform Hydrologic Analysis	20 days	Mon 8/15/16	Fri 9/9/16
6	Conduct Wet Weather Monitoring	141 days?	Mon 10/3/16	Sat 4/15/17
7	Conduct Dry Weather Monitoring - 2nd Event (3 sites)	5 days	Mon 1/9/17	Fri 1/13/17
8	Evaluate Sites for FY 17-18 Monitoring (3 sites)	10 days	Mon 3/13/17	Fri 3/24/17
9	Obtain Permits for FY 17-18 Monitoring (3 sites)	30 days	Mon 3/27/17	Thu 5/4/17
10	**Task 3. Non-Stormwater Outfall Screening and Monitoring**	**131 days**	**Mon 7/18/16**	**Fri 1/13/17**
11	Conduct Dry Weather Monitoring - 1st Event (3 outfalls)	5 days	Mon 7/18/16	Fri 7/22/16
12	Perform Source ID for Second 25% of Significant NSW	10 days	Mon 8/8/16	Fri 8/19/16
13	TM - Source Identification for Second 25%	21 days	Mon 8/22/16	Mon 9/19/16
14	Submit Draft TM	0 days	Mon 9/19/16	Mon 9/19/16
15	USGR EWMP Group Review	10 days	Tue 9/20/16	Sat 10/1/16
16	Finalize TM	10 days	Mon 10/3/16	Fri 10/14/16
17	Prepare Letter for Upstream Jurisdiction	5 days	Mon 10/17/16	Fri 10/21/16
18	Prepare Letter for Authorized Discharges as Pollutant Source	5 days	Mon 10/17/16	Fri 10/21/16
19	Delineate Drainage Areas and Update GIS Database	15 days	Mon 10/24/16	Fri 11/11/16
20	Conduct Dry Weather Monitoring - 2nd Event (5 outfalls)	5 days	Mon 1/9/17	Fri 1/13/17
21	**Task 4. CIMP Evaluation and Revision**	**78 days**	**Tue 3/14/17**	**Wed 6/28/17**
22	TM 2 - Water Quality Analysis	10 days	Tue 3/14/17	Mon 3/27/17
23	Submit Draft TM 2	0 days	Mon 3/27/17	Mon 3/27/17
24	USGR EWMP Group Review	10 days	Tue 3/28/17	Mon 4/10/17
25	Finalize TM 2	11 days	Tue 4/11/17	Mon 4/24/17
26	Submit Final TM 2	0 days	Mon 4/24/17	Mon 4/24/17
27	Letter to Regional Board to Revise CIMP	10 days	Tue 4/25/17	Mon 5/8/17
28	Prepare Revised CIMP	17 days	Tue 5/9/17	Wed 5/31/17
29	Submit Draft Revised CIMP	0 days	Wed 5/31/17	Wed 5/31/17
30	USGR EWMP Review	10 days	Thu 6/1/17	Wed 6/14/17
31	Finalize Revised CIMP	10 days	Thu 6/15/17	Wed 6/28/17
32	Submit Final Revised CIMP	0 days	Wed 6/28/17	Wed 6/28/17
33	**Task 5. Semi-Annual Reports**	**187 days**	**Tue 8/9/16**	**Mon 4/24/17**
34	Prepare Semi-Annual Report	20 days	Tue 8/9/16	Mon 9/5/16
35	Submit Draft Semi-Annual Report	0 days	Mon 9/5/16	Mon 9/5/16
36	USGR EWMP Group Review	10 days	Tue 9/6/16	Mon 9/19/16
37	Finalize Semi-Annual Report	11 days	Tue 9/20/16	Mon 10/3/16
38	Submit Final Semi-Annual Report	0 days	Mon 10/3/16	Mon 10/3/16
39	Prepare Semi-Annual Report	15 days	Tue 3/7/17	Mon 3/27/17
40	Submit Draft Semi-Annual Report	0 days	Mon 3/27/17	Mon 3/27/17
41	USGR EWMP Group Review	10 days	Tue 3/28/17	Mon 4/10/17
42	Finalize Semi-Annual Report	11 days	Tue 4/11/17	Mon 4/24/17
43	Submit Final Semi-Annual Report	0 days	Mon 4/24/17	Mon 4/24/17
44	**Task 6. Annual Reports**	**40 days**	**Fri 4/28/17**	**Thu 6/22/17**
45	Prepare Annual Report	20 days	Fri 4/28/17	Thu 5/25/17
46	Submit Draft Annual Report	0 days	Thu 5/25/17	Thu 5/25/17
47	USGR EWMP Group Review	10 days	Fri 5/26/17	Thu 6/8/17
48	Finalize Annual Report	10 days	Fri 6/9/17	Thu 6/22/17
49	Submit Final Annual Report	0 days	Thu 6/22/17	Thu 6/22/17
50	Prepare Revised EWMP	20 days	Fri 4/28/17	Thu 5/25/17
51	Submit Draft Revised EWMP	0 days	Thu 5/25/17	Thu 5/25/17
52	USGR EWMP Group Review	10 days	Fri 5/26/17	Thu 6/8/17
53	Finalize Revised EWMP	10 days	Fri 6/9/17	Thu 6/22/17
54	Submit Final Revised EWMP	0 days	Thu 6/22/17	Thu 6/22/17
55	**Task 7. Project Management**	**263 days**	**Fri 7/1/16**	**Fri 6/30/17**
56	**Fiscal Year Complete**	**0 days**	**Fri 6/30/17**	**Fri 6/30/17**

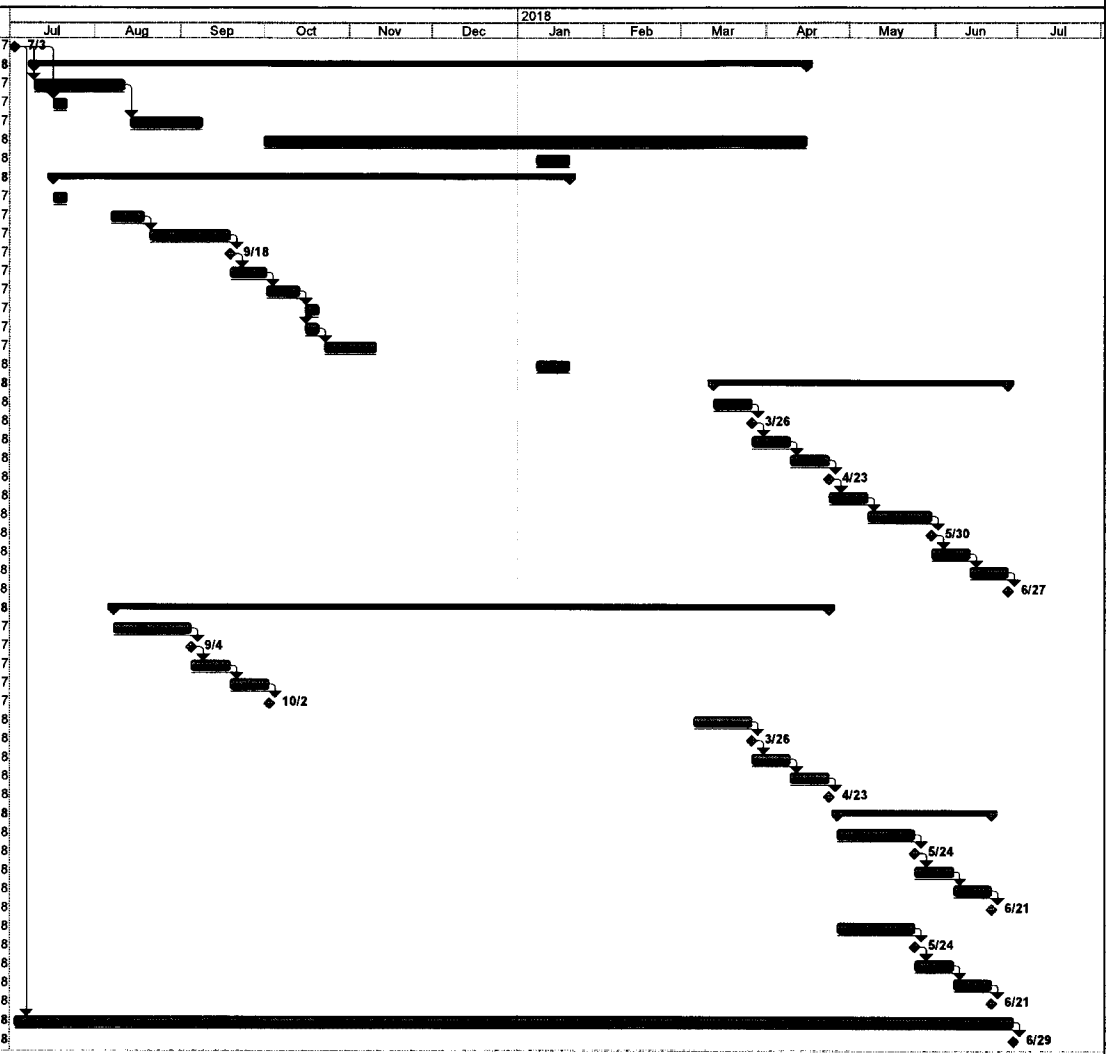


Project: CIMP_Schedule_FY2016-17.m
Date: Thu 4/30/15

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

Upper San Gabriel River EWMP Group
Coordinated Integrated Monitoring Program - Fiscal Year 2017-18

ID	Task Name	Duration	Start	Finish
1	Start Fiscal Year 17-18	0 days	Mon 7/3/17	Mon 7/3/17
2	**Task 2. TMDL Receiving Water and Stormwater Monitoring**	**202 days**	**Mon 7/10/17**	**Sun 4/15/18**
3	Install Monitoring Stations	25 days	Mon 7/10/17	Fri 8/11/17
4	Conduct Dry Weather Monitoring - 1st Event (3 sites)	5 days	Mon 7/17/17	Fri 7/21/17
5	Perform Hydrologic Analysis	20 days	Mon 8/14/17	Fri 9/8/17
6	Conduct Wet Weather Monitoring	142 days	Sun 10/1/17	Sun 4/15/18
7	Conduct Dry Weather Monitoring - 2nd Event (3 sites)	10 days	Mon 1/8/18	Fri 1/19/18
8	**Task 3. Non-Stormwater Outfall Screening and Monitoring**	**136 days**	**Mon 7/17/17**	**Fri 1/19/18**
9	Conduct Dry Weather Monitoring - 1st Event (5 outfalls)	5 days	Mon 7/17/17	Fri 7/21/17
10	Perform Source ID for Last 25% of Significant NSW	10 days	Mon 8/7/17	Fri 8/18/17
11	TM - Source Identification for Last 25%	21 days	Mon 8/21/17	Mon 9/18/17
12	Submit Draft TM	0 days	Mon 9/18/17	Mon 9/18/17
13	USGR EWMP Group Review	10 days	Tue 9/19/17	Sun 10/1/17
14	Finalize TM	10 days	Mon 10/2/17	Fri 10/13/17
15	Prepare Letter for Upstream Jurisdiction	5 days	Mon 10/16/17	Fri 10/20/17
16	Prepare Letter for Authorized Discharges as Pollutant Source	5 days	Mon 10/16/17	Fri 10/20/17
17	Delineate Drainage Areas and Update GIS Database	15 days	Mon 10/23/17	Fri 11/10/17
18	Conduct Dry Weather Monitoring - 2nd Event (10 outfalls)	10 days	Mon 1/8/18	Fri 1/19/18
19	**Task 4. CIMP Evaluation and Revision**	**78 days**	**Tue 3/13/18**	**Wed 6/27/18**
20	TM 2 - Water Quality Analysis	10 days	Tue 3/13/18	Mon 3/26/18
21	Submit Draft TM 2	0 days	Mon 3/26/18	Mon 3/26/18
22	USGR EWMP Group Review	10 days	Tue 3/27/18	Mon 4/9/18
23	Finalize TM 2	11 days	Tue 4/10/18	Mon 4/23/18
24	Submit Final TM 2	0 days	Mon 4/23/18	Mon 4/23/18
25	Letter to Regional Board to Revise CIMP	10 days	Tue 4/24/18	Mon 5/7/18
26	Prepare Revised CIMP	17 days	Tue 5/8/18	Wed 5/30/18
27	Submit Draft Revised CIMP	0 days	Wed 5/30/18	Wed 5/30/18
28	USGR EWMP Review	10 days	Thu 5/31/18	Wed 6/13/18
29	Finalize Revised CIMP	10 days	Thu 6/14/18	Wed 6/27/18
30	Submit Final Revised CIMP	0 days	Wed 6/27/18	Wed 6/27/18
31	**Task 5. Semi-Annual Reports**	**187 days**	**Tue 8/8/17**	**Mon 4/23/18**
32	Prepare Semi-Annual Report	20 days	Tue 8/8/17	Mon 9/4/17
33	Submit Draft Semi-Annual Report	0 days	Mon 9/4/17	Mon 9/4/17
34	USGR EWMP Group Review	10 days	Tue 9/5/17	Mon 9/18/17
35	Finalize Semi-Annual Report	11 days	Tue 9/19/17	Mon 10/2/17
36	Submit Final Semi-Annual Report	0 days	Mon 10/2/17	Mon 10/2/17
37	Prepare Semi-Annual Report	15 days	Tue 3/6/18	Mon 3/26/18
38	Submit Draft Semi-Annual Report	0 days	Mon 3/26/18	Mon 3/26/18
39	USGR EWMP Group Review	10 days	Tue 3/27/18	Mon 4/9/18
40	Finalize Semi-Annual Report	11 days	Tue 4/10/18	Mon 4/23/18
41	Submit Final Semi-Annual Report	0 days	Mon 4/23/18	Mon 4/23/18
42	**Task 6. Annual Reports**	**40 days**	**Fri 4/27/18**	**Thu 6/21/18**
43	Prepare Annual Report	20 days	Fri 4/27/18	Thu 5/24/18
44	Submit Draft Annual Report	0 days	Thu 5/24/18	Thu 5/24/18
45	USGR EWMP Group Review	10 days	Fri 5/25/18	Thu 6/7/18
46	Finalize Annual Report	10 days	Fri 6/8/18	Thu 6/21/18
47	Submit Final Annual Report	0 days	Thu 6/21/18	Thu 6/21/18
48	Prepare Revised EWMP	20 days	Fri 4/27/18	Thu 5/24/18
49	Submit Draft Revised EWMP	0 days	Thu 5/24/18	Thu 5/24/18
50	USGR EWMP Group Review	10 days	Fri 5/25/18	Thu 6/7/18
51	Finalize Revised EWMP	10 days	Fri 6/8/18	Thu 6/21/18
52	Submit Final Revised EWMP	0 days	Thu 6/21/18	Thu 6/21/18
53	**Task 7. Project Management**	**262 days**	**Mon 7/3/17**	**Fri 6/29/18**
54	**Fiscal Year Complete**	**0 days**	**Fri 6/29/18**	**Fri 6/29/18**



Project: CIMP_Schedule_FY2017-18
Date: Thu 4/30/15

Task | Split | Progress | Milestone | Summary | Project Summary | External Tasks | External Milestone | Deadline

CH2MHILL

Upper San Gabriel River EWMP Group Coordinated Integrated Monitoring Program Labor and Fee Estimate (FY 2015-16)

		CH2M HILL															KLI								
Task	Task Description	Project Principal	Project Manager	Engineer	Assistant Engineer	Field Technician	Senior GIS Specialist	CAD	Scenior Scientist	Scientist	Assistant Scientist	Admin Support	Total Labor Hours	Total Labor Effort	Permit Expenses	Lab Expenses	Task Manager	Scientist V	Assistant Scientist	Field Technician	Admin Support	KLI Labor Hours	KLI Labor Effort	Total Expenses	Total Effort
		$249	$190	$164	$138	$121	$189	$121	$210	$160	$138	$95					$164	$160	$138	$121	$95				
FISCAL YEAR 15-16																									
1	**TMDL Receiving Water Monitoring and Stormwater Monitoring**	**66**	**240**	**610**	**728**	**228**	**0**	**9**	**79**	**12**	**32**	**120**	**2,124**	**$325,541**	**$30,000**	**$35,730**	**49**	**94**	**229**	**614**	**30**	**1,016**	**$131,822**	**$197,552**	**$523,093**
1.1	Install Monitoring Stations (3 Sites)	40	118	360	360	16						18	912	$144,746		$6,881	19	10	190	240	30	489	$62,826	$69,707	$214,453
1.2	TM 1 - Sampling Team Activation Procedures	2	8	4	40			0				4	58	$8,574			4			6		10	$1,382	$1,382	$9,956
1.3	Update Health and Safety Plan	1	4	8	12								25	$3,977										$0	$3,977
1.4	Conduct Wet Weather Monitoring (1st Event - 3 sites)																							$0	
	Sampling	1	8	32	40	40						8	129	$18,137		$1,694	4	11	8	60	0	83	$10,780	$12,474	$30,611
	Prepare Wet Event Summary Report	1	4		12							2	19	$2,855			2	3		3		8	$1,171	$1,171	$4,026
1.5	Conduct Wet Weather Monitoring (2nd Event - 3 sites)																							$0	
	Sampling	1	8	32	40	40						8	129	$18,137		$1,694	4	11	8	60	0	83	$10,780	$12,474	$30,611
	Prepare Wet Event Summary Report	1	4		12							2	19	$2,855			2	3		3		8	$1,171	$1,171	$4,026
1.6	Conduct Wet Weather Monitoring (3rd Event - 3 sites)																							$0	
	Sampling	1	8	28	32	32						8	109	$15,409		$1,694	4	11	8	60	0	83	$10,780	$12,474	$27,883
	Prepare Wet Event Summary Report	1	4		12							2	19	$2,855			2	3		3		8	$1,171	$1,171	$4,026
1.7	Conduct Wet Weather Monitoring (4th Event - 3 sites)																							$0	
	Sampling	1	8	28	32	32						8	109	$15,409		$1,694	4	11	8	60	0	83	$10,780	$12,474	$27,883
	Prepare Wet Event Summary Report	1	4		12							2	19	$2,855			2	3		3		8	$1,171	$1,171	$4,026
1.8	False Start (1st Event)																							$0	
	Sampling		6	10	28	26						4	74	$10,170			0	5	6	58	0	69	$8,646	$8,646	$18,816
	Prepare False Start Memo		2	4								2	8	$1,226										$0	$1,226
1.9	False Start (2nd Event)																							$0	
	Sampling		6	10	28	26						4	74	$10,170			0	5	1	58	0	64	$7,956	$7,956	$18,126
	Prepare False Start Memo		2	4								2	8	$1,226										$0	$1,226
1.10	Conduct Dry Weather Monitoring (1st event - 3 sites)																							$0	
	Sampling	1	2	6	12	8						2	31	$4,427		$1,512						0	$0	$1,512	$5,939
	Prepare Dry Event Summary Report	1	2	6	8							4	21	$3,097								0	$0	$0	
1.11	Conduct Dry Weather Monitoring (2nd event - 3 sites)																							$0	
	Sampling	1	2	6	12	8						2	31	$4,427		$1,512						0	$0	$1,512	$5,939
	Prepare Dry Event Summary Report	1	2	6	8							4	21	$3,097								0	$0	$0	
1.12	Conduct Aquatic Toxicity Monitoring and TIE																							$0	
	Sampling Event 1		2						7				9	$1,850		$3,144								$3,144	$4,994
	Sampling Event 2		2						7				9	$1,850		$3,144								$3,144	$4,994
	Sampling Event 3 (including TIE/TRE)		2						65	12	32	12	123	$21,506		$12,761								$12,761	$34,267
1.13	Evaluate Sites for FY 16-17 Monitoring (3 Sites)																							$0	
	Evaluate Sites	8	24	50	4			9				4	99	$16,773			2	18				20	$3,208	$3,208	$19,981
	Obtain Permits	3	8	16	24							18	69	$9,913	$30,000									$30,000	$39,913
2	**Non-Stormwater Outfall Screening and Monitoring**	**5**	**34**	**40**	**88**	**40**	**16**	**0**	**0**	**0**	**0**	**20**	**243**	**$36,173**	**$0**	**$13,644**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**	**$13,644**	**$49,817**
2.1	Obtain and review as-builts from EWMP Group for Second 25% of Significant Outfalls (4 outfalls)												0	$0										$0	$0
2.2	Research NPDES Permitted Discharges for Second 25% of Significant Outfalls (4 outfalls)												0	$0										$0	$0
2.3	Perform Source ID for Second 25% of Significant NSW (4 outfalls)												0	$0										$0	$0
2.4	TM 3 - Source Identification for Second 25% of Significant Outfalls												0	$0										$0	$0

CH2MHILL

Upper San Gabriel River EWMP Group Coordinated Integrated Monitoring Program Labor and Fee Estimate (FY 2015-16)

		CH2M HILL															KLI								
Task	Task Description	Project Principal	Project Manager	Engineer	Assistant Engineer	Field Technician	Senior GIS Specialist	CAD	Scenior Scientist	Scientist	Assistant Scientist	Admin Support	Total Labor Hours	Total Labor Effort	Permit Expenses	Lab Expenses	Task Manager	Scientist V	Assistant Scientist	Field Technician	Admin Support	KLI Labor Hours	KLI Labor Effort	Total Expenses	Total Effort
		$249	$190	$164	$138	$121	$189	$121	$210	$160	$138	$95					$164	$160	$138	$121	$95				
2.5	Conduct Dry Weather Monitoring of Top 25% of Significant Outfalls (3 outfalls - 1st Event)																							$0	
	Dry Weather Monitoring	1	8	10	16	12						6	53	$7,639	$0	$6,822								$6,822	$14,461
	Prepare Post-Event Reports	1	6	8	12							4	31	$4,737										$0	$4,737
2.6	Conduct Dry Weather Monitoring of Top 25% of Significant Outfalls (3 outfalls - 2nd Event)																							$0	
	Dry Weather Monitoring	1	6	8	16	12						6	49	$6,931	$0	$6,822								$6,822	$13,753
	Prepare Post-Event Reports	1	4	8	12							4	29	$4,357										$0	$4,357
2.7	Prepare Letter for Upstream Jurisdiction (2 letters)		4		4								8	$1,312										$0	$1,312
2.8	Prepare Letter for Authorized Discharges As Pollutant Source (2 letters)		4		4								8	$1,312										$0	$1,312
2.9	Delineate Drainage Areas and Update GIS Database (4 Outfalls)	1	2	6	24	16	16						65	$9,885										$0	$9,885
3	**CIMP Evaluation and Revision**	**32**	**116**	**70**	**464**	**260**	**0**	**0**	**0**	**0**	**0**	**46**	**988**	**$141,350**	**$0**	**$0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**	**$0**	**$141,350**
3.1	TM 2 - Assessment of Water Quality of Receiving Water and Stormwater Discharges	4	16	56	120							8	204	$30,540										$0	$30,540
3.2	Prepare Letter for Modifying CIMP	1	2	6	8							8	25	$3,477										$0	$3,477
3.3	Prepare Revised CIMP	3	16	8	60							8	95	$14,139										$0	$14,139
3.4	Identify Studies Not Previously Identified in CIMP	8	16		16							8	48	$8,000										$0	$8,000
3.5	Conduct Studies	16	66		260	260						14	616	$85,194										$0	$85,194
4	**Semi-Annual Data Reports**	**2**	**4**	**8**	**24**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**42**	**$6,262**	**$0**	**$0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**	**$0**	**$6,262**
4.1	Semi-Annual Data Report - October 2015	1	2	4	12							2	21	$3,131										$0	$3,131
4.2	Semi-Annual Data Report - April 2016	1	2	4	12							2	21	$3,131										$0	$3,131
5	**Annual Reports**	**8**	**30**	**75**	**112**	**0**	**4**	**0**	**0**	**2**	**2**	**16**	**249**	**$38,320**	**$0**	**$0**	**3**	**21**	**6**	**0**	**0**	**30**	**$4,680**	**$4,680**	**$43,000**
5.1	Draft Annual Report - May 2016												0	$0			3	21	6	0	0	30	$4,680	$4,680	$4,680
5.2	Storm Water Control Measures	1	4	8	10							2	25	$3,891										$0	$3,891
5.3	Effectiveness Assessment of Storm Water Control Measures and Non-Stormwater Control Measures	1	2	8	24							2	37	$5,443										$0	$5,443
5.4	Integrated Monitoring Compliance Report	1	4	8	10							2	25	$3,891										$0	$3,891
5.5	Adaptive Management Strategies	2	12	36	40							2	92	$14,392										$0	$14,392
5.6	Revised/Final Annual Report - June 2016	1	2	4	10		4			2	2	4	29	$4,397										$0	$4,397
5.7	Municipal Action Level (MAL) Assessment Report	1	2	5	6							2	16	$2,467										$0	$2,467
5.8	MAL Action Plan	1	4	6	12							2	25	$3,839										$0	$3,839
6	**Project Management**	**48**	**96**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**24**	**168**	**$32,472**	**$0**	**$0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**	**$0**	**$32,472**
6.1	Meetings with USGR EWMP Group (4 meetings)	24	48									12	84	$16,236										$0	$16,236
6.2	Meetings with Other Watershed Management Groups (4 meetings)	24	48									12	84	$16,236										$0	$16,236
	GRAND TOTAL:	**161**	**520**	**803**	**1,416**	**528**	**20**	**9**	**79**	**14**	**34**	**230**	**3,814**	**$580,118**	**$30,000**	**$49,374**	**52**	**115**	**235**	**614**	**30**	**1,046**	**$136,502**	**$215,876**	**$795,994**

Notes:

Upper San Gabriel River EWMP Group Coordinated Integrated Monitoring Program Labor and Fee Estimate (FY 2016-17)

CH2MHILL.

		CH2M HILL															KLI								
Task	Task Description	Project Principal	Project Manager	Engineer	Assistant Engineer	Field Technician	Senior GIS Specialist	CAD	Scenior Scientist	Scientist	Assistant Scientist	Admin Support	Total Labor Hours	Total Labor Effort	Permit Expenses	Lab Expenses	Task Manager	Scientist V	Assistant Scientist	Field Technician	Admin Support	KLI Labor Hours	KLI Labor Effort	Total Expenses	Total Effort
		$249	$190	$164	$138	$121	$189	$121	$210	$160	$138	$95					$164	$160	$138	$121	$95				
FISCAL YEAR 16-17																									
1	**TMDL Receiving Water Monitoring and Stormwater Monitoring**	**46**	**195**	**610**	**694**	**296**	**0**	**9**	**79**	**12**	**32**	**156**	**2,129**	**$318,967**	**$30,000**	**$106,595**	**45**	**68**	**246**	**740**	**68**	**1,167**	**$148,208**	**$284,803**	**$603,770**
1.1	Install Monitoring Stations (3 Sites)	20	96	300	300	0						14	730	$115,150		$10,653	19	4	190	196	68	477	$60,152	$70,805	$185,955
1.2	Update Health and Safety Plan												0	$0										$0	$0
1.3	Conduct Wet Weather Monitoring (1st Event - 6 sites)																							$0	
	Sampling (Receiving Water - 3 sites)	1	4	28	32	32						8	105	$14,649		$6,939	2	4	8	60	0	74	$9,332	$16,271	$30,920
	Prepare Wet Event Summary Report (RW -3 sites)	1	2		6							4	13	$1,837			1	1.5		1.5		4	$586	$586	$2,423
	Sampling (Stormwater - 3 sites)	1	4	28	32	32						8	105	$14,649		$7,995	2	4	8	60	0	74	$9,332	$17,327	$31,976
	Prepare Wet Event Summary Report (SW - 3 sites)		2		6							4	12	$1,588			1	1.5		1.5		4	$586	$586	$2,174
1.4	Conduct Wet Weather Monitoring (2nd Event - 6 sites)																							$0	
	Sampling (Receiving Water - 3 sites)	1	3	28	32	32						8	104	$14,459		$6,939	2	4	8	60	0	74	$9,332	$16,271	$30,730
	Prepare Wet Event Summary Report (RW -3 sites)	1	2		6							4	13	$1,837			1	1.5		1.5		4	$586	$586	$2,423
	Sampling (Stormwater - 3 sites)	1	3	28	32	32						8	104	$14,459		$7,995	2	4	8	60	0	74	$9,332	$17,327	$31,786
	Prepare Wet Event Summary Report (SW - 3 sites)		2		6							4	12	$1,588			1	1.5		1.5		4	$586	$586	$2,174
1.5	Conduct Wet Weather Monitoring (3rd Event - 6 sites)																							$0	
	Sampling (Receiving Water - 3 sites)	1	3	28	32	32						8	104	$14,459		$6,939	2	4	8	60	0	74	$9,332	$16,271	$30,730
	Prepare Wet Event Summary Report (RW -3 sites)	1	2		6							4	13	$1,837			1	1.5		1.5		4	$586	$586	$2,423
	Sampling (Stormwater - 3 sites)	1	3	28	32	32						8	104	$14,459		$7,995	2	4	8	60	0	74	$9,332	$17,327	$31,786
	Prepare Wet Event Summary Report (SW - 3 sites)		2		6							4	12	$1,588			1	1.5		1.5		4	$586	$586	$2,174
1.6	Conduct Wet Weather Monitoring (4th Event - 3 sites)																							$0	
	Sampling (Receiving Water - 3 sites)	1	3	28	32	32						8	104	$14,459		$6,939	4	4	8	60	0	76	$9,660	$16,599	$31,058
	Prepare Wet Event Summary Report (RW -3 sites)	1	4		10							4	19	$2,769			2	3		3		8	$1,171	$1,171	$3,940
1.7	False Start (1st Event)																							$0	
	Sampling		6	10	28	28						4	76	$10,412			0	3	0	56	0	59	$7,256	$7,256	$17,668
	Prepare False Start Memo		1	2								2	5	$708										$0	$708
1.8	False Start (2nd Event)																							$0	
	Sampling		6	10	28	28						4	76	$10,412			0	3	0	56	0	59	$7,256	$7,256	$17,668
	Prepare False Start Memo		1	2								2	5	$708										$0	$708
1.9	Conduct Dry Weather Monitoring (1st event - 3 sites)																							$0	
	Sampling	1	2	6	12	8						2	31	$4,427	$0	$6,720						0	$0	$6,720	$11,147
	Prepare Dry Event Summary Report	1	2	6	8							4	21	$3,097								0	$0	$0	
1.10	Conduct Dry Weather Monitoring (2nd event - 3 sites)																							$0	
	Sampling	1	2	6	12	8						2	31	$4,427	$0	$6,720						0	$0	$6,720	$11,147
	Prepare Dry Event Summary Report	1	2	6	8							4	21	$3,097								0	$0	$0	
1.11	Conduct Aquatic Toxicity Monitoring and TIE																							$0	
	Sampling Event 1		2						7				9	$1,850		$3,144								$3,144	$4,994
	Sampling Event 2		2						7				9	$1,850		$3,144								$3,144	$4,994
	Sampling Event 3 (including TIE/TRE)		2						65	12	32	12	123	$21,506		$24,473								$24,473	$45,979
1.12	Evaluate Sites for FY 17-18 Monitoring (3 Sites)																							$0	
	Evaluate Sites	8	24	50	4			9				4	99	$16,773	$0		2	18				20	$3,208	$3,208	$19,981
	Obtain Permits	3	8	16	24							18	69	$9,913	$30,000									$30,000	$39,913
2	**Non-Stormwater Outfall Screening and Monitoring**	**17**	**56**	**56**	**170**	**66**	**24**	**0**	**0**	**0**	**0**	**36**	**425**	**$63,459**	**$0**	**$23,764**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**	**$23,764**	**$87,223**
2.1	Obtain and review as-builts from EWMP Group for Last 50% of Significant Outfalls (7 outfalls total: cost of 5 outfalls included in previous task order and 2 outfalls included here)	2	4	6	20	10							42	$6,212										$0	$6,212

Upper San Gabriel River EWMP Group Coordinated Integrated Monitoring Program Labor and Fee Estimate (FY 2016-17)

CH2MHILL.

		CH2M HILL															KLI								
Task	Task Description	Project Principal	Project Manager	Engineer	Assistant Engineer	Field Technician	Senior GIS Specialist	CAD	Scenior Scientist	Scientist	Assistant Scientist	Admin Support	Total Labor Hours	Total Labor Effort	Permit Expenses	Lab Expenses	Task Manager	Scientist V	Assistant Scientist	Field Technician	Admin Support	KLI Labor Hours	KLI Labor Effort	Total Expenses	Total Effort
		$249	$190	$164	$138	$121	$189	$121	$210	$160	$138	$95					$164	$160	$138	$121	$95				
2.2	Research NPDES Permitted Discharges for Last 50% of Significant Outfalls (7 total; 5 in previous task order 2 outfalls included here)		2	4	6		4						16	$2,620										$0	$2,620
2.3	Perform Source ID for Second 25% of Significant NSW (4 outfalls - cost included in previous task order)												0	$0										$0	$0
2.4	TM 3 - Source Identification for Second 25% of Significant Outfalls	4	8	16	40		4					8	80	$12,176										$0	$12,176
2.5	Conduct Dry Weather Monitoring of Unaddressed Significant Outfalls (5 outfalls - 1st event)																							$0	
	Dry Weather Monitoring	4	10	12	24	20						10	80	$11,546	$0	$11,882								$11,882	$23,428
	Prepare Post-Event Reports	1	6		12							4	23	$3,425										$0	$3,425
2.6	Conduct Dry Weather Monitoring of Unaddressed Significant Outfalls (5 outfalls - 2nd event)																							$0	
	Dry Weather Monitoring	4	10	12	24	20						10	80	$11,546	$0	$11,882								$11,882	$23,428
	Prepare Post-Event Reports	1	6		12							4	23	$3,425										$0	$3,425
2.7	Prepare Letter for Upstream Jurisdiction (2 letters)		4		4								8	$1,312										$0	$1,312
2.8	Prepare Letter for Authorized Discharges As Pollutant Source (2 letters)		4		4								8	$1,312										$0	$1,312
2.9	Delineate Drainage Areas and Update GIS Database (4 Outfalls)	1	2	6	24	16	16						65	$9,885										$0	$9,885
3	**CIMP Evaluation and Revision**	**32**	**88**	**116**	**254**	**48**	**0**	**0**	**0**	**0**	**0**	**40**	**578**	**$88,372**	**$0**	**$0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**	**$0**	**$88,372**
3.1	TM 4 - Assessment of Water Quality of Receiving Water and Stormwater Discharges	4	22	62	102							8	198	$30,180										$0	$30,180
3.2	Prepare Letter for Modifying CIMP	1	2	6	8							8	25	$3,477										$0	$3,477
3.3	Prepare Revised CIMP	3	16	48	80							8	155	$23,459										$0	$23,459
3.4	Identify Studies Not Previously Identified in CIMP	8	16		16							8	48	$8,000										$0	$8,000
3.5	Conduct Studies	16	32		48	48						8	152	$23,256										$0	$23,256
4	**Semi-Annual Data Reports**	**2**	**4**	**8**	**24**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**42**	**$6,262**	**$0**	**$0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**	**$0**	**$6,262**
4.1	Semi-Annual Data Report - October 2015	1	2	4	12							2	21	$3,131										$0	$3,131
4.2	Semi-Annual Data Report - April 2016	1	2	4	12							2	21	$3,131										$0	$3,131
5	**Annual Reports**	**14**	**50**	**116**	**182**	**0**	**8**	**0**	**0**	**2**	**2**	**20**	**394**	**$61,134**	**$0**	**$0**	**3**	**21**	**10**	**0**	**0**	**34**	**$5,232**	**$5,232**	**$66,366**
5.1	Draft Annual Report - May 2016												0	$0			3	21	10	0	0	34	$5,232	$5,232	$5,232
5.2	Watershed Summary Information and Storm Water Control Measures	4	6	8	40							2	60	$9,158										$0	$9,158
5.3	Effectiveness Assessment of Storm Water and Non-Storm Water Control Measures	1	2	4	16							2	25	$3,683										$0	$3,683
5.4	Integrated Monitoring Compliance Report	1	5	10	12							2	30	$4,685										$0	$4,685
5.5	Adaptive Management Strategies	2	12	36	40							2	92	$14,392										$0	$14,392
5.6	Supporting Data and Information	1	1	3	6		4					2	17	$2,705										$0	$2,705
5.7	Revised/Final Annual Report - June 2016	1	2	4	10		4			2	2	4	29	$4,397										$0	$4,397
5.8	Municipal Action Level (MAL) Assessment Report	1	2	5	6							2	16	$2,467										$0	$2,467
5.9	MAL Action Plan	1	4	6	12							2	25	$3,839										$0	$3,839
5.10	Prepare Revised EWMP	2	16	40	40							2	100	$15,808										$0	$15,808
6	**Project Management**	**48**	**96**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**24**	**168**	**$32,472**	**$0**	**$0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**	**$0**	**$32,472**
6.1	Meetings with USGR EWMP Group (4 meetings)	24	48									12	84	$16,236										$0	$16,236
6.2	Meetings with Other Watershed Management Groups (4 meetings)	24	48									12	84	$16,236										$0	$16,236
	GRAND TOTAL:	**159**	**489**	**906**	**1,324**	**410**	**32**	**9**	**79**	**14**	**34**	**280**	**3,736**	**$570,666**	**$30,000**	**$130,359**	**48**	**89**	**256**	**740**	**68**	**1,201**	**$153,440**	**$313,799**	**$884,465**

Upper San Gabriel River EWMP Group Coordinated Integrated Monitoring Program Labor and Fee Estimate (FY 2017-18)

CH2MHILL

Task	Task Description	Number of Events	CH2M HILL														KLI								
			Project Principal	Project Manager	Engineer	Assistant Engineer	Field Technician	Senior GIS Specialist	CAD	Scenior Scientist	Scientist	Assistant Scientist	Admin Support	Total Labor Hours	Total Labor Effort	Lab Expenses	Task Manager	Scientist V	Assistant Scientist	Field Technician	Admin Support	KLI Labor Hours	KLI Labor Effort	Total Expenses	Total Effort
		Billing Rates	$249	$190	$164	$138	$121	$189	$121	$210	$160	$138	$95				$164	$160	$138	$121	$95				
FISCAL YEAR 17-18																									
1	**TMDL Receiving Water Monitoring and Stormwater Monitoring**		**32**	**177**	**712**	**792**	**404**	**0**	**0**	**79**	**12**	**32**	**144**	**2,384**	**$353,152**	**$128,160**	**51**	**49**	**266**	**798**	**30**	**1,194**	**$152,320**	**$280,480**	**$633,632**
1.1	Install Monitoring Stations (3 Sites)	3	20	96	340	320	12						16	804	$126,112	$13,849	27	4	210	246	30	517	$66,664	$80,513	$206,625
1.2	Update Health and Safety Plan													0	$0									$0	$0
1.3	Conduct Wet Weather Monitoring (1st Event - 9 sites)																							$0	
	Sampling (Receiving Water - 3 sites)		1	3	28	32	32						8	104	$14,459	$6,961	1	3	8	60	0	72	$9,008	$15,969	$30,428
	Prepare Wet Event Summary Report (RW -3 sites)		1	2	5	7							4	19	$2,795		1	1		1		3	$445	$445	$3,240
	Sampling (Stormwater - 6 sites)			7	56	64	64						8	199	$27,850	$14,089	3	5	8	60	0	76	$9,656	$23,745	$51,595
	Prepare Wet Event Summary Report (SW - 6 sites)			2	5	7							4	18	$2,546		1	2		2		5	$726	$726	$3,272
1.4	Conduct Wet Weather Monitoring (2nd Event - 9 sites)																							$0	
	Sampling (Receiving Water - 3 sites)		1	3	28	32	32						8	104	$14,459	$6,961	1	3	8	60	0	72	$9,008	$15,969	$30,428
	Prepare Wet Event Summary Report (RW -3 sites)		1	2	5	7							4	19	$2,795		1	1		1		3	$445	$445	$3,240
	Sampling (Stormwater - 6 sites)			7	56	64	64						8	199	$27,850	$14,089	3	5	8	60	0	76	$9,656	$23,745	$51,595
	Prepare Wet Event Summary Report (SW - 6 sites)			2	5	7							4	18	$2,546		1	2		2		5	$726	$726	$3,272
1.5	Conduct Wet Weather Monitoring (3rd Event - 9 sites)																							$0	
	Sampling (Receiving Water - 3 sites)		1	3	28	32	32						8	104	$14,459	$6,961	1	3	8	60	0	72	$9,008	$15,969	$30,428
	Prepare Wet Event Summary Report (RW -3 sites)		1	2	5	7							4	19	$2,795		1	1		1		3	$445	$445	$3,240
	Sampling (Stormwater - 6 sites)			7	56	64	64						8	199	$27,850	$14,089	3	5	8	60	0	76	$9,656	$23,745	$51,595
	Prepare Wet Event Summary Report (SW - 6 sites)			2	5	7							4	18	$2,546		1	2		2		5	$726	$726	$3,272
1.6	Conduct Wet Weather Monitoring (4th Event - 3 sites)																							$0	
	Sampling		1	3	28	32	32						8	104	$14,459	$6,961	4	3	8	60	0	75	$9,500	$16,461	$30,920
	Prepare Wet Event Summary Report		1	4	8	12							4	29	$4,357		2	3		3		8	$1,171	$1,171	$5,528
1.7	False Start (1st Event)																							$0	
	Sampling			6	10	28	28						4	76	$10,412		0	3	0	60	0	63	$7,740	$7,740	$18,152
	Prepare False Start Memo			2	4								2	8	$1,226									$0	$1,226
1.8	False Start (2nd Event)																							$0	
	Sampling			6	10	28	28						4	76	$10,412		0	3	0	60	0	63	$7,740	$7,740	$18,152
	Prepare False Start Memo			2	4								2	8	$1,226									$0	$1,226
1.9	Conduct Dry Weather Monitoring (1st event - 3 sites)																							$0	
	Sampling	3	1	2	6	12	8						6	35	$4,807	$6,720						0	$0	$6,720	$11,527
	Prepare Dry Event Summary Report	1	1	2	6	8							4	21	$3,097							0	$0	$0	
1.10	Conduct Dry Weather Monitoring (2nd event - 3 sites)																							$0	
	Sampling	3	1	2	6	12	8						6	35	$4,807	$6,720						0	$0	$6,720	$11,527
	Prepare Dry Event Summary Report	1	1	4	8	10							4	27	$4,081							0	$0	$0	
1.11	Conduct Aquatic Toxicity Monitoring and TIE																							$0	
	Sampling Event 1			2						7				9	$1,850	$3,144								$3,144	$4,994
	Sampling Event 2			2						7				9	$1,850	$3,144								$3,144	$4,994
	Sampling Event 3 (including TIE/TRE)			2						65	12	32	12	123	$21,506	$24,473								$24,473	$45,979
2	**Non-Stormwater Outfall Screening and Monitoring**		**20**	**84**	**137**	**402**	**252**	**39**	**0**	**0**	**0**	**0**	**54**	**988**	**$141,877**	**$23,764**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**	**$23,764**	**$165,641**
2.1	Perform Source ID for Last 50% of Significant NSW outfalls (7 outfalls: 5 included in previous contract & 2 outfalls included here)		2	8	16	48	48	3						125	$17,641									$0	$17,641
2.2	TM 5 - Source Identification for Last 50% of Significant Outfalls		6	12	20	64		8					8	118	$18,158									$0	$18,158
2.3	Conduct Dry Weather Monitoring of Unaddressed Significant Outfalls (10 outfalls - 1st event)																							$0	
	Dry Weather Monitoring	10	4	20	40	160	140						20	384	$52,276	$11,882								$11,882	$64,158
	Prepare Post-Event Reports	1	1	6	10	16							4	37	$5,617									$0	$5,617

Upper San Gabriel River EWMP Group Coordinated Integrated Monitoring Program Labor and Fee Estimate (FY 2017-18)

CH2MHILL.

Task	Task Description	Number of Events	CH2M HILL														KLI							Total Expenses	Total Effort
			Project Principal	Project Manager	Engineer	Assistant Engineer	Field Technician	Senior GIS Specialist	CAD	Scenior Scientist	Scientist	Assistant Scientist	Admin Support	Total Labor Hours	Total Labor Effort	Lab Expenses	Task Manager	Scientist V	Assistant Scientist	Field Technician	Admin Support	KLI Labor Hours	KLI Labor Effort		
		Billing Rates	$249	$190	$164	$138	$121	$189	$121	$210	$160	$138	$95				$164	$160	$138	$121	$95				
2.4	Conduct Dry Weather Monitoring of Unaddressed Significant Outfalls (10 outfalls - 2nd event)																							$0	
	Dry Weather Monitoring	10	4	20	30	48	36						18	156	$22,406	$11,882								$11,882	$34,288
	Prepare Post-Event Reports	1	1	6	10	16							4	37	$5,617									$0	$5,617
2.5	Prepare Letter for Upstream Jurisdiction (2 letters)			4		4								8	$1,312									$0	$1,312
2.6	Prepare Letter for Authorized Discharges As Pollutant Source (2 letters)			4		4								8	$1,312									$0	$1,312
2.7	Delineate Drainage Areas and Update GIS Database (7 Outfalls)		2	4	11	42	28	28						115	$17,538									$0	$17,538
3	**CIMP Evaluation and Revision**		**38**	**120**	**128**	**320**	**94**	**0**	**0**	**0**	**0**	**0**	**40**	**740**	**$112,588**	**$0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**	**$0**	**$112,588**
3.1	TM 6 - Assessment of Water Quality of Receiving Water and Stormwater Discharges		4	26	74	122							8	234	$35,668									$0	$35,668
3.2	Prepare Letter for Modifying CIMP		1	2	6	8							8	25	$3,477									$0	$3,477
3.3	Prepare Revised CIMP		3	16	48	80							8	155	$23,459									$0	$23,459
3.4	Identify Studies Not Previously Identified in CIMP		8	16		16							8	48	$8,000									$0	$8,000
3.5	Conduct Studies		22	60		94	94						8	278	$41,984									$0	$41,984
4	**Semi-Annual Data Reports**		**2**	**4**	**8**	**24**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**42**	**$6,262**	**$0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**	**$0**	**$6,262**
4.1	Semi-Annual Data Report - October 2015		1	2	4	12							2	21	$3,131									$0	$3,131
4.2	Semi-Annual Data Report - April 2016		1	2	4	12							2	21	$3,131									$0	$3,131
5	**Annual Reports**		**11**	**50**	**120**	**154**	**0**	**8**	**0**	**0**	**2**	**2**	**20**	**367**	**$57,179**	**$0**	**3**	**21**	**12**	**0**	**0**	**36**	**$5,508**	**$5,508**	**$62,687**
5.1	Draft Annual Report - May 2016													0	$0		3	21	12	0	0	36	$5,508	$5,508	$5,508
5.2	Storm Water Control Measures		1	4	8	10							2	25	$3,891									$0	$3,891
5.3	Effectiveness Assessment of Storm Water and Non-Stormwater Control Measures		1	3	6	15							2	27	$4,063									$0	$4,063
5.4	Integrated Monitoring Compliance Report		1	6	12	15							2	36	$5,617									$0	$5,617
5.5	Adaptive Management Strategies		2	12	36	40							2	92	$14,392									$0	$14,392
5.6	Supporting Data and Information		1	1	3	6		4					2	17	$2,705									$0	$2,705
5.7	Revised/Final Annual Report - June 2016		1	2	4	10		4			2	2	4	29	$4,397									$0	$4,397
5.8	Municipal Action Level (MAL) Assessment Report		1	2	5	6							2	16	$2,467									$0	$2,467
5.9	MAL Action Plan		1	4	6	12							2	25	$3,839									$0	$3,839
5.1	Prepare Revised EWMP		2	16	40	40							2	100	$15,808									$0	$15,808
6	**Project Management**		**64**	**96**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**24**	**184**	**$36,456**	**$0**	**0**	**0**	**0**	**0**	**0**	**0**	**$0**	**$0**	**$36,456**
6.1	Meetings with USGR EWMP Group (4 meetings)	4	32	48									12	92	$18,228									$0	$18,228
6.2	Meetings with Other Watershed Management Groups (4 meetings)	4	32	48									12	92	$18,228									$0	$18,228
	GRAND TOTAL:		**167**	**531**	**1,105**	**1,692**	**750**	**47**	**0**	**79**	**14**	**34**	**286**	**4,705**	**$707,514**	**$151,924**	**54**	**70**	**278**	**798**	**30**	**1,230**	**$157,828**	**$309,752**	**$1,017,266**

Upper San Gabriel River EWMP Group

June 2014
Rev. May 2015

LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD

Revised Coordinated Integrated Monitoring Program (CIMP)

Prepared for:

Upper San Gabriel River Enhanced Watershed Management Program Group
(County of Los Angeles, Los Angeles County Flood Control District, Cities of Baldwin Park, Covina, Glendora, Industry, La Puente, and South El Monte)

Exhibit D, 75 Pages

REVISED COORDINATED INTEGRATED MONITORING PROGRAM (CIMP)

June 2014
Rev. May 2015

Prepared For:

Upper San Gabriel River Enhanced Watershed Management Program Group

County of Los Angeles
Los Angeles County Flood Control District
City of Baldwin Park
City of Covina
City of Glendora
City of Industry
City of La Puente
City of South El Monte

Prepared By:

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In Conjunction with Larry Walker Associates, Paradigm Environmental, and Tetra Tech

Executive Summary

The Upper San Gabriel River Enhanced Watershed Management Program Group (EWMP Group) is comprised of the County of Los Angeles, Los Angeles County Flood Control District (LACFCD), and the Cities of Baldwin Park, Covina, Glendora, Industry, and La Puente (Group Members). Group Members started meeting in early 2013 to establish the EWMP Group and collaboratively develop a Coordinated Integrated Monitoring Program (CIMP) and an Enhanced Watershed Management Program (EWMP) for the Upper San Gabriel River Watershed. The EWMP Group formalized their collaboration and commitment to completing the program development in a Memorandum of Understanding on October 24, 2013.

The EWMP Group submitted the Draft CIMP in June 2014, and revised the CIMP in May 2015 to address comments from the Los Angeles Regional Water Quality Control Board (Regional Board), dated February 6, 2015. Subsequently, the City of South El Monte indicated in a letter to the Regional Board, dated February 26, 2015 of its intention to join the CIMP. As a result, the EWMP Group agreed to include South El Monte in the Revised CIMP.

This document presents the CIMP, which is the EWMP Group's approach to an effective and well-thought-out monitoring program. Existing water quality data in the San Gabriel River Watershed Management Area is sparse, and a goal of the CIMP is to provide a more complete picture of the receiving water conditions in the EWMP area. The geology of the San Gabriel River Valley provides rapid infiltration of water, and the EWMP area is likely hydraulically disconnected from the downstream water bodies during the dry weather. Another goal of the CIMP is to determine when and where the discontinuity occurs. Additionally, the EWMP Group has also been working closely with other watershed management groups and reached out to individual cities to ensure our monitoring programs are truly coordinated and integrated across the watershed. The collaborating groups and individual cities are all each contributing data and/or cost sharing with all groups in the watershed, avoiding duplicative monitoring efforts. As a result of the unprecedented collaboration among the groups, our CIMPs together provide a comprehensive and consistent long-term monitoring plan for the watershed.

The CIMP fulfills the Monitoring and Reporting Program (MRP) requirements of the National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit Order No. R4-2012-0175 (Permit). The Permit was adopted by the Regional Board November 8, 2012, and became effective December 28, 2012. The EWMP, containing customized strategies, control measures, and best management practices (BMPs) for the EWMP Group, is currently under development and will be presented in a separate document according to the Permit schedule.

RECEIVING WATER MONITORING

Receiving water monitoring is designed to assess whether water quality objectives (WQOs) are being met in water bodies and if beneficial uses are being supported. The EWMP Group proposes two types of receiving water monitoring:

- **Long-Term Assessment** – Long-Term Assessment (LTA) monitoring is intended to determine if receiving water limitations (RWL) are achieved, assess trends in pollutant

concentrations over time, and to determine whether designated uses are supported. LTA sites include:

- Existing San Gabriel River Mass Emission Station (S14)
- Existing Coyote Creek Mass Emission Station (S13)

- **Total Maximum Daily Load (TMDL)** – TMDL monitoring is conducted to evaluate attainment of or progress in attaining the waste load allocations (WLAs). New TMDL monitoring stations will be installed at the following locations:
  - San Jose Creek Reach 1 at the Los Angeles County Sanitation Districts (LACSD) R10 site upstream from the San Jose Creek Water Reclamation Plant (WRP) discharge.
  - Walnut Creek near the confluence with San Gabriel River
  - San Gabriel River Reach 4 at Ramona Boulevard

TMDL monitoring also will be performed in the following location:

- Puddingstone Reservoir

In addition, the EWMP Group will be coordinating on the receiving water monitoring with other watershed management program groups and the LACSD to share monitoring data in the San Gabriel River Watershed Management Area. The EWMP Group may use the data in evaluating its progress in meeting the goals and requirements of the Permit.

STORMWATER OUTFALL MONITORING

Stormwater outfall monitoring is intended for determining if a Group Member's MS4 system is causing or contributing to water quality issues observed in the receiving water. The EWMP Group proposes six stormwater outfall monitoring sites, one per Group Member. The sites were selected to be representative of the land uses within each Group Member's jurisdiction. Parameters to be monitored during the three events at each stormwater outfall monitoring site are based on the monitoring requirements of the water body to which they discharge, as well as downstream water bodies, where applicable. Monitoring at these outfalls will be used to assess compliance with water quality based effluent limitations (WQBELs), TMDL WLAs, and whether the MS4 may be causing or contributing to observed exceedances of RWLs.

NON-STORMWATER OUTFALL SCREENING AND MONITORING

The non-stormwater outfall screening and monitoring program is focused on dry weather discharges from major outfalls to receiving waters. The program serves to provide an assessment on whether non-stormwater discharges are potentially impacting the receiving water and whether significant non-stormwater discharges are allowable. Three screening events will be conducted within the EWMP area beginning in summer 2014. Visual observations gathered from the screening events, such as size, estimated flow, flow characteristics, and receiving water conditions, will be used to determine and prioritize significant non-stormwater discharges. In the order of prioritization, sources will be investigated, and monitoring sites will be determined. Monitored parameters will depend upon the receiving water on which the non-stormwater outfall site is located.

NEW DEVELOPMENT/RE-DEVELOPMENT EFFECTIVENESS TRACKING

Group Members have developed mechanisms for tracking information related to new and redevelopment projects that are subject to post-construction BMP requirements in Part VI.D.7 of the Permit. The data will be used to assess the effectiveness of the low-impact development (LID) requirements for land development and to fulfill reporting requirements. Although the data requirements are clear, the procedures for reviewing projects, tracking data, and reporting are different for each jurisdiction and may even be different across departments within the same jurisdiction. As such, this CIMP provides general details on the requirements and approaches related to the new and redevelopment tracking requirements. Each Group Member may modify the general requirements as appropriate to reflect their own jurisdictional specific practices.

REGIONAL STUDIES

Only one regional study is identified in the MRP: Southern California Stormwater Monitoring Coalition (SMC). The MRP states that each Permittee shall be responsible for supporting the monitoring described at the sites within the watershed(s) that overlap with the Permittee's jurisdictional area. The LACFCD will continue its participation in the SMC Regional Bioassessment Monitoring Program on behalf of the Group Members.

ADAPTIVE MANAGEMENT

The monitoring specified in the CIMP is, in part, dynamic. An adaptive management process will be utilized on an annual basis to evaluate this CIMP and update the monitoring requirements as necessary. Monitoring data from the CIMP will tie into the EWMP by providing feedback on water quality changes resulting from control measures implemented by the Group Members.

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LIST OF ACRONYMS AND ABBREVIATIONS

Ag/Nur	Agricultural and nursery
Bioassessment Program	Regionally Consistent and Integrated Freshwater Stream Bioassessment Monitoring Program
BMP	Best Management Practice
BPA	Basin Plan Amendment
C. dubia	Ceriodaphnia dubia
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CIMP	Coordinated Integrated Monitoring Program
Com/Ind	Commercial and industrial
County	County of Los Angeles
DDT	Dichloro-diphenyl-trichloroethane
DO	Dissolved Oxygen
EC	Electrical Conductivity
E. coli	Escherichia coli
ESGV	East San Gabriel Valley
EWMP	Enhanced Watershed Management Program
EWMP Group	Upper San Gabriel River EWMP Group
GIS	Geographic Information System
Group Members	County of Los Angeles, LACFCD, and Cities of Baldwin Park, Covina, Glendora, Industry, and La Puente
Hg	Mercury
HUC	Hydrologic Unit Code
IC/ID	Illicit Connection/Illicit Discharge
LACDPW	Los Angeles County Department of Public Works
LACFCD	Los Angeles County Flood Control District
LACSD	Los Angeles County Sanitation District
LID	Low Impact Development
LSGR	Lower San Gabriel River
LTA	Long Term Assessment
MAL	Municipal Action Level
MCM	Minimum Control Measure
MRP	Monitoring and Reporting Program
MS4	Municipal Separate Storm Sewer System
NAL	Non-Stormwater Action Level
NPDES	National Pollutant Discharge Elimination System
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
QAPP	Quality Assurance Project Plan (p. 2-1)
Permit	NPDES MS4 Permit Order No. R4-2010-0175
Regional Board	Los Angeles Regional Water Quality Control Board
Res	Residential
RWL	Receiving Water Limitation
S13	Coyote Creek Mass Emission Station
S14	San Gabriel River Mass Emission Station

SGR	San Gabriel River
SJC	San Jose Creek
SMC	Stormwater Monitoring Coalition
SQO	Sediment Quality Objectives
SUSMP	Standard Urban Stormwater Mitigation Program
TDS	Total Dissolved Solids
TIE	Toxicity Identification Evaluation
TMDL	Total Maximum Daily Load
TSS	Total Suspended Solids
USGR	Upper San Gabriel River
USEPA	United States Environmental Protection Agency
WBPC	Water Body-Pollutant Combination
WLA	Waste Load Allocation
WMP	Watershed Management Program
WQBEL	Water Quality Based Effluent Limitation
WQO	Water Quality Objective
WRP	Water Reclamation Plant

1 Introduction

The National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit No. R4-2012-0175 (Permit) was adopted November 8, 2012 by the Los Angeles Regional Water Quality Control Board (Regional Board) and became effective December 28, 2012. The purpose of the Permit is to ensure the MS4s in Los Angeles County are not causing or contributing to exceedances of water quality objectives set to protect the beneficial uses in the receiving waters. Included as **Attachment E** to the Permit are requirements for a Monitoring and Reporting Program (MRP). The stated primary objectives for the MRP, listed in Part II.A.1 of the MRP, are as follows:

1. Assess the chemical, physical, and biological impacts of discharges from the MS4 on receiving waters.
2. Assess compliance with receiving water limitations (RWLs) and water quality-based effluent limitations (WQBELs) established to implement Total Maximum Daily Load (TMDL) wet weather and dry weather waste load allocations (WLAs).
3. Characterize pollutant loads in MS4 discharges.
4. Identify sources of pollutants in MS4 discharges.
5. Measure and improve the effectiveness of pollutant controls implemented under the Permit.

Permittees of the MS4 Permit have the option to develop a Coordinated Integrated Monitoring Program (CIMP) that may be used to specify alternative approaches for meeting the primary objectives. Additionally, the CIMP is the vehicle to modify TMDL monitoring requirements and other historical monitoring program requirements, to collaborate on a watershed scale, and provide consistent and comparable water quality observations throughout the watershed. The attachments and appendices to this CIMP describe additional background information and detail specific analytical and monitoring procedures that will be used to implement this CIMP. This CIMP meets the requirements of the MS4 Permit, including TMDL monitoring requirements.

1.1 UPPER SAN GABRIEL RIVER ENHANCED WATERSHED MANAGEMENT PLAN AREA

The San Gabriel River receives drainage from a 682-square mile area of eastern Los Angeles County and has a main channel length of approximately 58 miles. Its headwaters originate in the San Gabriel Mountains with the East, West, and North Forks. The river flows through residential, commercial and industrial areas before reaching the Pacific Ocean in Long Beach. The main tributaries of the river are Walnut Creek Wash, San Jose Creek, and Coyote Creek. The Enhanced Watershed Management Program (EWMP) area is located in the upper portion of the San Gabriel River Valley. Water bodies within the EWMP area include:

- Thompsons Wash
- Little Dalton Wash
- Big Dalton Wash
- San Dimas Wash
- Walnut Creek Wash

- Puente Creek
- San Jose Creek Reaches 1 and 2
- San Gabriel River Reaches 2, 3, 4, and 5
- North Fork of Coyote Creek
- Coyote Creek

Flowing receiving waters downstream of the EWMP area include:

- San Gabriel River Reach 1San Gabriel River Estuary

Additionally, there are unnamed tributaries draining unincorporated County areas that discharge into Puddingstone Reservoir.

The geology of the San Gabriel River Valley provides rapid infiltration of water. During dry weather, the upper watershed is likely to be disconnected from the lower watershed. A goal of the monitoring in the CIMP will be to establish when the EWMP area is hydraulically connected to the downstream water bodies. If there is no flow to the downstream areas, the discharges in the EWMP area cannot possibly be causing or contributing to the downstream water quality impairments. Water quality data for the receiving waters in the EWMP area are sparse. Future monitoring results will allow the evaluation of whether MS4 discharges are causing or contributing to water quality objective exceedances in receiving waters downstream of or within the EWMP area.

The County of Los Angeles (County), Los Angeles County Flood Control District (LACFCD), and the Cities of Baldwin Park, Covina, Glendora, Industry, and La Puente (Group Members) comprise the Upper San Gabriel River Enhanced Watershed Management Program Group (EWMP Group).

Subsequent to the formation of the EWMP Group, the City of South El Monte indicated in a letter to the Los Angeles Regional Water Quality Control Board (Regional Board), dated February 26, 2015 of its intention to join the EWMP Group for the implementation of the CIMP. As a result, the EWMP Group agreed to include South El Monte in this Revised CIMP. Information regarding South El Monte is included in **Attachment G**.

The EWMP area is shown on **Figure 1-1** along with the named water bodies. Size and land uses for the Group Members jurisdictional boundaries are provided in **Table 1-1**. Note that the LACFCD service area underlies the EWMP area, however, does not include any land area contributing to the facilities they operate and maintain. The LACFCD service area is included as **Attachment A**. For purposes of the CIMP, the areas like the Angeles National Forest and vacant land parcels are excluded from consideration, as they do not contain a MS4. The areas serviced by the MS4 system for the Group Members and the land use breakdowns are presented as **Table 1-2**.

Subsequent to the submittal of the Draft CIMP, the City of South El Monte indicated in a letter to the Regional Board, dated February 26, 2015 of its intention to join the CIMP. As a result, the EWMP Group agreed to include South El Monte in this Revised CIMP. Additional information specific to South El Monte is contained in **Attachment G**.

Figure 1-1
Water Bodies and Geographic Boundary of the USGR EWMP Group

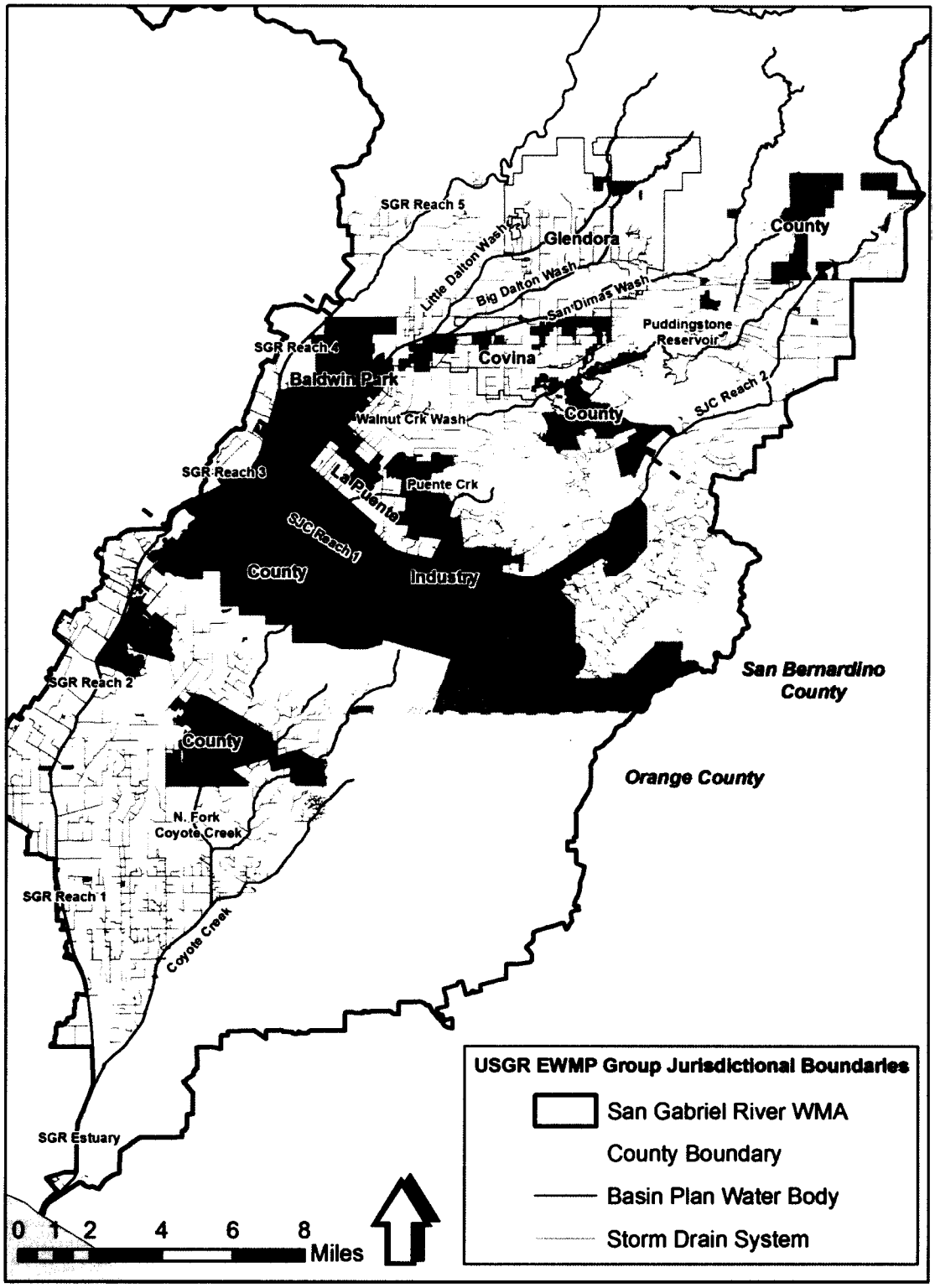


Table 1-1
List of Group Members with land use summaries within jurisdictional boundaries

Group Member	Area (square miles)	Percent of Land Area[1]			
		Res	Com/Ind	Ag/Nur	Open
Baldwin Park	6	66	31	2	1
Covina	7	65	32	<1	3
Glendora	15	48	13	1	38
Industry	11	<1	75	3	22
La Puente	4	71	24	<1	5
County of Los Angeles	62	50	14	1	35
LACFCD	N/A	N/A	N/A	N/A	N/A
All Members	104	47	23	1	29

1 Land use classifications include: residential (res), commercial and industrial (com/ind), agriculture and nursery (ag/nur), and open space (open). Totals correspond to the percent of the total area considered in the CIMP.

Table 1-2
List of Group Members with land use summaries within MS4 service area

Group Member	Area (square miles)	Percent of Land Area[1]			
		Res	Com/Ind	Ag/Nur	Open
Baldwin Park	6	66	31	2	1
Covina	7	65	32	<1	2
Glendora	10	70	20	1	8
Industry	10	<1	91	3	6
La Puente	3	72	25	<1	3
County of Los Angeles	45	68	20	2	11
LACFCD	N/A	N/A	N/A	N/A	N/A
All Members	81	60	30	2	8

1 Land use classifications include: residential (res), commercial and industrial (com/ind), agriculture and nursery (ag/nur), and open space (open). Totals correspond to the percent of the MS4 area considered in the CIMP. The area of National Forest and vacant land parcels within individual jurisdictions is excluded from the land use calculation.

1.2 APPLICABLE TMDL AND 303(D) LISTINGS

The TMDLs applicable to the EWMP area are listed in **Table 1-3.** The Metals TMDL lists grouped wet-weather WLAs for lead at San Gabriel River Reach 2 and all upstream tributaries. Additionally, the grouped dry-weather selenium WLAs apply to San Jose Creek Reaches 1 and 2. Because both allocations are applied as grouped allocations, the combined loading from all upstream tributaries must meet the allocations at the listed reaches. Monitoring will be necessary to identify the contribution to the loads from the EWMP area. The Regional Board adopted a

Basin Plan Amendment (BPA) incorporating an implementation plan and schedule on June 6, 2013. The adopted BPA contains general requirements for ambient monitoring and TMDL effectiveness monitoring. However, very specific requirements were incorporated into the MRP.

The Lakes TMDL was promulgated by United States Environmental Protection Agency (USEPA), and implementation provisions, including monitoring, were not explicitly required in the TMDL. Rather, the TMDL proposed monitoring recommendations for the Puddingstone Reservoir. Specific monitoring requirements to address the TMDL constituents were incorporated into the MRP and are considered for developing a monitoring plan at Puddingstone Reservoir.

While the Harbors Toxics TMDL was developed to address impairments in (among other water bodies) San Pedro Bay, the Permit links the Harbors Toxics TMDL to the San Gabriel River watershed requiring monitoring by all responsible parties subject to the Metals TMDL. Monitoring is intended to identify the contribution to the loads from the San Gabriel River Watershed Management Area. As recognized by the footnote in Attachment K-4 of the Permit, the Group Members have entered into an Amended Consent Decree with the United States and the State of California, including the Regional Board, pursuant to which the Regional Board has released the Group Members from responsibility for toxic pollutants in the Dominguez Channel and the Greater Los Angeles and Long Beach Harbors. Accordingly, no inference should be drawn from the submission of this CIMP or from any action or implementation taken pursuant to it that the Group Members are obligated to implement the Harbors Toxics TMDL, including this CIMP or any of the Harbors Toxics TMDL's other obligations or plans, or that the Group Members have waived any rights under the Amended Consent Decree.

Table 1-3
TMDLs Applicable to the EWMP Area

TMDL	Effective Date or EPA Approval Date	Regional Board Resolution Number
Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters Toxic Pollutants TMDL (Harbors Toxics TMDL)	03/23/2012	2011-008
Los Angeles Area Lakes Toxics and Nutrients TMDL for Puddingstone Reservoir (Lakes TMDL)	03/26/2012	None (USEPA TMDL)
San Gabriel River Metals TMDL (Metals TMDL)	03/26/2007	None[1] (USEPA TMDL)

1 Regional Board adopted an implementation Plan for the San Gabriel River Metals TMDL as BPA through resolution R13-004 on June 6, 2013.

Water body-pollutant combinations (WBPCs) on the 303(d) List that are not already addressed by a TMDL or other action are included as Category 2. All listings within or downstream of the EWMP area were identified and included to acknowledge that discharges from upstream reaches could impact the listed area, particularly during wet weather. However, a constituent included in the table does not infer MS4 discharges from the EWMP area contribute to the downstream

impairment. The 303(d) listed water bodies are presented in **Table 1-4**.

Table 1-4
Category 2 Water Body-Pollutants

Constituent	Coyote Creek	San Gabriel River Reach: 1	2	3	San Jose Creek Reach: 1	2	Walnut Creek Wash	San Gabriel Estuary	Puente Creek
Ammonia	L				L				
Coliform/ Indicator Bacteria	L	L	L	L	L	L	L		L
Cyanide			L						
Total Dissolved Solids (TDS)					L				
Benthic-Macroinvertebrates							L		
Diazinon	L								
Dioxin[1]								L	
Dissolved Oxygen (DO)								L	
Nickel								L	
pH	L	L			L		L		
Selenium	L[2]								L
Toxicity	L				L				

1 Dioxin measured and assessed as 2,3,7,8-TCDD
2 Listing is for North Fork of Coyote Creek
L Listed on 2010 303(d) List.

1.3 WATER QUALITY PRIORITIES

As part of the EWMP development, the available data were analyzed to determine water quality priorities for the watershed. While the water quality priorities analysis will be finalized as part of the EWMP, an initial characterization of the water quality priorities has been developed. Water quality priorities are based on TMDLs, State Water Resources Control Board 2010 303(d) List of Impaired Water Bodies (303(d) List), and monitoring data. Based on available information and data analysis, WBPCs were classified in one of the three Permit categories, as described in **Table 1-5**. The Permit categories are utilized in this CIMP to identify parameters that will be monitored at each receiving water and outfall monitoring site. Since the analysis is water body specific, different parameters may be monitored at different monitoring sites.

Table 1-5
Details for Water Body-Pollutant Combination Subcategories

Category	Water Body-Pollutant Combinations (WBPCs)	Description
1	**Category 1A:** WBPCs with past due or current Permit term TMDL deadlines with exceedances in the past 5 years.	WBPCs with TMDLs with past due or current Permit term interim and/or final limits. These pollutants are the highest priority for the current Permit term.
	Category 1B: WBPCs with TMDL deadlines beyond the Permit term with exceedances in the past 5 years.	The Permit does not require the prioritization of TMDL interim and/or final deadlines outside of the Permit term or USEPA TMDLs, which do not have implementation schedules. To ensure EWMPs consider long term planning requirements and utilize the available compliance mechanisms these WBPCs should be considered during BMP planning and scheduling, and during CIMP development.
	Category 1C: WBPCs addressed in USEPA TMDL without a Regional Board Adopted Implementation Plan.	
	Category 1D: WBPCs with past due or current Permit term TMDL deadlines but have not exceeded in past 5 years.	WBPCs where specific actions may end up not being identified because recent exceedances have not been observed and specific actions may not be necessary. The CIMP should address these WBPCs to support future re-prioritization.
	Category 1E: WBPCs with future Permit term TMDL deadlines but have not exceeded in past 5 years.	
2	**Category 2A:** 303(d) Listed WBPCs or WBPCs that meet 303(d) Listing requirements with exceedances in the past 5 years.	WBPCs with confirmed impairment or exceedances of RWLs. WBPCs in a similar class[1] as those with TMDLs are identified. WBPCs currently on the 303(d) List are differentiated from those that are not to support utilization of EWMP compliance mechanisms.
	Category 2B: 303(d) Listed WBPCs or WBPCs that meet 303(d) Listing requirements that are not a "pollutant"[2] (i.e., toxicity).	WBPCs where specific actions may not be identifiable because the cause of the impairment or exceedances is not resolved. Either routine monitoring or special studies identified in the CIMP should support identification of a "pollutant" linked to the impairment and re-prioritization in the future.
	Category 2C: 303(d) Listed WBPCs or WBPCs that meet 303(d) Listing requirements but have not exceeded in past 5 years.	WBPCs where specific actions for implementation may not be identified because recent exceedances have not been observed. Pollutants that are in a similar class[1] as those with TMDLs are identified. Routine monitoring identified in the CIMP should ensure these WBPCs are addressed to support re-prioritization in the future.
3	**Category 3A:** All other WBPCs with exceedances in the past 5 years.	Pollutants that are in a similar class[1] as those with TMDLs are identified.
	Category 3B: All other WBPCs that are not a "pollutant"[2] (i.e., toxicity).	WBPCs where specific actions may not be identifiable because the cause of the impairment is not resolved. Routine monitoring identified in the CIMP should support identification of a "pollutant" linked to the impairment and re-prioritization in the future.
	Category 3C: All other WBPCs but have not exceeded in past 5 years.	Pollutants that are in a similar class[1] as those with TMDLs are identified.
	Category 3D: WBPCs identified by the EWMP Group.	The EWMP Group may identify other WBPCs for consideration in EWMP planning.

1 Pollutants are considered in a similar class if they have similar fate and transport mechanisms, can be addressed via the same types of control measures, and within the same timeline already contemplated as part of the EWMP for the TMDL. (Permit pg. 49).

2 While pollutants may be contributing to the impairment, it currently is not possible to identify the *specific* pollutant/stressor.

Where available, the most recent 10 years of data were analyzed to identify WBPCs. Additionally, the last 5 years of data were analyzed to determine if historical issues were abated and refine the categorization of WBPCs. Subcategories were identified and created to refine the prioritization process. Those pollutants with measurements exceeding water quality objectives are further evaluated and categorized based on the frequency, timing, and magnitude of exceedances. The WBPCs are placed in the respective subcategories in **Table 1-6**.

Table 1-6
Summary of San Gabriel River Watershed Water Body-Pollutant Categories

Class[1]	Constituent[2]	Within EMWP Area								Downstream of EWMP Area		
		San Gabriel River Reach[3]		San Jose Creek Reach		Puente Creek	Walnut Creek Wash	North Fork of Coyote Creek	Pudding-stone Reservoir	Coyote Creek	San Gabriel River Reach 1	San Gabriel Estuary
		2	3	1	2							
Category 1A: WBPCs with past due or current term TMDL deadlines with exceedances in the past 5 years.												
Metals	Copper (Dry)									I	I	I
	Copper (Wet)[4]							I		I		
	Zinc (Wet)[4]							I		I		
	Selenium (Dry)			I	I							
Category 1B: WBPCs with TMDL deadlines beyond the current Permit term and with exceedances in the past 5 years.												
Metals	Copper (Dry)									F	F	F
	Copper (Wet)[4]							F		F		
	Zinc (Wet)[4]							F		F		
	Selenium (Dry)			F	F							
Category 1C: WBPCs addressed in USEPA TMDL without an Implementation Plan												
Nutrients	Total Nitrogen								X			
	Total Phosphorus								X			
Metals	Total Mercury								X			
Legacy	Polychlorinated Biphenyl (PCB) (Sediment)								X			
	PCB (Water)								X			
	Chlordane (Sediment)								X			
	Chlordane (Water)								X			
	Dieldrin (Sediment)								X			
	Dieldrin (Water)								X			
	DDT (Sediment)								X			
	DDT (Water)								X			

Continued

Table 1-6
Continued

Class[1]	Constituent[2]	Within EMWP Area								Downstream of EWMP Area		
		San Gabriel River Reach[3]		San Jose Creek Reach		Puente Creek	Walnut Creek Wash	North Fork of Coyote Creek	Pudding-stone Reservoir	Coyote Creek	San Gabriel River Reach 1	San Gabriel Estuary
		2	3	1	2							
Category 1D: WBPCs with past due or current term deadlines without exceedances in the past 5 years.												
Metals	Copper (Dry)[4]							I				
	Lead (Wet)[5]	I	I	I	I	I	I	I		I		
Category 1E: WBPCs with TMDL deadlines beyond the current Permit term without exceedances in the past 5 years.												
Metals	Copper (Dry)[4]							F				
	Lead (Wet)[5]	F	F	F	F	F	F	F		F		
Category 2A: 303(d) Listed WBPCs with exceedances in the past 5 years.												
Bacteria	Indicator Organisms	303(d)	303(d)	303(d)	303(d)	303(d)	303(d)	303(d)		303(d)	303(d)	
Metals	Zinc		Wet							Dry		
	Lead				Dry					Dry		
	Selenium					303(d)		303(d)				
	Copper		X									
Legacy	Polycyclic Aromatic Hydrocarbon (PAH)	X	X	X	X							
Other	Cyanide	303(d)	X							X		
Category 2B: 303(d) Listed WBPCs that are not a "pollutant"[6] (i.e., toxicity).												
Other	Benthic-Macroinvertebrates						303(d)					
Other	DO											303(d)
Other	pH			303(d)			303(d)			303(d)	303(d)	
Other	Toxicity			303(d)						303(d)		

Continued

Table 1-6
Continued

Class[1]	Constituent[2]	Within EMWP Area								Downstream of EMWP Area		
		San Gabriel River Reach[3]		San Jose Creek Reach		Puente Creek	Walnut Creek Wash	North Fork of Coyote Creek	Pudding-stone Reservoir	Coyote Creek	San Gabriel River Reach 1	San Gabriel Estuary
		2	3	1	2							
Category 2C: 303(d) Listed WBPCs without exceedances in past 5 years.												
Nutrients	Ammonia			303(d)						303(d)		
Other	Diazinon									303(d)		
Other	2,3,7,8-TCDD (Dioxin)											303(d)
Metal	Cadmium					Wet						
	Copper			X								
	Lead					Dry	Dry					
	Zinc			X		X	X					
	Nickel									Dry		303(d)
	Mercury (Total)							X				
Salts	TDS			303(d) Dry								
Category 3A: WBPCs with exceedances in the past 5 years.												
Other	MBAS		Wet							Wet		
Salts	Sulfate		Dry	Dry	Dry							
	Chloride		Dry	Dry	Dry					Dry		
	TDS		Dry									
Legacy	Alpha-Endosulfan									Dry		
Other	Cyanide							X				
Category 3B: WBPCs that are not a "pollutant" [6] (i.e., toxicity).												
Other	DO		X	X	X					Wet	Dry	
	pH					X		Dry				

Continued

Table 1-6
Continued

Class[1]	Constituent[2]	Within EMWP Area								Downstream of EMWP Area		
		San Gabriel River Reach[3]		San Jose Creek Reach		Puente Creek	Walnut Creek Wash	North Fork of Coyote Creek	Coyote Creek	Pudding-stone Reservoir	San Gabriel River Reach 1	San Gabriel Estuary
		2	3	1	2							
Category 3C: WBPCs with historical exceedances but none in the past 5 years.												
Other	Cyanide			X								
Metals	Selenium						X				X	X
	Lead											X
	Copper					Dry						
	Zinc											X
	Mercury (Total)						X					
Other	Lindane		X									

1 Pollutants are considered in a similar class if they have similar fate and transport mechanisms, can be addressed via the same types of control measures, and within the same timeline already contemplated as part of the EWMP for the TMDL.
2 WBPC listed as Wet or Dry where issue is restricted to a condition. Otherwise, WBPC is both an issue for both Wet and Dry and donated with an X
3 Data from Mass Emission Station S14 are included under San Gabriel River Reach 3 because the station is located just downstream of the reach break. TMDL and 303(d) listings historically applied to Reach 2.
4 Grouped allocation. Compliance in Coyote Creek, as measured at the Coyote Creek LTA station, is compliance for all tributaries.
5 Grouped allocation. Compliance in San Gabriel River Reach 2, as measured at the San Gabriel LTA station, is compliance for all tributaries.
6 While pollutants may be contributing to the impairment, it currently is not possible to identify the specific pollutant/stressor.
I/F Denotes where the Permit includes interim (I) and/or final (F) effluent and/or RWLs.
303(d) WBPC on the 2010 303(d) List where the listing was confirmed during data analysis.

Constituents may change subcategories with new information as the monitoring progresses, source investigations occur, and BMP implementation begins. Constituents for which exceedances decrease over time will be removed from the priority list and moved to the monitoring priority categories; or, dropped from the priority list. If the frequency of constituent exceedances increases to a consistent level, for a constituent that is currently not a priority, then the constituent would be reevaluated using the prioritization procedure, likely increasing the priority of the constituent. Due to the natural rate of infiltration, the San Gabriel River and some of the tributaries are dry with the exception of storm flows. Future monitoring will be assessed to determine where discontinuity occurs between the upper and lower watershed during dry and minor storm events. Upon establishing the discontinuity, the corresponding WBPCs flagged due to downstream water quality issues will be adjusted or removed from the categorization.

2 Receiving Water Monitoring Program

Receiving water monitoring is designed to provide data to determine whether the RWLs and WQOs are being achieved and if beneficial uses are being supported. Over time, the monitoring will allow the assessment of trends in pollutant concentrations. The following subsections describe how the MRP requirements for receiving water monitoring will be met within the EWMP area.

2.1 RECEIVING WATER MONITORING OBJECTIVES

The objectives of the receiving water monitoring include the following:

- Determine whether the RWLs are being achieved;
- Assess trends in pollutant concentrations over time, or during specified conditions; and
- Determine whether the designated beneficial uses are fully supported as determined by water chemistry, as well as aquatic toxicity and bioassessment monitoring.

The following presents the receiving water monitoring sites, monitoring parameters and frequency, and a discussion on monitoring coordination. A summary of how the receiving water monitoring program meets the objectives of the MRP concludes the section. The approach builds off the MRP requirements, the TMDL monitoring requirements, as well as existing monitoring programs in the watershed. Implementation of the CIMP will meet the monitoring requirements for TMDLs that had not yet developed monitoring programs (e.g., Harbors Toxics TMDL, San Gabriel River Metals TMDL, etc.). Note that the Harbors Toxics TMDL required the development of a monitoring program and quality assurance project plan (QAPP). This CIMP addresses those requirements. While not all aspects of a QAPP are explicitly addressed herein the primary requirements that are not included relate to the implementation of the CIMP (e.g., definition of project manager, lines of communication, and standard operating procedures). These requirements will be addressed prior to the implementation of the CIMP.

2.2 DESCRIPTION OF RECEIVING WATER MONITORING

Prioritizations of WBPCs were utilized to support the development of the monitoring approach as identified in the EWMP Work Plan to address the different monitoring objectives and priorities. Two types of monitoring are proposed:

- **Long-Term Assessment** – LTA monitoring is intended to determine if RWLs are achieved, assess trends in pollutant concentrations over time, and to determine whether designated uses are supported.
- **TMDL** – TMDL monitoring is conducted to evaluate attainment of or progress in attaining the TMDL.

While not explicitly established in the MRP, the monitoring types proposed distinguish between the different end goals of monitoring for specific constituents within specific water bodies in the EWMP area. LTA monitoring provides a long-term record to understand conditions within the EWMP area, for a robust suite of parameters. TMDL monitoring addresses TMDL related

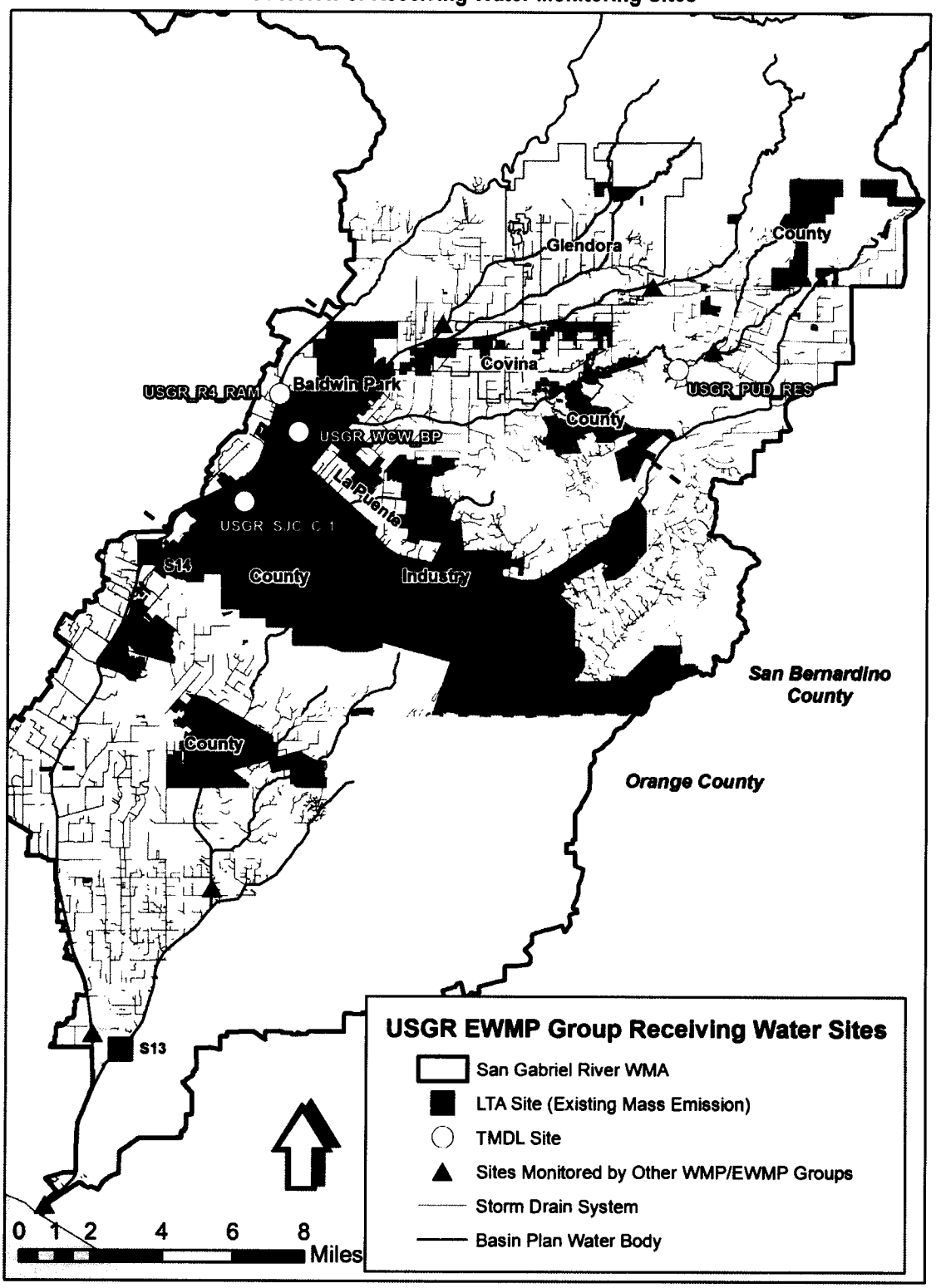
constituents. WBPCs on the 303(d) list, those meeting the listing requirements, or those exceeding receiving water objectives will be monitored at LTA sites and applicable TMDL sites.

The receiving water monitoring sites meet the MRP objectives and support an understanding of potential impacts associated with MS4 discharges. However, as described in the MRP, receiving water sites are intended to assess receiving water conditions. An exceedance of a RWL at a receiving water site does not indicate MS4 discharges caused or contributed to the RWL exceedance, as the receiving water sites also receive runoff from non-MS4 sources, including open space and other permitted discharges that may have been caused or contributed to by a non-MS4 source. A determination regarding whether MS4 discharges caused or contributed to a RWL exceedance will be made using data collected through outfall monitoring.

2.3 RECEIVING WATER MONITOTING SITES

The requirements in the MRP include receiving water monitoring sites at previously designated LACFCD's mass emission stations, TMDL receiving water compliance points, and additional receiving water locations representative of the impacts from MS4 discharges. Receiving water sites selected by the Group Members are shown in **Figure 2-1**. The following subsections integrate the TMDL and MS4 monitoring requirements and describe the sites, frequency, parameters, and duration of receiving water monitoring.

Figure 2-1
Overview of Receiving Water Monitoring Sites



2.3.1 Long Term Assessment Sites

One of the primary objectives of receiving water monitoring is to assess trends in pollutant concentrations over time, or during specified conditions. As a result, the primary characteristic of an ideal monitoring site is a robust dataset of previously collected monitoring results so that trends in pollutant concentrations over time, or during specified conditions, can be assessed.

The LTA monitoring meets the receiving water objectives and supports an understanding of potential impacts associated with MS4 discharges. However, receiving water sites are intended to assess receiving water conditions.

Two LTA monitoring sites are proposed at the existing mass emission stations S14 and S13. Note that station S14 is physically located on Reach 2, however, it is located just downstream from Reach 3, therefore, data collected at S14 is reflective of the Reach 3 water quality. These sites provide a long historical record by which trends can be assessed over time and long-term attainment of RWLs and beneficial uses within the EWMP area to be evaluated. The sites are shown on **Figure 2-1**.

The LTA monitoring sites will also be utilized to support monitoring of prioritized WBPCs. It is anticipated that the LACFCD will continue to conduct monitoring at the mass emissions. The EWMP Group will coordinate with the LACFCD for monitoring at S14 and if necessary, using the mass emissions to conduct monitoring of any additional parameter or frequency beyond LACFCD's program. The Lower San Gabriel River (LSGR) WMP Group will coordinate with the LACFCD for monitoring at S13 and, therefore, monitoring details for S13 are not included in this CIMP. Photographs of the LTA sites and flow monitoring locations are included in **Attachment B.**

2.3.2 TMDL Sites

Within the EWMP area, Metals TMDL monitoring sites are required in San Gabriel River Reaches 2, 3, 4, and 5, San Jose Creek Reaches 1 and 2, Walnut Creek Wash, and Coyote Creek. The LTA stations S13 and S14 will be used to monitor Metals TMDL requirements for Coyote Creek and San Gabriel River Reach 3, respectively. The LSGR WMP Group will monitor the North Fork of Coyote Creek for Metals TMDL Sites are presented in **Figure 2-1** with symbol shape corresponding to Watershed Group. The sites will be located and monitored as follows:

Sites to be monitored by the EWMP Group:

- San Gabriel River Reach 4 TMDL site will be downstream of Ramona Boulevard at flow control structure.
- San Jose Creek Reach 1 TMDL site will be at the LACSD R-10 monitoring site located upstream of the Discharge Serial No. 002 discharge point for LACSDs' San Jose Creek Water Reclamation Plant (WRP).
- Walnut Creek Wash TMDL site will be located in the transition between lined and unlined portion of Walnut Creek Wash, upstream of the confluence with the San Gabriel River.
- Puddingstone Reservoir TMDL monitoring at approximately the center of the lake.

Sites to be monitored by other WMP/EWMP Groups and the LACSD, and their relevant data will be shared with USGR EWMP Group for assessment:

- Live Oak Wash LTA site upstream of the discharge into Puddingstone Reservoir to be monitored by the East San Gabriel Valley (ESGV) WMP Group.
- Potential Walnut Creek Wash TMDL site upstream of the ESGV boundary to be monitored by the ESGV WMP Group.
- San Dimas Wash TMDL site upstream of the ESGV boundary to be monitored by the ESGV WMP Group.
- San Jose Creek Reach 2 TMDL site will be located at the upstream intersection of San Jose Creek and the Group Members' jurisdictional boundary, approximately one mile downstream of the terminus of San Jose Creek Reach 2. Monitoring will be conducted by the ESGV WMP Group.
- Little Dalton LTA site will be located upstream of the confluence with San Dimas Wash, which is tributary to Walnut Creek and eventually San Gabriel River Reach 3. Monitoring will be conducted by the Rio Hondo/San Gabriel River EWMP Group.
- North Fork of Coyote Creek TMDL site located upstream of the confluence with Coyote Creek. Monitoring will be performed by the LSGR WMP Group.
- Potential San Gabriel River Reach 2 TMDL site located in the vicinity of the downstream reach break. Monitoring will be performed by the LSGR WMP Group.
- San Gabriel River Reach 1 TMDL site located upstream of the confluence with Coyote Creek. Monitoring will be performed by the LSGR WMP Group.
- San Gabriel River Estuary TMDL site located at the LACSD R-8 site. Monitoring will be performed by the LACSD.

Monitoring for the Metals TMDL is also required in San Gabriel River Reach 1 and the Estuary. Given that jurisdictions outside of the EWMP area primarily surround these water bodies, TMDL monitoring sites for these water bodies are not discussed within this CIMP. However, monitoring sites within the EWMP area will be utilized to assess the Group Members' contribution to downstream water bodies.

A Lakes TMDL monitoring site is required at the Puddingstone Reservoir. A location at the center of the reservoir will be used to monitor water column and lake bed sediment. Fish tissue samples will be collected as necessary depending on the behavioral patterns of the targeted fish species (largemouth bass for mercury assessments and common carp for OC pesticide and PCB assessments.) Within this EWMP Group, the County and LACFCD are the only Group Members contributing to the monitoring in Puddingstone Reservoir. Monitoring of stormwater discharge to the reservoir for OC pesticides and PCBs on suspended sediment will be performed by the ESGV Group at the Live Oak Wash LTA site. The proposed sites are located on **Figure 2-1**.

Additionally, one Harbors Toxics TMDL monitoring site is also required at the mouth of the San Gabriel River to determine the River's contribution to the impairments in the Greater Harbor waters. All responsible parties to the Metals TMDL are responsible for performing the specified monitoring. The dry weather and benthic sediment Harbors Toxics TMDL site will be located at LACSD's R-8 monitoring site in the San Gabriel River Estuary at Marina Drive. The dry weather and benthic sediment monitoring will be performed by the LACSD. Wet weather monitoring will occur at San Gabriel River Reach 1 and existing Coyote Creek mass emission S13, allowing the relative proportions of the respective areas be determined as well as the total contribution to the estuary. The Lower San Gabriel River WMP Group will coordinate with LACFCD to conduct wet weather Harbors Toxics TMDL monitoring.

2.4 MONITORED PARAMETERS AND FREQUENCY OF MONITORING

Receiving water sites will be monitored for the constituents listed in **Table 2-1**. The program will operate three wet weather events per year, including the first significant rain event of the storm year, and during two dry weather events per year, conducted in January and July. In the first year of monitoring, the full list of constituents on Table E-2 of the MRP will be monitored at the LTA sites for the first large storm and the July dry event. The constituents listed in **Table 2-1**, will be monitored for the remaining events during the first year. Any constituents listed in Table E-2 of the MRP found to exceed water quality objectives will be added to **Table 2-1** and included in monitoring events beginning the second year of monitoring. Where constituents on Table E-2 of the MRP were not detected above WQOs, they will not be included for monitoring as part of the CIMP. The list of WQOs used for the analysis is presented in **Attachment D.** Historic precipitation data for the EWMP Group area was analyzed from the National Oceanic and Atmospheric Administration National Climate Data Center precipitation gage USC00043452, located in the City of Glendora. Data from 1895 to 2011 was analyzed to determine that July is the historically driest month for the EWMP Group, receiving on average approximately 0.08 inches of precipitation. Stream flow rates were not used to determine the critical dry month, because wastewater flows and water transfers may influence the results. The frequency of monitoring for wet and dry events is specified by site in **Table 2-1**

For toxicity, monitoring will be conducted during two wet weather events per year and during the one dry weather event that takes place coincident with the summer dry weather sampling event.

Monitoring details for Puddingstone Reservoir are listed in **Table 2-2**. Analytical methods, detection limits, sampling methods, sample handling procedures, and details regarding the collection of quality assurance/quality control samples are outlined in **Attachment C**.

Metals TMDL ambient monitoring will be conducted at a frequency consistent with the default LTA monitoring of three wet and two dry events. The Metals TMDL specifies four wet weather events annually for effectiveness monitoring. For the receiving water sites used for Metals TMDL compliance, a fourth storm will be targeted for monitoring metals and associated constituents. After the first year of monitoring, the metals data will be evaluated to determine if three storms provide sufficient information. If three storms are found to provide sufficient information, a reduction in monitoring to three storms per year will be requested from the Regional Board. If a reduction in sampling is appropriate, the frequency of supporting parameters will likewise be reduced. The supporting parameters include: flow and field parameters, TSS, and hardness. Dry weather metals TMDL sampling will be conducted by the LSGR WMP Group for North Fork of Coyote Creek, and the ESGV WMP Group will monitor San Jose Creek Reach 2. Once implementation has occurred and TMDL monitoring data is available, effectiveness monitoring will be included as part of the adaptive management process.

Water column, bed sediment, and fish tissue will be monitored in Puddingstone Reservoir as per the MRP with the exception of the bed sediment frequency. The sedimentation rate identified in the TMDL ranges between two to four centimeters per year, equivalent to the depth typically sampled for surface sediments. Collection of sediment samples for multiple times throughout year would essentially represent a duplicate sample rather than produce data indicative of a changing condition associated with new sediment deposited over the course of a year. The bed

sediment will be collected and analyzed every other year to allow the long-term tracking of sediment quality.

Table 2-1
Annual Frequency of Receiving Water Monitoring during Wet and Dry Weather Conditions

Constituent	Annual Frequency (number wet events/number dry events)			
	LTA	TMDL		
	San Gabriel River Reach		San Jose Creek Reach 1	Walnut Creek Wash
	3[1]	4		
Flow and field parameters[2]	3/2	3/2	3/2	3/2
TSS and Hardness	3/2	3/2	3/2	3/2
Table E-2 of the MRP[3,4]	1/1			
Toxicity[4]	2/1			
TIE Identified Pollutants	(5)	(5)	(5)	(5)
Total and Dissolved Copper[6]	4/2	4/2	4/2	4/2
Total and Dissolved Lead[6]	4/0	4/0	4/2	4/2
Total and Dissolved Zinc[6]	4/2	4/2	4/2	4/2
Total and Dissolved Cadmium[6]			4/0	
Selenium[6]			4/2	4/2
PAHs[7]	3/2		3/2	
E. coli	3/2	3/2	3/2	3/2
Ammonia			3/2	
MBAS	3/0			
Cyanide	3/2		3/2	
Mercury				3/2
Lindane	3/2			
Chloride	0/2		0/2	
Sulfate	0/2		0/2	
Total Dissolved Solids	0/2		0/2	

1 LACFCD will continue to operate existing mass emission station.
2 Field parameters are dissolved oxygen, pH, temperature, and electrical conductivity.
3 Constituents listed in Table E-2 of the MRP will be analyzed in the first year of monitoring under the CIMP. Constituents found to exceed the respective water quality objectives will be added to **Table 2-1.** Two or more exceedances in the receiving water during wet weather will result in the constituents being added to the outfall monitoring list of constituents, **Table 4-9**. Two or more exceedances in the receiving water during dry weather will result in the constituents being added to the non-stormwater monitoring list, **Table 5-4**.
4 For wet weather, the first large storm event of the year is targeted. For dry weather, one sample will occur in the month with historically lowest flow, which is July for this EWMP Group.
5 Where wet weather monitoring of the San Gabriel River at the mass emission site S14 observes toxicity and a subsequent TIE identifies a pollutant(s), the pollutant(s) will be added to the wet weather monitoring list at 3/year. Where dry weather monitoring observes toxicity and a subsequent TIE identifies a pollutant(s), the pollutant(s) will be added to the dry weather monitoring list at 2/year. The monitoring for the additional pollutant(s) will commence at the scheduled event following notification of TIE results.
6 Sampling reflective of TMDL condition. After the first year of monitoring, the metals data will be evaluated to determine if three storms provide sufficient information. If three storms are found to provide sufficient information, a reduction in monitoring to three storms per year will be requested from the Regional Board. If a reduction in sampling is appropriate, the frequency of supporting parameters will likewise be reduced. The supporting parameters include: flow and field parameters, TSS, and hardness.
7 PAHs include: Benzo(a)pyrene, 3,4 Benzofluoranthene, Benzo(k)flouranthene, Chrysene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene.

Table 2-2
Summary of Puddingstone Reservoir TMDLs Monitoring

TMDL	Frequency	Monitoring Requirements
Nutrient TMDL	Two summer and One winter	• Ammonia, Total Kjeldahl Nitrogen or organic nitrogen, nitrate plus nitrite, orthophosphate, total P, TSS, TDS, and chlorophyll *a*. Sampled at half Secchi depth. • Temperature, DO, pH, specific electrical conductivity, and Secchi depth taken throughout the water column
Mercury TMDL	Once in three years	• Monitoring largemouth bass 325-375 mm length mercury fish tissue
	Once in two years	• In-lake sediment mercury, methylmercury, sulfate
	Twice per year	• Total Mercury, methylmercury, chloride, sulfate, total organic carbon, alkalinity, TSS, TDS sampled at half Secchi depth. • Temperature, DO, pH, electrical conductivity (EC), and Secchi depth should be taken throughout the water column
Organochlorine Pesticides and PCBs TMDLs	Once in three years	• Monitoring of skin off fillets from at least five common carp with length at least 350 mm: total PCBs, total chlordane, dieldrin, and total DDTs
	Once in two years	• In-lake sediment parameters: total PCBs, total chlordane, dieldrin, and total DDTs
	Once per year	• In-lake water quality parameters: TSS, total PCBs, total chlordane, dieldrin, and total DDTs sampled at half Secchi depth. • Temperature, DO, pH, EC, and Secchi depth should be taken throughout the water column

2.5 RECEIVING WATER MONITORING SITE SUMMARY

Six sites are selected in the EWMP area to address the receiving water monitoring program objectives. Altogether with other watershed management groups, there will be 14 receiving water sites in the San Gabriel River Watershed Management Area. The receiving water sites are summarized in **Table 2-3**, and located on **Figure 2-1**. A summary of the monitoring data, which the Group Members are responsible for collecting at the receiving water sites, is presented as **Table 2-1**. Monitoring requirements for Puddingstone Reservoir are listed in **Table 2-2**, which will be fulfilled by the County and LACFCD.

Table 2-3
Summary of Receiving Water Monitoring

Site ID	Water Body Represented	Coordinates		Monitoring Type	
		Latitude	Longitude	LTA	TMDL
S14[1]	SGR Reach 3	34.01277	-118.06381	X	X
S13[2]	Coyote Creek	33.80982	-118.07671	X	X
USGR_SJC_C-1	SJC Reach 1	34.03339	-118.01700		X
USGR_WCW_BP	Walnut Creek Wash	34.06272	-117.98600		X
USGR_R4_RAM	SGR Reach 4	34.07296	-118.00200		X
USGR_PUD_RES	Puddingstone Reservoir	34.08789[2]	-117.80445[3]		X

1 Existing mass emission station operated by LACFCD. Monitoring will be coordinated with EWMP Group.
2 Existing mass emission station operated by LACFCD. Monitoring will be coordinated with LSGR WMP Group.
3 Approximate location.

Monitoring sites utilized by collaboration partners are listed in **Table 2-4.**

Table 2-4
Summary of Other Receiving Water Monitoring in San Gabriel River Watershed Management Area

Coordination Partner	Water Body Represented	Coordinates		Monitoring Type	
		Latitude	Longitude	LTA	TMDL
LACSD	SGR Estuary	33.74705	-118.11313		X
LSGR WMP	SGR Reach 2	33.97053	-118.08765		X
LSGR WMP	SGR Reach 1	33.8041	-118.0906	X	X
LSGR WMP	North Fork Coyote Creek	33.91722	-118.03811		X
ESGV WMP	SJC Reach 2	34.03223	-117.82489		X
ESGV WMP	Live Oak Wash	34.094064	-117.792934	X	X
ESGV WMP	Walnut Creek Wash	34.086672	-117.845592		X
ESGV WMP	San Dimas Wash	34.121341	-117.820088		X
RH/SGR EWMP	Little Dalton Wash	34.099445	-117.926766	X	X

2.6 RECEIVING WATER MONITORING SUMMARY

A summary of how the receiving water monitoring program meets the intended objectives of the receiving water monitoring program outlined in Part II.E.1 of the MRP is presented in **Table 2-5**.

Table 2-5
Summary of Receiving Water Monitoring Program Objectives

MRP Objective	CIMP Component Meeting Objective
Determine whether the RWLs are being achieved.	• Six total receiving water monitoring sites. • Receiving water monitoring sites located as required by TMDLs. • Constituents added for monitoring based on the water quality priorities (i.e., the constituents at the highest risk of exceeding RWLs).
Assess trends in pollutant concentrations over time, or during specified conditions.	• LTA station existing within the EWMP area. • Three wet and two dry events of metals monitoring at all receiving water monitoring sites. • Monitoring of other constituents during dry weather and wet weather at frequency specified in the MRP. • Constituents added for monitoring based on the water quality priorities.
Determine whether the designated beneficial uses are fully supported as determined by water chemistry, as well as aquatic toxicity and bioassessment monitoring.	• At least one monitoring site located in the majority of water bodies specified in the Basin Plan. • Aquatic Toxicity monitoring to be conducted during dry and wet weather • Constituents added for monitoring based on the water quality priorities.

3 MS4 Outfall Database

The objective of the MS4 outfall database is to geographically link the characteristics of the outfalls within the EWMP area with watershed characteristics including: subwatershed, water body, land use, and effective impervious area. The information will be compiled into geographic information system (GIS) layers. The MS4 database is discussed below.

3.1 PROGRAM OBJECTIVES

A GIS based database of the MS4 storm drains and outfalls is required as part of the CIMP. The database structure must accommodate the following data fields:

1. Surface water bodies within the Group Member jurisdictions.
2. Sub-watershed Hydrologic Unit Code (HUC) - 12 boundaries.
3. Land use overlay.
4. Effective Impervious Area overlay (if available).
5. Jurisdictional boundaries.
6. The location and length of all open channel and underground pipes 18 inches in diameter or greater (with the exception of catch basin connector pipes).
7. The location of all dry weather diversions.
8. The location of all major MS4 outfalls within the Group Members' jurisdictional boundary. Each major outfall shall be assigned an alphanumeric identifier, which must be noted on the map.
9. Notation of outfalls with significant non-stormwater discharges (to be updated annually).
10. Storm drain outfall catchment areas for each major outfall within the Group Members' jurisdiction.
11. Each mapped MS4 outfall shall be linked to a database containing descriptive and monitoring data associated with the outfall. The data shall include:
    a. Ownership
    b. Coordinates
    c. Physical description
    d. Photographs of the outfall, where possible, to provide baseline information to track operation and maintenance needs over time
    e. Determination of whether the outfall conveys significant non-stormwater discharges.
    f. Stormwater and non-stormwater monitoring data

Available GIS data were reviewed to determine which components were available to populate the database for submittal with the CIMP. Information currently available includes components 1, 2, 3, 5, 6, 7, and 11.b. For the remaining components 8, 9, 10, 11.a, 11.c, 11.d, 11.e, and 11.f, the Group Members has begun the efforts to gather the information. All outstanding data will be collected upon completion of the non-stormwater outfall screening by the end of 2014. Based on the review of the GIS data, the components were divided into two categories: (1) available information being submitted with the CIMP, and (2) pending information that will be submitted after completion of the non-stormwater outfall and screening program.

3.2 AVAILABLE INFORMATION

The following data are being submitted in a database concurrently with the CIMP (note, the numbering corresponds to the item number in the Permit list):

1 Surface water bodies within the Group Members' jurisdiction.
2. Sub-watershed (HUC-12) boundaries.
3. Land use overlay.
5. Jurisdictional boundaries.
6. The location and length of all open channel and underground pipes 18 inches in diameter or greater (with the exception of catch basin connector pipes).
7. The location of all dry weather diversions.
11. Each mapped MS4 outfall shall be linked to a database containing descriptive and monitoring data associated with the outfall. The data shall include:
    b. Coordinates

3.3 PENDING INFORMATION

An ongoing effort is collecting the data that are not currently available for submittal with the CIMP. The MS4 database will be populated as the data are collected. Annual reports will include the most recent updated database. The fields that will be updated through implementation of the CIMP include:

4. Effective impervious area overlay (if available).
8. The location of all major MS4 outfalls within the Group Members' jurisdictional boundary.
9. Notation of outfalls with significant non-stormwater discharges (to be updated annually).
10. Storm drain outfall catchment areas for each major outfall within the Group Member's jurisdiction.
11. Each mapped MS4 outfall shall be linked to a database containing descriptive and monitoring data associated with the outfall. The data shall include:
    a. Ownership
    c. Physical description
    d. Photographs of the outfall, where possible, to provide baseline information to track operation and maintenance needs over time
    e. Determination of whether the outfall conveys significant non-stormwater discharges.
    f. Stormwater and non-stormwater monitoring data.

The EWMP Group anticipates implementing the non-stormwater outfall program beginning in summer 2014 and the information necessary to determine pending elements is expected to be generated, as seen in **Table 3-1**. A schedule for completing each of the elements is provided. As the data become available, they will be entered into the GIS and water quality databases.

Table 3-1
MS4 Database Elements to Be Developed

Database Element	To Be Developed	Date of First Submission
Effective Impervious Area overlay (if available).		As Available
Notation of outfalls with significant non-stormwater discharges (to be updated annually).	X[1]	December 2014 and ongoing
Detailed analysis of storm drain outfall catchment areas for any new outfall monitoring locations, outfalls identified as having significant non-stormwater discharges, and outfalls addressed by structural best management practices (BMPs).	X[2]	Ongoing
Photographs of the outfall, where possible, to provide baseline information to track operation and maintenance needs over time	X[3]	December 2014 and ongoing
Determination of whether the outfall conveys significant non-stormwater discharges.	X[1]	Ongoing
Stormwater and non-stormwater monitoring data	X[4]	Ongoing

1. The determination of significant will be made after the initial screening process outlined in this CIMP is completed.
2. Storm drain outfalls were linked in the database to the modeling subwatersheds to provide information on the contributing areas. Detailed analysis of storm drain outfall catchment areas for the stormwater outfall monitoring sites have been developed and additional detailed analysis for any new outfall monitoring locations, outfalls identified as having significant non-stormwater discharges, and outfalls addressed by structural BMPs will be conducted as needed.
3. These data will be gathered as part of the screening and monitoring program and will be added to the database as they are gathered.
4. These data will be gathered as part of the screening and monitoring program and will be added to a separate water quality database as they are gathered.

4 Stormwater Outfall Monitoring

Stormwater outfall monitoring of discharges from the MS4 support meeting three objectives including:

- Determine the quality of stormwater discharge relative to municipal action levels (MALs).
- Determine whether stormwater discharge is in compliance with applicable stormwater WQBELs derived from TMDL WLAs.
- Determine whether the discharge causes or contributes to an exceedance of RWLs.

Stormwater outfall selection and monitoring requirements are discussed below.

4.1 PROGRAM OBJECTIVES

Stormwater outfall monitoring of discharges from the MS4 support meeting three objectives including:

- Determine the quality of stormwater discharge relative to MALs.
- Determine whether stormwater discharge is in compliance with applicable stormwater WQBELs derived from TMDL WLAs.
- Determine whether the discharge causes or contributes to an exceedance of RWLs.

4.2 STORMWATER OUTFALL MONITORING SITES

The primary criteria for the stormwater outfall monitoring program is selecting monitoring sites that are representative of the range of land uses in the EWMP area and provide accurate data for measuring flows and characterizing pollutant loads. The Permit provides default requirements for one outfall site per jurisdiction per HUC-12. The default procedure was modified to select one outfall per jurisdiction. The Permit allows an alternative approach to increase the cost efficiency and effectiveness of the monitoring program. To facilitate the approval of the outfall selection process, the proposed process is demonstrated to achieve equivalent monitoring in **Attachment E**. The following subsections outline the approach to meet the MS4 Permit requirements related to stormwater outfall monitoring.

The stormwater outfall monitoring sites for the Group Members have been identified. Prior to the field investigations, a desktop analysis was performed to determine potential locations and ensure consideration of representative monitoring sites. The field investigations were then used to evaluate safety, accessibility, and suitability of the potential sites. Field investigations were performed January 17, 2013, February 7, 2014 and February 8, 2014 to evaluate potential monitoring sites.

Six stormwater outfall monitoring sites are presented in **Figure 4-1**. The selected sites are most representative of the land uses within each respective Group Member's jurisdiction based on site constraints. Potential outfalls were identified if they the minimum size requirement in the Permit and have the majority of the drainage within a particular jurisdiction were identified. Site visits of the potential outfalls were then conducted to evaluate site accessibility, available physical space for equipment installation and sampling crews, and safety of sampling crews. While land

use within an outfall catchment was used as a guide, the final selection of the most suitable outfalls was determined based on site constraints.

The data collected at the monitored outfalls will be considered representative of the MS4 discharges within each respective Group Member's jurisdiction. The stormwater outfall monitoring sites in the EWMP area are summarized in **Table 4-1**. The land uses within the outfall catchment area for the selected drains are incorporated in **Table 4-2**. For the outfalls meeting the minimum size constraint in the Permit and the drainage mostly within a particular jurisdiction, the land use within an outfall catchment was determined. While the land use within an outfall catchment was used as a guide for selecting potential outfalls, site visits were used to determine the most suitable outfalls for monitoring. Of the potential outfalls, the selection was determined considering the site accessibility, installation space, and safety. The safety of sampling crews and physical space availability were used to make the final selections to maximize the likelihood of obtaining the stormwater samples.

Table 4-1
Summary of Stormwater Outfall Monitoring Sites in the EWMP Group Area

Water Body	Group Member	Drain Name	Size	Shape	Material	Latitude	Longitude
Walnut Creek Wash	Baldwin Park	BI 1701 - Line A	126 inches	Square or Rectangle	Reinforced Conc. Box	34.062694	-117.988920
Big Dalton Wash(1,2)	Covina	BI 1123	81 inches	Round	Reinforced Conc. Pipe	34.086451	-117.915529
Big Dalton Wash	Glendora	BI 3701 - Line C	60 inches	Round	Reinforced Conc. Pipe	34.128306	-117.846414
San Jose Creek Reach(1)	Industry	BI 4301 - Industry	72 inches	Round	Reinforced Conc. Pipe	34.020765	-117.971385
Puente Creek(1,2)	La Puente	BI 4801 – Line B	66 inches	Round	Reinforced Conc. Pipe	34.033704	-117.950301
North Fork Coyote Creek	County	PD 2425 – Sorenson Ave Drain	36 inches	Square or Rectangle	Reinforced Conc. Box	33.936115	-118.036951

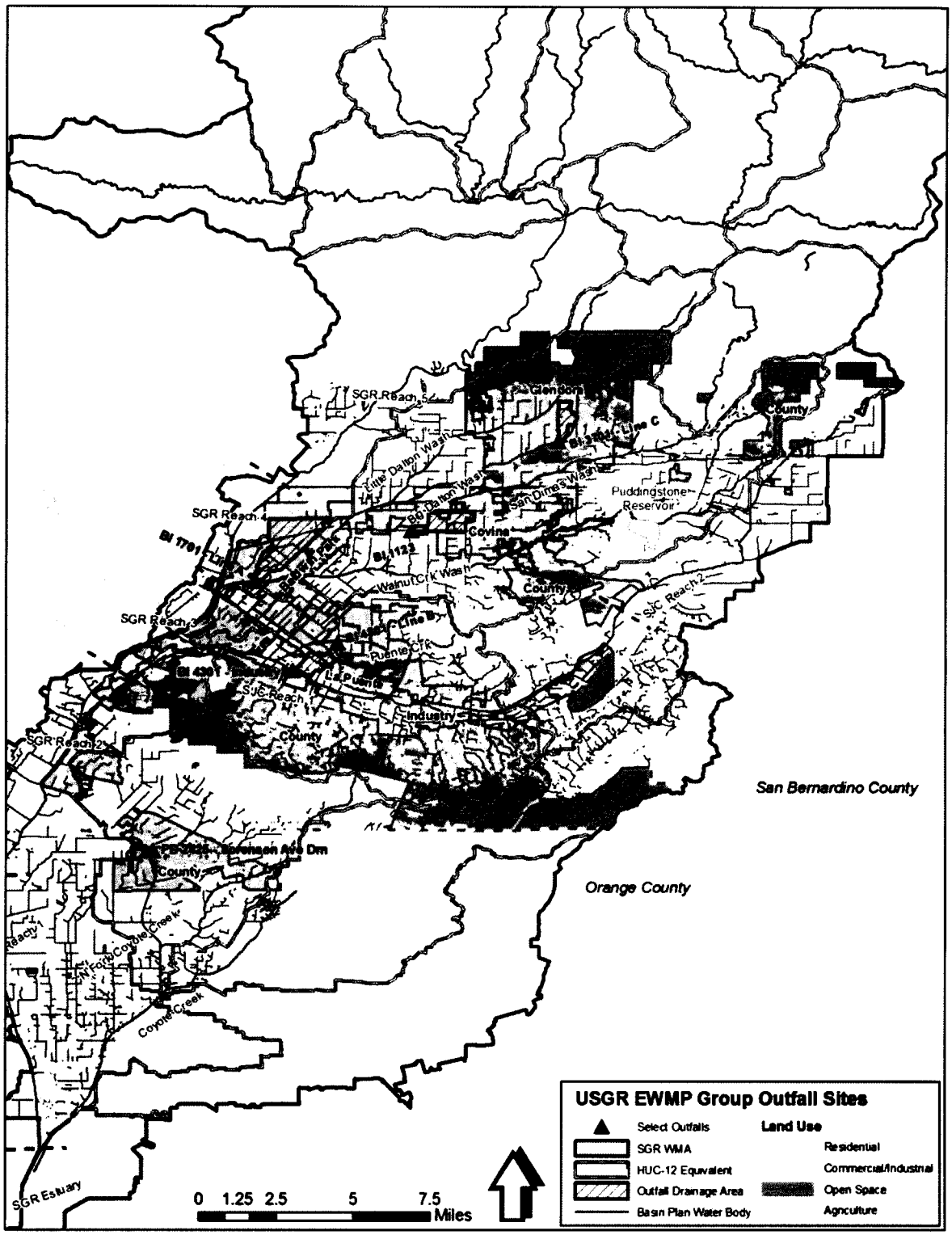
1 Drain eventually discharges to water body.
2 Manhole location.

Table 4-2
Relative Land Use Area within Drain Area to Stormwater Outfall Sites

Group Member	Area	Percent of Land Area[1]			
		Res	Com/Ind	Ag/Nur	Open
Baldwin Park	Jurisdiction	66	31	2	1
	BI 1701-Line A	75	24	0	1
Covina	Jurisdiction	65	32	<1	2
	BI 1123	66	31	0	3
Glendora	Jurisdiction	70	20	1	8
	BI 3701-Line C	90	8	1	1
Industry	Jurisdiction	<1	91	3	6
	BI 4301-Industry	5	92	0	3
La Puente	Jurisdiction	72	25	<1	3
	BI 4801-Line B	64	26	0	10
County of Los Angeles	Jurisdiction	68	20	2	11
	PD 2425	71	28	0	1

1 Land use classifications include: residential (res), commercial and industrial (com/ind), agriculture and nursery (ag/nur), and open space (open). Totals correspond to the percent of the MS4 area considered in the EWMP.

Figure 4-1
Stormwater Outfall Monitoring Sites



The stormwater outfall monitoring sites for the six jurisdictions of the EWMP Group are presented in the following subsections. Photographs of each of the stormwater outfall monitoring sites are included in **Attachment B**. If the outfall locations are found to be unsuitable due to safety concerns or other factors, the Group Members will choose an alternate outfall site from **Attachment F**. If alternate sites in **Attachment F** are not suitable, the Group Members would investigate and propose new sites to the Regional Board for approval.

4.2.1 City of Baldwin Park

The selected site for Baldwin Park is an outfall to Walnut Creek Wash, downstream of Baldwin Park Boulevard. The primary land use types for the City of Baldwin Park include: 66% residential, 31% commercial/industrial, and 1% open space. In the outfall catchment area the land use breakdowns include: 75% residential, 24% commercial/industrial, and 1% open space. The catchment area is entirely in the city limits. **Table 4-3** details relevant information for the stormwater outfall monitoring site in the City of Baldwin Park.

Table 4-3
Stormwater Outfall Monitoring Site – City of Baldwin Park

Water Body	Drain Name	Size	Shape	Material	Latitude	Longitude
Walnut Creek Wash	BI 1701 - Line A	126 inches	Square or Rectangle	Reinforced Conc. Box	34.062694	-117.988920

The primary factor contributing to the selection of the BI 1701-Line A site is its representativeness within its drainage area with respect to the primary land uses of the City of Baldwin Park. Other factors that contributed to the selection of the BI 1701-Line A site include available space for the placement of a sampling station, a drainage area which is larger than the other sites which were evaluated, and safe and easy access for set-up and tear-down of autosampling equipment.

4.2.2 City of Covina

The selected site is a manhole located on West Badillo Street and North Lark Ellen Avenue upstream from the city boundary. The drain discharges to Big Dalton Wash approximately 2 miles downstream from the selected site. The primary land use types for the City of Covina include: 65% residential, 32% commercial/industrial, and 2% open space. Land uses in the catchment area include: 66% residential, 31% commercial/industrial, and 3% open space. The catchment area is 7% County of Los Angeles, with the balance within the City of Covina. **Table 4-4** details relevant information for the stormwater outfall monitoring site in the City of Covina.

Table 4-4
Stormwater Outfall Monitoring Site – Covina

Water Body	Drain Name	Size	Shape	Material	Latitude	Longitude
Big Dalton Wash[1,2]	BI 1123	81 inches	Round	Reinforced Conc. Pipe	34.086451	-117.915529

1 Drain eventually discharges to Big Dalton Wash.
2 Manhole location.

The primary factor contributing to the selection of the BI 1123 site is its representativeness within its apparent drainage area with respect to the primary land uses of the City of Covina. Because the outfall is located outside of the City of Covina, sampling will occur at the nearest upstream manhole within the EWMP area. Other factors that contributed to the selection of the BI 1123 site include easy access to the manhole, much safer access than the other sites which were evaluated, a drainage area which is larger than the other sites which were evaluated, and being located on a wide median which allows an adequate amount of space for autosampler placement, set-up, and tear-down.

4.2.3 City of Glendora

The selected site is an outfall to Big Dalton Wash downstream from East Route 66. The primary land use types for the City of Glendora include: 70% residential, 20% commercial/ industrial, and 8% open space. The land use in the catchment area for the drain includes: 90% residential, 8% commercial/industrial, and 1% open space. The catchment area is entirely within the city limits. **Table 4-5** details relevant information for the stormwater outfall monitoring site in the City of Glendora.

Table 4-5
Stormwater Outfall Monitoring Site – Glendora

Water Body	Drain Name	Size	Shape	Material	Latitude	Longitude
Big Dalton Wash	BI 3701 - Line C	60 inches	Round	Reinforced Conc. Pipe	34.128306	-117.846414

The primary factor contributing to the selection of the BI 3701-Line C site is its representativeness within its apparent drainage area with respect to the primary land uses of the City of Glendora. Other factors that contributed to the selection of the BI 3701-Line C site include available space for the placement of a sampling station, a drainage area which is larger than the other sites which were evaluated, and safe and easy access for set-up and tear-down of autosampling equipment.

4.2.4 City of Industry

The selected site is an outfall to San Jose Creek Reach 1, located downstream of Turnbull Canyon Road. The primary land use types for the City of Industry include: 1% residential, 91% commercial/industrial, and 6% open space. The land use composition of the catchment area includes: 5% residential, 92% commercial/industrial, and 3% open space. The catchment area is 21% City of La Puente with the balance within the City of Industry. **Table 4-6** details relevant information for the stormwater outfall monitoring site in the City of Industry.

Table 4-6
Stormwater Outfall Monitoring Site – Industry

Water Body	Drain Name	Size	Shape	Material	Latitude	Longitude
San Jose Creek Reach 1	BI 4301 - Industry	72 inches	Round	Reinforced Conc. Pipe	34.020765	-117.971385

The primary factor contributing to the selection of the BI 4301-Industry site is its representativeness within its apparent drainage area with respect to the primary land uses of the City of Industry. Other factors that contributed to the selection of the BI 4301-Industry site

include available space for the placement of a sampling station, and safe and easy access for set-up and tear-down of autosampling equipment.

4.2.5 City of La Puente

The site selected for La Puente is a manhole in N Hacienda Boulevard north of the intersection with Glendora Avenue. The site is the nearest manhole upstream of the discharge to Puente Creek. The primary land use types for the City of La Puente include: 72% residential, 25% commercial/industrial, and 3% open space. Land use in the catchment area includes: 64% residential, 26% commercial/industrial, and 10% open space. The catchment area is within the city limits. **Table 4-7** details relevant information for the stormwater outfall monitoring site in the City of La Puente.

Table 4-7
Stormwater Outfall Monitoring Site – La Puente

Water Body	Drain Name	Size	Shape	Material	Latitude	Longitude
Puente Creek[1,2]	BI 4801 - Line B	66 inches	Round	Reinforced Conc. Pipe	34.033704	-117.950301

1 Drain eventually discharges to Puente Creek.
2 Manhole location.

The primary factor contributing to the selection of the BI 4801-Line B site is its representativeness within its apparent drainage area with respect to the primary land uses of the City of La Puente. Because the outfall is located at a point where Puente Creek is underground, sampling will occur at the nearest upstream manhole. Other factors that contributed to the selection of the BI 4801-Line B site include easy access to the manhole, a drainage area which is larger than the other sites which were evaluated, and being located in a location where traffic can easily be diverted around the site during set-up and tear-down of autosampling equipment.

4.2.6 County of Los Angeles

The selected site for the County of Los Angeles is an outfall to the North Fork of Coyote Creek upstream from Telegraph Road. The primary land use types for Los Angeles County unincorporated areas in the EWMP area include: 68% residential, 20% commercial/industrial, and 11% open space. Land used in the catchment area draining to the selected outfall include: 71% residential, 28% commercial/industrial, and 1% open space. The catchment area is entirely within the County island. Relevant information for the stormwater outfall monitoring site in the Los Angeles County unincorporated areas in the EWMP area is detailed in **Table 4-8**.

Table 4-8
Stormwater Outfall Monitoring Site – County of Los Angeles

Water Body	Drain Name	Size	Shape	Material	Latitude	Longitude
North Fork Coyote Creek	PD 2425 – Sorenson Ave Drain	36 inches	Square or Rectangle	Reinforced Conc. Box	33.936115	-118.036951

The primary factor contributing to the selection of the PD 2425 – Sorenson Ave Drain site is its representativeness within its apparent drainage area with respect to the primary land uses of the Los Angeles County unincorporated areas in the EWMP area. Other factors that contributed to the selection of the PD 2425 – Sorenson Ave Drain site include available space for the placement

of a sampling station, safe and easy access for set-up and tear-down of autosampling equipment, and concerns regarding possible theft or tampering with sampling equipment at the other sites which were evaluated.

4.3 PARAMETERS AND FREQUENCY FOR STORMWATER OUTFALL MONITORING

Outfalls discharging to flowing water bodies will be monitored for all required constituents during three storm events per year concurrently with receiving water monitoring, with the exception of toxicity. Toxicity monitoring is only required when triggered by recent receiving water toxicity monitoring where a toxicity identification evaluation (TIE) on the observed receiving water toxicity test was inconclusive as described further in **Section 10** of this document. The requirements for monitored constituents at each outfall are outlined in the MRP. Parameters that will be monitored at each stormwater outfall monitoring site are dependent on the receiving water to which they discharge. Parameters and frequency of stormwater monitoring are presented in **Table 4-9**. At the discretion of the EMWP Group, the data from other CIMP monitoring sites in the San Gabriel River Watershed Management Area may be used to modify the monitored constituent list. For example, the RHSGR LTA site on Little Dalton Wash may be used to evaluate the monitoring of upstream outfalls in the City of Glendora. The process for adapting monitoring parameters and locations is presented in **Sections 9** and **10**.

Table 4-9
Parameters and Frequency for Stormwater Outfall Monitoring

Constituents	Subwatershed (number of wet events per year)					
	North Fork of Coyote Creek[1]	San Gabriel River Reach		San Jose Creek Reach		Walnut Creek Wash
		3	4	1	2	
Flow, pH, DO, temperature, electrical conductivity, hardness, and TSS	3	3	3	3	3	3
Table E-2 of the MRP	(2)	(2)	(2)	(2)	(2)	(2)
Toxicity	(3)	(3)	(3)	(3)	(3)	(3)
TIE Identified Pollutants	(4)	(4)	(4)	(4)	(4)	(4)
Total and Dissolved Copper	3	3	3	3		3
Total and Dissolved Lead	3	3	3	3	3	3
Total and Dissolved Cadmium				3		
Total and Dissolved Zinc	3	3	3	3		3
PAHs[6]		3		3	3	
E. coli	3	3	3	3	3	3
Ammonia				3		
MBAS		3				
Cyanide	3	3		3		
Lindane		3				
Selenium	3			3		3
Mercury	3					3

1 The EWMP Group may consider monitoring data collected at ME Station S-13 as part of future updates to the list of constituents being monitored.

2 Two or more exceedances in the immediate downstream receiving water of Table E-2 of the MRP constituent(s) will result in the constituent(s) being added to the outfall monitoring list of constituents at 3/year.

3 Where immediate downstream receiving water wet weather monitoring observes toxicity and a subsequent TIE is inconclusive, toxicity monitoring will be added to the monitoring list at 2/year. Outfall and downstream receiving water toxicity monitoring will occur on the same event.

4 Where immediate downstream receiving water wet weather monitoring observes toxicity and a subsequent TIE identifies a constituent(s), the constituent(s) will be added to the monitoring list at 3/year. The monitoring for the additional constituent (s) will commence at the scheduled event following notification of TIE results.

5 PAHs include: Benzo(a)pyrene, 3,4 Benzofluoranthene, Benzo(k)flouranthene, Chrysene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene

4.4 STORMWATER OUTFALL MONITORING SUMMARY

A summary of how the stormwater outfall monitoring program meets the intended objectives of the stormwater outfall monitoring program outlined in Part VIII.A of the MRP is presented in **Table 4-10**.

Table 4-10
Summary of Stormwater Outfall Monitoring Program Objectives

MRP Objective	CIMP Component Meeting Objective
Determine the quality of a Permittee's discharge relative to municipal action levels, as described in Attachment G of MS4 Permit.	• Stormwater outfall monitoring sites chosen using a representative land use approach. • Extensive list of constituents being collectively monitored at stormwater outfall monitoring sites.
Determine whether a Permittee's discharge is in compliance with applicable WQBELs derived from TMDL WLAs.	• Stormwater outfall monitoring sites located in water bodies with applicable WQBELs. • Stormwater outfall monitoring sites chosen using a representative land use approach. • List of constituents based on the water quality priorities which includes constituents with WQBELs derived from TMDL WLAs and considers current and historical exceedances in receiving waters.
Determine whether a Permittee's discharge causes or contributes to an exceedance of RWLs.	• Stormwater outfall monitoring sites chosen to be representative of each subwatershed. • Monitoring frequency equal to receiving water monitoring frequency to enable determination of whether the Permittee's discharge is causing or contributing to any observed exceedances of water quality objectives in the receiving water. • Stormwater outfall monitoring sites chosen using a representative land use approach. • List of constituents based on the monitoring requirements of the water body to which they discharge, as well as downstream water bodies.

5 Non-Stormwater Outfall Program

Objectives of the non-stormwater outfall monitoring include the following:

- Determine whether a discharge is in compliance with applicable non-stormwater WQBELs derived from TMDL WLAs.
- Determine whether a discharge exceeds non-stormwater action levels (NALs).
- Determine whether a discharge contributes to or causes an exceedance of RWLs.
- Assist in identifying illicit discharges.

Additionally, the outfall screening and monitoring process is intended to prioritize outfalls for assessment and, where appropriate, scheduling of BMPs to address the non-stormwater flows.

The non-stormwater outfall screening and monitoring program is focused on dry weather discharges to receiving waters from major outfalls. The program serves two roles: The first is to assess whether the non-stormwater discharge is allowable, and the second is to provide monitoring to determine whether the non-stormwater constituent load is adversely impacting the receiving water. The non-stormwater outfall program is designed to be complimentary to the illicit connection/illicit discharge (IC/ID) minimum control measures (MCMs).

Additionally, the outfall screening and monitoring process is intended to meet the following objectives (Part IX.A of the MRP):

1. Develop criteria or other means to ensure that all outfalls with significant non-stormwater discharges are identified and assessed during the term of the Permit.
2. For outfalls determined to have significant non-stormwater flow, determine whether flows are the result of IC/IDs, authorized or conditionally exempt non-stormwater flows, natural flows, or from unknown sources.
3. Refer information related to identified IC/IDs to the IC/ID Elimination Program (Part VI.D.10 of the Permit) for appropriate action.
4. Based on existing screening or monitoring data or other institutional knowledge, assess the impact of non-stormwater discharges (other than identified IC/IDs) on the receiving water.
5. Prioritize monitoring of outfalls considering the potential threat to the receiving water and applicable TMDL compliance schedules.
6. Conduct monitoring or assess existing monitoring data to determine the impact of non-stormwater discharges on the receiving water.
7. Conduct monitoring or other investigations to identify the source of pollutants in non-stormwater discharges.
8. Use results of the screening process to evaluate the conditionally exempt non-stormwater discharges identified in Parts III.A.2 and III.A.3 of the Permit and take appropriate actions pursuant to Part III.A.4.d of the Permit for those discharges that have been found to be a source of pollutants. Any future reclassification shall occur per the conditions in Parts III.A.2 or III.A.6 of the Permit.
9. Maximize the use of resources by integrating the screening and monitoring process into existing or planned Integrated Monitoring Plan and/or CIMP efforts.

In summary, the intent of the non-stormwater outfall program is to demonstrate that the Group Members are effectively prohibiting non-exempt or conditionally non-exempt discharges to receiving waters and to assess whether non-stormwater discharges are causing or contributing to exceedances of RWLs. Where the discharges are deemed "significant", the program will discern whether they are illicit, exempt, or conditionally exempt. Furthermore, following the program procedures will allow determination of whether the discharges may be causing or contributing to exceedances of RWLs.

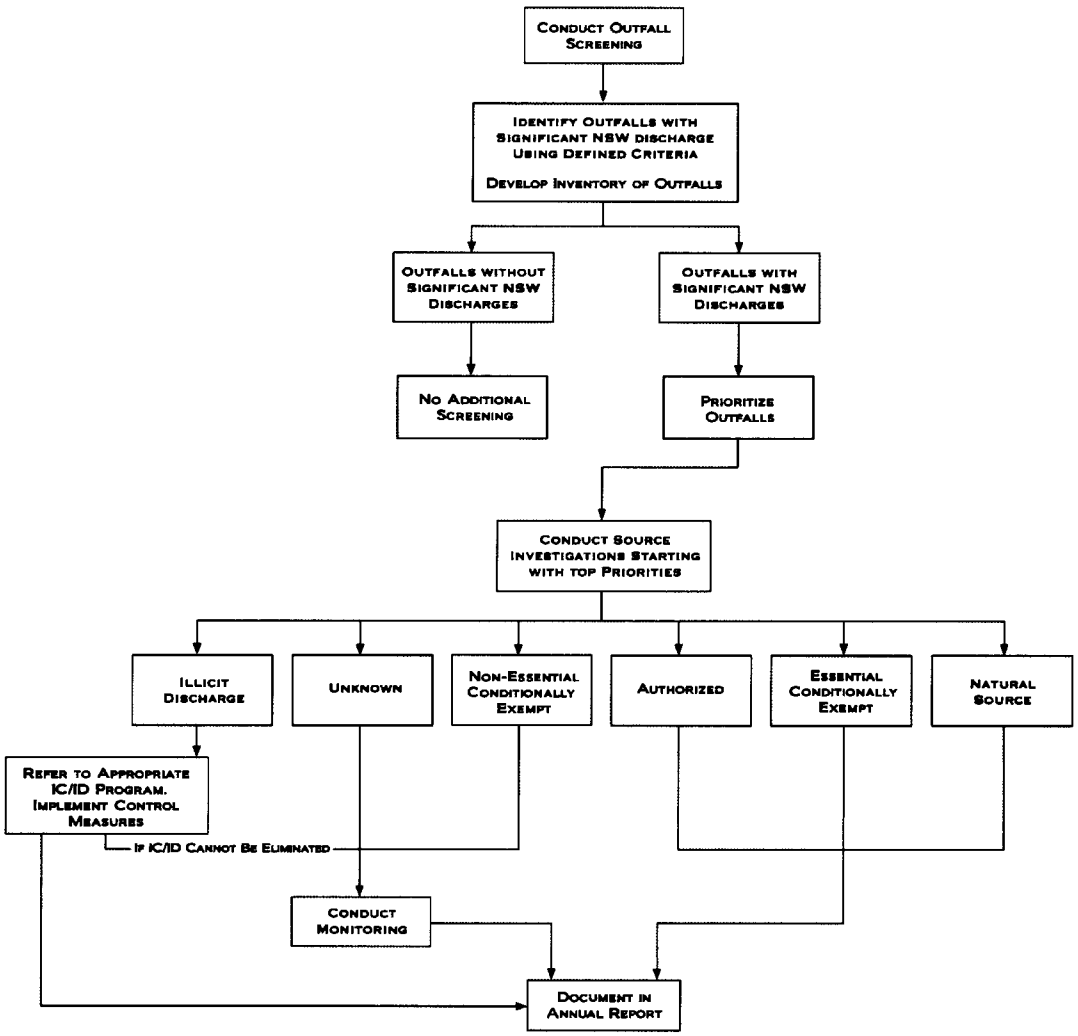
5.1 NON-STORMWATER OUTFALL SCREENING AND MONITORING PROGRAM

The Permit specifies a process for screening, investigating, and ultimately monitoring of outfalls with non-stormwater discharges. For the receiving water and stormwater monitoring programs, sufficient information is available, including guidance from the MRP, to support the identification of sites and begin the process of initiating water quality monitoring upon approval of this CIMP. For the non-stormwater outfall program, the MRP specifies a process for screening, investigating, and ultimately monitoring. The outfall screening and investigation must be completed prior to initiating monitoring for all constituents of interest at an individual outfall. A summary of the approach to address the required elements of the non-stormwater outfall program is presented in **Table 5-1**. A flowchart of the program is presented as **Figure 5-1**. Detailed discussion of each element is provided in the following subsections.

Table 5-1
Non-Stormwater Outfall Screening and Monitoring Program Summary

Element	Description	Implementation Dates
Outfall Screening	A screening process will be implemented to collect data for determining which outfalls exhibit significant non-stormwater discharges.	The screening process will begin summer 2014
Inventory and Identification of outfalls with non-stormwater discharge	Based on data collected during the Outfall Screening process, identify non-stormwater discharges.	
Inventory of outfalls with non-stormwater discharge	Develop an inventory of major MS4 outfalls with known significant non-stormwater discharges and those requiring no further assessment.	
Prioritized source investigation	Use the data collected during the screening process to determine significant discharges and prioritize outfalls for source investigations.	
Identify sources of significant non-stormwater discharges	Perform source investigations per the prioritization schedule. If not exempt or unknown, determine abatement process.	Source investigations will be conducted for at least 25% of the significant non-stormwater discharges by the end of December 28, 2015, and 100% by December 28, 2017.
Monitoring non-stormwater discharges exceeding criteria	Monitor outfalls that have been determined to convey significant non-stormwater discharges comprised of either unknown or non-essential conditionally exempt non-stormwater discharges, or continuing discharges attributed to illicit discharges.	First regularly scheduled dry weather monitoring event after completing source investigation or after the CIMP has been approved by the Executive Officer, whichever is later.

Figure 5-1
Non-Stormwater Outfall Program Flow Diagram



5.2 IDENTIFICATION OF OUTFALLS WITH SIGNIFICANT NON-STORMWATER DISCHARGES

The Group Members will begin developing an outfall inventory and anticipates conducting outfall screening events in summer 2014. Information to identify major outfalls exhibiting significant non-stormwater discharges will be collected during the screening events. The Group Members propose using one or more of the following characteristics to determine significant non-stormwater discharges:

- Discharges from major outfalls subject to dry weather TMDLs.
- Discharges for which monitoring data exceeds NALs.

- Major outfalls observed to have Greater Than Garden Hose flows at two or more screening events
- Inaccessible major outfalls observed to have Greater Than Garden Hose Flows at the nearest downstream receiving water or nearest upstream manhole at two or more screening events
- Discharges into receiving waters with flows at the point of discharge

To collect data for determining the significant non-stormwater outfalls, the Group Members will perform three dry-weather screening events for outfalls within the EWMP area. The initial screening provides the dual purpose of data collection for completing the outfall database and initial evaluation of outfalls. Outfalls greater than 12 inches in diameter will be visited during the first screening event. The second and third screening events will collect visual information on outfalls greater than 36 inches in diameter and outfalls between 12 inches and 36 inches in diameter if they are near industrial areas. A standard form will be used to collect characteristic data, consisting of:

- Receiving water channel bottom
- Presence of water in channel
- Visual estimate of discharge flow rate
    - No Flow/Wet (0 gallons per minute (gpm))
    - Trickle (< 2 gpm)
    - Garden Hose (2-10 gpm)
    - Greater than Garden Hose (>10 gpm)
- Whether discharge ponds in the channel or reaches a flowing receiving water
- Clarity
- Presence of odors or foam.

Data collected through the screening process are the characteristics that will be utilized to determine which outfalls should be targeted for the next steps in the non-stormwater outfall program. The characteristics utilized will support a focus on discharges that have, or the potential to have, an impact on receiving waters. The receiving waters within the EWMP area discharge to various downstream water bodies. The components of the outfall screening process are presented in **Table 5-2**. The determination of significance will be made after the three screenings have been completed and the characteristics have been reviewed.

Table 5-2
Approach for Establishing a Non-Stormwater Outfall Screening Process

Component	Description
Data Collection	Data include qualitative flow size, channel bottom, ponding of discharge, clarity, color, and odor. Any additional information needed to complete the inventory will be collected. Land use and permitted dischargers will be considered in the evaluation with field data to determine significant non-stormwater discharge.
Frequency	Three field screening events will be conducted for outfalls within the EWMP area. The first event will collect visual information on outfalls greater than 12 inches in diameter. The second and third events will collect visual information on outfalls greater than 36 inches in diameter and outfalls between 12 inches and 36 inches in diameter if they are near industrial areas.
Defining Significant Discharges	Will be determined after screening events are completed. Visual information from the screening, such as flow size persistent flow, flow condition in receiving water, may be considered to determine significant discharges.
Timeline	The non-stormwater outfall screening process will begin in the Summer of 2014.

5.3 INVENTORY OF MS4 OUTFALLS WITH NON-STORMWATER DISCHARGES

An inventory of MS4 outfalls greater than 12 inches in diameter will be developed in a GIS format from the first screening. After three screening events, those outfalls with observed significant non-stormwater discharges and those requiring no further assessment will be identified and the database will be updated. If the MS4 outfall requires no further assessment, the database will include a data field to retain the rationale for no further action required. Rationale for a determination of no future action would be expected to include, but not limited to, 1) the outfall does not have flow; 2) the outfall does not have a known significant non-stormwater discharge; 3) discharges observed were determined to be exempt; and 4) the immediate downstream receiving water has no flow. Each year, the database will be updated to incorporate the most recent characterization data for outfalls with significant non-stormwater discharges.

Physical attributes of outfalls with significant non-stormwater discharges will be collected as part of the MS4 outfall database process described in **Section 3** include the following:

a. Date and time of last visual observation or inspection
b. Outfall alpha-numeric identifier
c. Description of outfall structure including size (e.g., diameter and shape)
d. Description of receiving water at the point of discharge (e.g., natural, soft-bottom with armored sides, trapezoidal, concrete channel)
e. Latitude/longitude coordinates
f. Nearest street address
g. Parking, access, and safety considerations
h. Photographs of outfall condition
i. Photographs of significant non-stormwater discharge or indicators of discharge unless safety considerations preclude obtaining photographs
j. Visual estimation of discharge rate
k. All diversions either upstream or downstream of the outfall

l. Observations regarding discharge characteristics such as odor, color, presence of debris, floatables, or characteristics that could aid in pollutant source identification.
m. Flow condition in the receiving water at the point of discharge (dry, ponding, flowing, or tidal influence).

5.4 PRIORITIZED SOURCES IDENTIFICATION

Once the major outfalls exhibiting significant non-stormwater discharges have been identified through the screening process, the Group Members will prioritize the outfalls for further source investigations. The MRP identifies the following prioritization criteria for outfalls with significant non-stormwater discharges:

- Outfalls discharging directly to receiving waters with WQBELs or RWLs in the TMDL provisions for which final compliance deadlines have passed.
- All major outfalls and other outfalls that discharge to a receiving water subject to a TMDL shall be prioritized according to TMDL compliance schedules.
- Outfalls for which monitoring data exist and indicate recurring exceedances of one or more of the Action Levels identified in Attachment G of the Permit.
- All other major outfalls identified to have significant non-stormwater discharges.

Data collected during the three screenings may be used to refine the determination of significance. Once the prioritization is complete, a source identification schedule will be developed. The scheduling will focus on the outfalls with the highest ranking first. Unless the results of the field screening justify a modification to the schedule in the MRP, the schedule will ensure that source investigations are completed on no less than 25% of the outfalls with significant non-stormwater discharges by December 28, 2015 and 100% by December 28, 2017.

5.5 SIGNIFICANT NON-STORMWATER DISCHARGE SOURCE IDENTIFICATION

The screening and source identification component of the program is used to identify the source(s) and point(s) of origin of the non-stormwater discharge. Based on the prioritized list of major outfalls with significant non-stormwater discharges, investigations will be conducted to identify the sources of non-stormwater flows.

Source investigations will be conducted using site-specific procedures based on the characteristics of the non-stormwater discharge. Investigations could include:

- Gathering field measurements to characterize the discharge.
- Following dry weather flows from the location where they are first observed in an upstream direction along the conveyance system.
- Compiling and reviewing available resources including past monitoring and investigation data, land use/MS4 maps, aerial photography, and property ownership information.

Part IX.A.2 of the MRP requires each Group Member to classify the source investigation results into one of four endpoints outlined as follows and summarized in **Table 5-3**:

A. IC/IDs: If the source is determined to be an illicit discharge, the Group Member must implement procedures to eliminate the discharge consistent with IC/ID requirements and document actions.

B. Authorized or conditionally exempt non-stormwater discharges: If the source is determined to be an NPDES permitted discharge, a discharge subject to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), or a conditionally exempt essential discharge, the Group Member must document the source. For non-essential conditionally exempt discharges, the Group Member must conduct monitoring consistent with the MRP to determine whether the discharge should remain conditionally exempt or be prohibited.

C. Natural flows: If the source is determined to be natural flows, the Group Member must document the source.

D. Unknown sources: If the source is unknown, the Group Member must conduct monitoring consistent with the MRP.

Table 5-3
Summary of Endpoints for Source Identification

Endpoint	Follow-up	Action Required by Permit
A. Illicit Discharge or Connection	Refer to IC/ID program	Implement control measures and report in annual report. Monitor if cannot be eliminated.
B. Authorized or Conditionally Exempt Discharges[1]	Document and identify if essential or non-essential	Monitor non-essential discharges
C. Natural Flows	End investigation	Document and report in annual report
D. Unknown	Refer to IC/ID program	Monitor

1 Discharges authorized by a separate NPDES permit, a discharge subject to a Record of Decision approved by USEPA pursuant to section 121 of CERCLA, or is a conditionally exempt non-stormwater discharge addressed by other requirements. Conditionally exempt non-stormwater discharges addressed by other requirements are described in detail in Part III.A. Prohibitions – non-stormwater Discharges of the Permit.

Where investigations determine the non-stormwater source to be authorized, natural, or essential conditionally exempt flows, the Group Member's will conclude the investigation and move to next highest priority outfall for investigation. Where investigations determine that the source of the discharge is non-essential conditionally exempt, an illicit discharge, or is unknown – further investigation may be conducted to eliminate the discharge or demonstrate that it is not causing or contributing to receiving water problems. In some cases, source investigations may ultimately lead to prioritized programmatic or structural BMPs to address the non-stormwater discharge. If required, modifications to programs or implementation of structural BMP implementation will be incorporated into the implementation schedule developed for the EWMP. Once addressed, the outfall will then be lowered in priority for investigation, such that the next highest priority outfall can be addressed.

5.6 NON-STORMWATER DISCHARGE MONITORING

As outlined in the MRP, outfalls with significant non-stormwater discharges that remain unaddressed after source investigation shall be monitored to meet the following objectives:

a. Determine whether a discharge is in compliance with applicable non-stormwater WQBELs derived from TMDL WLAs;
b. Determine the quality of a discharge exceeds NALs, as described in Attachment G of the Permit; and
c. Determine whether a discharge causes or contributes to an exceedance of RWLs.

As identified in **Table 5-3**, outfalls that have been determined to convey significant non-stormwater discharges where the source investigations concluded that the source is attributable to a continued illicit discharge (Endpoint A), non-essential conditionally exempt (Endpoint B), or unknown (Endpoint D) must be monitored. Monitoring will begin at the next regularly scheduled dry weather event after completing a source investigation or after the EO approves the CIMP, whichever is later in time. The non-stormwater outfall monitoring will be conducted coincidently with the dry weather receiving water monitoring.

5.6.1 Non-Stormwater Outfall-Based Monitoring Sites

The non-stormwater outfall monitoring sites will be determined after source investigation of significant non-stormwater discharges is concluded. The information to determine the number and location of outfalls requiring monitoring will be available after the screening is completed.

5.6.2 Monitored Parameters, and Frequency of Monitoring

Outfalls with significant non-stormwater discharges that remain unaddressed after source investigation shall be monitored to meet the following objectives:

a. Determine whether a Permittee's discharge is in compliance with applicable non-stormwater WQBELs derived from TMDL WLAs;
b. Determine whether the quality of a Permittee's discharge exceeds non-stormwater action levels, as described in Attachment G of the Permit; and,
c. Determine whether a Permittee's discharge causes or contributes to an exceedance of RWLs.

The requirements for constituents to be monitored are outlined in the Part VIII.G.1.a-e of the MRP. Outfalls will be monitored for all required constituents except toxicity. Toxicity monitoring is only required when triggered by recent receiving water toxicity monitoring where a TIE on the observed dry weather receiving water toxicity test was inconclusive. A list of parameters applicable to non-stormwater outfall monitoring, based on which receiving water the outfall discharges to, is presented in **Table 5-4**. The list of constituents is adjusted per the adaptive management process. Constituents are added or removed based on the triggers listed in **Section 10**.

Table 5-4
Parameters and Frequency for Non-Stormwater Outfall Monitoring

Constituents	Subwatershed (dry weather events per year)								
	Coyote Creek	North Fork of Coyote Creek	San Gabriel River Reach				San Jose Creek Reach		Walnut Creek Wash
			2	3	4	5	1	2	
Flow, pH, dissolved oxygen, temperature, EC, hardness, and TSS	2	2	2	2	2	2	2	2	2
Table E-2 of the MRP	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
TIE Identified Pollutants	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Toxicity	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Total and Dissolved Copper	2	2	2	2	2	2	2	2	2
Total and Dissolved Lead	2	2	2	2	2	2	2	2	2
Total and Dissolved Nickel	2								
Total and Dissolved Zinc	2	2	2	2	2	2	2	2	2
Total and Dissolved Cadmium							2		
Selenium		2					2	2	2
PAHs(1)			2	2			2	2	
E. coli	2	2	2	2	2	2	2	2	2
Ammonia	2						2		
Cyanide	2	2	2	2			2		
MBAS	2			2					
Diazinon	2								
Mercury		2							2
Lindane				2					
Alpha-Endosulfan	2								
Chloride	2			2			2	2	
Sulfate				2			2	2	
TDS				2			2		

1 Two or more exceedances in the immediate downstream receiving water of Table E-2 of the MRP constituent(s) will result in the constituent(s) being added to the non-stormwater monitoring list at 2/year.

2 Where immediate downstream receiving water dry weather monitoring observes toxicity and a subsequent TIE identifies a constituent(s), the constituent(s) will be added to the monitoring list at 2/year. The monitoring for the additional constituent(s) will commence at the scheduled event following notification of TIE results.

3 Where immediate downstream receiving water dry weather monitoring observes toxicity and a subsequent TIE is inconclusive, toxicity monitoring will be added to the monitoring list at 1/year. Outfall and downstream receiving water toxicity monitoring will occur on the same event.

4. PAHs include: Benzo(a)pyrene, 3,4 Benzofluoranthene, Benzo(k)flouranthene, Chrysene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene

The MRP specifies the following monitoring frequency for non-stormwater outfall monitoring as:

- For outfalls subject to a dry weather TMDL, the monitoring frequency shall be per the approved TMDL monitoring plan or as otherwise specified in the TMDL or as specified in an approved CIMP.
- For outfalls not subject to dry weather TMDLs, approximately quarterly for first year.
- Monitoring can be eliminated or reduced to twice per year, beginning in the second year of monitoring if pollutant concentrations measured during the first year do not exceed WQBELs, NALs or water quality standards for pollutants identified on the 303(d) List.

While a monitoring frequency of four times per year is specified in the Permit, it is inconsistent with the dry weather receiving water monitoring requirements. The receiving water monitoring requires two dry weather monitoring events per year. By coordinating the monitoring with the receiving water events the discharge can be compared to the watershed conditions. As a result, the Group Members intend to conduct non-stormwater outfall monitoring events twice per year. The non-stormwater outfall monitoring events will be coordinated with the dry weather receiving water monitoring events to allow for an evaluation of whether the non-stormwater discharges are causing or contributing to an observed exceedance of water quality objectives in the receiving water.

5.6.3 Adaptive Monitoring

Monitoring for non-stormwater discharges will be more dynamic than either the receiving water or stormwater outfall monitoring. As non-stormwater discharges are addressed, monitoring at the outfall will cease. Additionally, if monitoring demonstrates that discharges do not exceed any WQBELs, NALs, or water quality standards for pollutants identified on the 303(d) list, monitoring will cease at an outfall after the first year. Thus, the number and location of outfalls monitored has the potential to change on an annual basis. The process for adapting monitoring locations and frequency is presented in **Section 9 and 10**.

5.7 NON-STORMWATER OUTFALL MONITORING SUMMARY

Non-stormwater outfall monitoring sites will be determined after the screening events are completed and significant discharges are identified. Parameters that will be monitored at each non-stormwater outfall site will depend upon the receiving water to which the non-stormwater outfall monitoring site discharges. A summary of how the non-stormwater outfall monitoring program meets the intended objectives of the non-stormwater outfall monitoring program outlined in Part II.E.3 of the MRP is presented in **Table 5-5**.

Table 5-5
Summary of Non-Stormwater Outfall Monitoring Program Objectives

MRP Objective	CIMP Component Meeting Objective
Determine whether a Permittee's discharge is in compliance with applicable non-stormwater WQBELs derived from TMDL WLAs	• List of constituents based on the water quality priorities which incorporate constituents with WQBELs derived from TMDL WLAs and considers current and historical exceedances in receiving waters.
Determine whether a Permittee's discharge exceeds non-stormwater action levels, as described in Attachment G of the MS4 Permit.	• Extensive list of constituents being collectively monitored at non-stormwater outfall monitoring sites.
Determine whether a Permittee's discharge causes or contributes to an exceedance of RWLs.	• List of constituents based on the monitoring requirements of the water body to which they discharge, as well as downstream water bodies.
Assist a Permittee in identifying illicit discharges as described in Part VI.D.10 of the MS4 Permit.	• Non-stormwater outfall program is designed to be complimentary to IC/ID program. • Where non-stormwater discharges are deemed "significant", the non-stormwater outfall program will discern whether the discharges are illicit, exempt, or conditionally exempt. • If the source identification component of the non-stormwater outfall program determines a discharge to be an illicit discharge, the discharge will be referred to the IC/ID program.

6 New Development/Re-Development Effectiveness Tracking

Group Members have developed mechanisms for tracking information related to new and redevelopment projects that are subject to post-construction BMP requirements in Part VI.D.7 of the Permit. The specific data to be tracked is listed in Part X.A of the MRP are listed in **Table 6-1**. The data will be used to assess the effectiveness of the low-impact development (LID) requirements for land development and to fulfill reporting requirements. Although the data requirements are clear, the procedures for reviewing projects, tracking data, and reporting are different for each jurisdiction and may even be different across departments within the same jurisdiction. Due to the complexity of land development processes across jurisdictions, data management and tracking procedures will vary by jurisdiction.

Table 6-1
Required Data to Track for New and Redevelopment Projects per Part X.A of the MRP

✓ Name of the Project	✓ Project design storm volume (gallons or million gallons per day)
✓ Name of the Developer	✓ Percent of design storm volume to be retained onsite
✓ Project location and map[1]	✓ Design volume for water quality mitigation treatment BMPs (if any)
✓ Documentation of issuance of requirements to the developer	✓ One year, one hour storm intensity[2] (if flow through treatment BMPs are approved)
✓ 85th percentile storm event for the project design (inches per 24 hours)	✓ Percent of design storm volume to be infiltrated at an offsite mitigation or groundwater replenishment site
✓ 95th percentile storm event for projects draining to natural water bodies (inches per 24 hours)	✓ Percent of design storm volume to be retained or treated with biofiltration at an offsite retrofit project
✓ Other design criteria required to meet hydromodification requirements for drainages to natural water bodies	✓ Location and maps of offsite mitigation, groundwater replenishment, or retrofit sites[1]
✓ Project design storm (inches per 24 hours)	✓ Date of Certificate of Occupancy

1. Preferably linked to the GIS Storm Drain Map
2. As depicted on the most recently issued isohyetal map published by the Los Angeles County hydrologist

The Standard Urban Stormwater Mitigation Program (SUSMP) requirements implemented under the previous MS4 Permit (Order R4-01-182) laid the foundation for the MCMs contained in Part VI.D.7 of the current MS4 Permit. With implementation of the SUSMP, Permittees required post construction BMPs on applicable projects, developed standard requirements for project submittals, and began to track related data. The Group Members will build on the existing procedures for land development to ensure that all required project data is captured.

Internal procedures and data protocols that clearly define departmental roles and responsibilities pertaining to data collection, data management, and tracking will be utilized. These procedures will include points in the process where data are generated and tracked, who is responsible for tracking the data, and how the data will be managed. Data management protocols and internal

procedures, will also consider the land development data tracking requirements contained in Part VI.D.7.d.iv.(1)(a). These requirements are distinct from those listed in the MRP but will be addressed similarly. Data requirements under Part VI.D are contained in **Table 6-2**.

Table 6-2
Required Data to Track for New and Redevelopment Projects per Part VI.D.7.d.iv.(1)(a)

✓ Municipal Project ID	✓ Maintenance Records
✓ State Waste Discharge Identification Number	✓ Inspection Date(s)
✓ Project Acreage	✓ Inspection Summary(ies)
✓ BMP Type and Description	✓ Corrective Action(s)
✓ BMP Location (coordinates)	✓ Date Certificate of Occupancy Issued
✓ Date of Acceptance	✓ Replacement or Repair Date
✓ Date of Maintenance Agreement	

7 Regional Studies

The LACFCD will continue to participate in the Regional Watershed Monitoring Program (Bioassessment Program) being managed by the Southern California Stormwater Monitoring Coalition Regional Watershed Monitoring Program. The LACFCD will contribute necessary resources to implement the bioassessment monitoring requirements of the MS4 permit on behalf of all permitees in Los Angeles County during the current permit cycle. Initiated in 2008, the SMC's Regional Bioassessment Program is designed to run over a five-year cycle.. Monitoring under the first cycle concluded in 2013, with reporting of findings and additional special studies planned to occur in 2014. SMC, including LACFCD, is currently working on designing the bioassessment monitoring program for the next five-year cycle, which is scheduled to run from 2015 to 2019.

8 Non-Direct Measurements

Water quality data collected through other monitoring programs (e.g., WRPs receiving water monitoring) in the watershed will be evaluated to the extent practicable. The extent practicable will be dictated by the cost of gathering and compiling information from outside programs. It is not the intent or purpose of the CIMP to compile and analyze all available data. Data reported by these entities will be evaluated for suitability for inclusion in the CIMP database. If the data are deemed to be suitable they will be included in the database described in **Section 11**. Data from other programs will be used to supplement land use data to evaluate loading to the receiving water as well as to evaluate receiving water quality. Environmental data reported by other entities will be evaluated for suitability for inclusion in this CIMP database and will be accepted if it meets the following requirements:

- Conducted and documented consistent with the sampling procedures outlined in this CIMP.
- Sampling collection is performed and documented by a competent party consistent with applicable guidance and this CIMP.
- Sample analysis is conducted using approved analytical method by a certified analytical laboratory.

Receiving water monitoring sites were selected to allow coordination between this CIMP and LACSD receiving water monitoring programs. Currently, the San Gabriel River estuary site, R-8, will be used for dry weather Harbors Toxics TMDL monitoring requirements. The methods and analytical levels for the LACSD monitoring program are listed in **Attachment C**.

Currently, LACFCD operates the existing mass emission stations. Data collected by the LACFCD will be used to assess the LTA monitoring requirements. The methods and analytical levels for the LACFCD program are listed in **Attachment C**.

Due to the absence of previously collected monitoring results, an understanding has not been obtained of the extent to which pollutants associated with suspended sediment being discharged from the MS4 may be causing or contributing to the impairments identified in the Harbor Toxics TMDL. As such, to gain a clear understanding, environmental data representative of the entire San Gabriel River Watershed Management Area will be collected downstream of the EWMP area and directly used for suspended sediment monitoring associated with meeting the requirements of the Harbor Toxics TMDL. The downstream LSGR WMP Group will conduct wet weather suspended sediment monitoring associated with meeting the requirements of the Harbor Toxics TMDL.

Non-direct measurements of flow and rainfall information will be obtained from the LACFCD as described in **Attachment C**.

9 Monitoring Procedures

A general outline of the monitoring procedures is presented in this section. Detailed discussion of the procedures is included in **Attachment C**.

9.1 MONITORING PROCEDURES

Monitoring will occur during dry and wet conditions. The period of record from USGS 11085000 flow gage measuring discharge from the Santa Fe Dam contains approximately 60% of years there with zero discharge from the dam, due to the capacity available in Santa Fe Dam, two upstream dams, and the rapid infiltration rate of the riverbed. The SGR Metals TMDL specifies San Gabriel River wet conditions when flow is measures at 260 cfs or greater from the gage. The rational in the TMDL for specifying 260 cfs is the upper portion of the watershed would be hydrologically connected to the lower portion. Because there are years with zero discharge, defining wet weather conditions using the measured flowrate is problematic. Rather, the definitions for wet and dry weather for the USGR CIMP is as follows:

> Wet weather condition for triggering storm events will be defined as a 70% probable forecast of greater than 0.25 inches of precipitation of rain where the preceding 72 hours were dry weather with less than 0.1 inches of rain. To qualify the event as wet weather, the receiving water flow would need to be measured greater than 20% over the base flow.
>
> Dry weather is defined in the MRP as when the flow of the receiving water body is less than 20 percent greater than the base flow or, in the case of an estuary, on days with less than 0.1 inch of rain and those days not less than three days after a rain event of 0.1 inch or greater within the watershed, as measured from at least 50 percent of Los Angeles County Department of Public Works (LACDPW) controlled rain gauges within the watershed.

Note that if rainfall begins after dry weather monitoring has been initiated, then dry weather monitoring will be suspended and continued on a subsequent day when weather conditions meet the dry weather conditions. Generally, grab samples will be collected during dry weather and composite samples will be collected during wet weather. Grab samples will be used for dry weather sampling events as the composition of the receiving water will change less over time; and thus, the grab samples sufficiently characterize the receiving water. Additionally, grab samples for dry weather are consistent with similar programs throughout the region.

However, composite samples will be used for wet weather sampling events to sufficiently characterize the receiving water during wet weather. Grab samples may be utilized to collect wet weather sampling in certain situations, which may include, but are not limited to, when the constituent of interest requires the use of grab samples (e.g., *E. coli*; oil and grease), conditions are considered unsafe to collect composite samples, or to perform investigative monitoring where composite sampling or installation of an automatic sample compositor (autosampler) may not be warranted. Usually, autosamplers are used to capture the storm. The program will target the first 24 hours of the storm water discharge or for the entire storm water discharge if it is less than 24 hours. Additionally, if autosamplers fail during a rain event, or if the rain event is such that composite samples cannot be collected (e.g., very short in duration or volume), grab samples will be collected will be collected every 20 minutes for 3 hours or the duration of the storm, if it

is less than 3 hours, and submitted for analysis for all analytes. For those events and sites where aquatic toxicity testing is required, grab volumes will be adjusted such that enough water is collected to perform the required analyses. (Reference: EPA NPDES Storm Water Sampling Guidance Document EPA 833-B-92-001, 40 CFR 122.21 (g)(7)(ii).)

For dry weather toxicity monitoring, the sampling event must take place during the historically driest month. A review of the long-term precipitation record results in July being the driest month, on average. As a result, the dry weather monitoring event that includes toxicity monitoring will be conducted in July. The second dry weather monitoring event will take place during January unless sampling during another month is deemed to be necessary or preferable.

All reasonable efforts will be made to monitor the first significant rain event of the storm year (first flush). The targeted storm events for wet weather sampling will be selected based on a reasonable probability that the events will result in substantially increased flows in the San Gabriel River over at least 12 hours. Sufficient precipitation is needed to produce runoff and increase flow. The decision to sample a storm event will be made in consultation with weather forecasting information services after a quantitative precipitation forecast has been determined. All efforts will be made to collect wet weather samples from all sites during a single targeted storm event. Because a significant storm event is based on predicted rainfall, it is recognized that this monitoring may be triggered without 0.25 inches of rainfall actually occurring. In this case, the monitoring event will still qualify as meeting this requirement provided that sufficient sample volume is collected to do all required laboratory analysis. Documentation will be provided showing the predicted rainfall amount as part of the event summary in the annual report. However, safety or other factors may make it infeasible to collect some or all samples from a given storm event. For example, storm events that will require field crews to collect wet weather samples during holidays and/or weekends may not be sampled due to sample collection or laboratory staffing constraints.

Additional information to support evaluating weather conditions, collecting grab and composite samples, and targeting wet weather sampling events is provided in **Attachment C**.

9.2 ADAPTIVE MONITORING TRIGGERS

Monitoring of a specific constituent will be considered for elimination if:

- For a WBPC covered in a TMDL, no exceedances are observed over a five-year period.
- For a WBPC on the 303(d) list, data collected are sufficient to support delisting per State policy.
- WBPC being monitored due to downstream 303(d) listings, two years of monitoring of no exceedances are observed for the same condition as the listing (i.e., wet or dry weather).
- Category 3C WBPCs having no exceedances over two years.

If the nearest downstream LTA or TMDL receiving water site has observed two consecutive exceedances during the same condition, the constituent will be added to the upstream stormwater outfall or significant non-stormwater outfall site for wet or dry weather, respectively.

The monitoring data will be reviewed annually to determine if prioritized WBPCs or constituent lists for all types of monitoring sites require updating. When updates are made, the changes will be reported in the annual report and become effective for the subsequent monitoring year.

9.3 AQUATIC TOXICITY TESTING

Aquatic toxicity testing supports the identification of BMPs to address sources of toxicity in urban runoff. The following outlines the approach for conducting aquatic toxicity monitoring and evaluating results. Control measures and management actions to address confirmed toxicity caused by urban runoff are addressed by the EWMP, either via currently identified management actions or those that are identified via adaptive management of the EWMP. As *Ceriodaphnia dubia* (*C. dubia)* is identified as the most sensitive to known potential toxicant(s) typically found in receiving waters and urban runoff in the freshwater potions of the watershed, *C. dubia* is selected as the most sensitive species. The species also has the advantage of being easily maintained in house mass cultures. The simplicity of the test, the ease of interpreting results, and the smaller volume necessary to run the test, make the test a valuable screening tool.

Per the MRP, acute and chronic toxicity test endpoints will be analyzed using the Test of Significant Toxicity (TST) t-test approach specified by the USEPA (USEPA, 2010). The Permit specifies that the chronic in-stream waste concentration is set at 100% receiving water for receiving water samples and 100% effluent for outfall samples. Using the TST approach, a t-value is calculated for a test result and compared with a critical t-value from USEPA's TST Implementation Document (USEPA, 2010).

For acute *C. dubia* toxicity testing, if a statistically significant 50% difference in mortality is observed between the sample and laboratory control, a TIE will be performed. For chronic *C. dubia* toxicity testing, if a statistically significant 50% difference in mortality is observed between the sample and laboratory control, a TIE will be performed. If a statistically significant 50% difference in a sub-lethal endpoint is observed between the sample and laboratory control, a confirmatory sample will be collected from the receiving water within two weeks of obtaining the results of the initial sample. If a statistically significant 50% difference in mortality or sub-lethal endpoint is observed between the sample and laboratory control on the confirmatory sample, a TIE will be performed.

In cases where significant endpoint toxicity effects greater than 50% are observed in the original sample, but the follow-up TIE positive control "signal" is not statistically significant, the cause of toxicity will be considered non-persistent. No immediate follow-up testing is required on the sample. However, future test results should be evaluated to determine if parallel TIE treatments are necessary to provide an opportunity to identify the cause of toxicity.

The results of toxicity testing will be used to trigger further investigations to determine the cause of observed laboratory toxicity. The primary purpose of conducting TIEs is to support the identification of management actions that will result in the removal of pollutants causing toxicity in receiving waters. Successful TIEs will direct monitoring at outfall sampling sites to inform management actions. As such, the goal of conducting TIEs is to identify pollutant(s) that should be sampled during outfall monitoring so that management actions can be identified to address the pollutant(s). The Group Members will prepare a discharge assessment plan if TIEs conducted on consecutive sampling events are inconclusive. Discharge assessments will be conducted after

consecutive inconclusive TIEs, rather than after one, because of the inherit variability associated with the toxicity and TIE testing methods.

Monitoring for constituents identified based on the results of a TIE will occur as soon as feasible following the completion of a successful TIE (i.e., the next monitoring event that is at least 45 days following the toxicity laboratory's report transmitting the results of a successful TIE).

The intent of the approach is to identify the cause of toxicity observed in receiving water to the extent possible with the toxicity testing tools available, thereby directing outfall monitoring for the pollutants causing toxicity with the ultimate goal of supporting the development and implementation of management actions. Additional information for aquatic toxicity testing can be found in **Section C-1.7** in **Attachment C**.

10 Adaptive Management

The adaptive management process will be utilized on an annual basis to evaluate this CIMP and update the monitoring requirements as necessary. As noted in this CIMP, several monitoring elements are dynamic that will require modifications to the monitoring sites, schedule, frequency or parameters. In particular, the non-stormwater screening program and the toxicity monitoring will likely generate changes that need to be incorporated. This section lays out a range of possible modifications to this CIMP and the process for CIMP revision and update.

10.1 INTEGRATED MONITORING AND ASSESSMENT PROGRAM

Monitoring is based on water quality issues identified in downstream water bodies. As data are collected and currently identified constituents prove to not be an issue in the EWMP area water bodies, they will be removed from the monitoring program. Likewise, if new constituents are identified, they will be added to the ongoing monitoring program. Every year, an evaluation will be conducted to identify potential modifications resulting from the following:

- TIEs result in the identification of additional constituents that need to be monitored.
- Additional upstream receiving water monitoring is necessary to characterize the spatial extent of RWL exceedances.
- Additional outfall monitoring is needed in response to RWL exceedances.
- Non-stormwater outfall sites will change as discharges are addressed.
- Monitoring data demonstrates that water quality objectives are not being exceeded in the receiving waters.
- Source investigations determine that MS4 discharges are not a source of a constituent.

The results from the monitoring are meant to tie into the EWMP as feedback for the water quality changes resulting from control measures implemented by the Group Members. As a result, additional changes may be considered during the evaluation based on the control measure implementation needs.

10.2 CIMP REVISION PROCESS

A range of sampling specified in the CIMP may result in data that will require changes to ensure monitoring meets the requirements and intent of the MRP and supports EWMP implementation. Changes identified in this section will be discussed in the annual report and implemented starting no later than the first CIMP monitoring event of the next monitoring year (i.e., the first event after July 1 of the year following the annual report submittal), including:

1. Adding constituents at receiving water and/or outfall monitoring sites, increasing monitoring frequency, or adding sites as a result of requirements in the MRP (e.g., TIE results), procedures outlined in this CIMP or to further support meeting the monitoring objectives.
    a. Constituents identified through a TIE will be added to upstream receiving water monitoring sites. Where the constituents exceed water quality objectives in the receiving water twice, they will be added to the monitoring of outfall sites upstream of the receiving water site.

   b. Constituents found to exceed through Table E-2 of the MRP monitoring will be added to the upstream receiving water sites. Two exceedances of water quality objectives for the constituent(s) in the receiving water will trigger monitoring of the constituent at the outfall site(s) upstream of the receiving water site.
2. Discontinuing monitoring for Table E-2 constituents that are not identified as a water quality priority, i.e. not previously monitored, and are not detected at levels above relevant water quality objectives in the first year of monitoring.
3. Discontinuing monitoring of any Category 3 constituent at a specified site if there are two consecutive years of monitoring for the same condition (i.e., wet or dry weather) with no exceedances observed.
4. Modifying methods for consistency with USEPA method requirements or to achieve lower detection limits.
5. Changing analytical laboratories.
6. Relocating an outfall monitoring location determined to be not representative of MS4 discharges in the EWMP area, for reasons other than the observed water quality, or because monitoring at the site is not feasible.
7. Implementing the changes associated with conducting at least one re-assessment of the Non-stormwater Outfall Program during the Permit term.
8. Modifications to sampling protocols resulting from coordination with other watershed monitoring programs.

Modifications, such as reducing the sampling frequency, discontinuing moniotinrg of consituents, or moving or removing a stormwater outfall or receiving water location, will be proposed in a separate letter to the Regional Board requesting Executive Officer approval of the change.

11 Data Management and Reporting

The following sections provide an overview of the monitoring and reporting the Group Members will follow. Details of the data management and reporting are included in **Attachment C**.

11.1 DOCUMENTS AND RECORDS

The EWMP Group shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the Permit, and records of all data used to completed the Report of Waste Discharge and application of this Permit, for a period of at least three years from the date of the sample, measurement, report, or application.

11.1.1 Event Summary Reports

Reports of monitoring activities will include, at a minimum, the following information:

- The date, time of sampling or measurements, exact place, weather conditions, and rain fall amount.
- The individual(s) who performed the sampling or measurements.
- The date(s) analyses were performed.
- The individual(s) who performed the analyses.
- The analytical techniques or methods used.
- The results of such analyses.
- The data sheets showing toxicity test results.

11.1.2 Semi-Annual Analytical Data Reports

Results from each of the receiving water or outfall based monitoring station conducted in accordance with the Standard Operating Procedure shall be sent electronically to the Regional Board's stormwater site at MS4stormwaterRB4@waterboards.ca.gov. Analytical data reports are required to be submitted on a semi-annual basis and will include the following:

- Exceedances applicable to WQBELs, RWLs, action levels, or aquatic toxicity thresholds
- Corresponding sample dates and monitoring locations.

Semi-annual data reports will be submitted on June 15, covering the monitoring period of July 1 through December 31, and on December 15, covering the monitoring period of January 1 through June 30.

11.2 MONITORING REPORTS

Annual monitoring reports will be submitted by December 15 of each year. The annual monitoring reports will cover the monitoring period of July 1 through June 30. The annual monitoring reports will include the following:

- Watershed Summary Information
    - Watershed Management Area
    - Subwatershed (HUC-12) Descriptions
    - Description of Permittee(s) Drainage Area within the Subwatershed
- Annual Assessment and Reporting

- Stormwater Control Measures
- Effectiveness Assessment of Stormwater Control Measures
- Non-stormwater Water Control Measures
- Effectiveness Assessment of Non-Stormwater Control Measures
- Integrated Monitoring Compliance Report
- Adaptive Management Strategies
- Supporting Data and Information.

Details on the reporting requirements from the MRP that will be submitted with the semi-annual analytical data reports and annual monitoring reports are presented in **Attachment C**. In addition to the requirements from the MRP, a discussion of how the reported data are to be used is included in **Attachment C**.

11.3 DATA MANAGEMENT

The acceptability of data is determined through data verification and data validation. In addition to the programmatic data quality objectives, the standard data validation procedures documented in the subcontracted laboratory's quality assurance (QA) manual will be used to accept, reject, or qualify the data generated by the laboratory. Each laboratory's QA Officer will be responsible for validating data generated by the laboratory.

Once analytical results are received from the analyzing laboratory, the EWMP Group will perform an independent review and validation of analytical results. Decisions to reject or qualify data will be made, based on the evaluation of field and laboratory quality control data. Data verification involves verifying that required methods and procedures have been followed at all stages of the data collection process, including sample collection, sample receipt, sample preparation, sample analysis, and documentation review for completeness. Data validation involves identifying project requirements, obtaining the documents and records produced during data verification, evaluating the quality of the data generated including that laboratory equipment to be free of analytes of interest below the reporting limit, to evaluate if any potential exists for cross-contamination or assigning a value to an otherwise chemical contaminant-free sample, and determining whether project requirements were met.

The field log and analytical data generated will be converted to a standard database format. After data entry or data transfer procedures are completed for each sample event, data will be validated. After the final quality assurance checks for errors are completed, the data will be added to the database.

Details of the data management protocols are provided in **Attachment C**.

12 Schedule for CIMP Implementation

Existing monitoring at LACFCD mass emission sites will continue to be conducted during the CIMP approval process. Beginning summer 2014, the dry weather screening of major outfalls will commence. Implementation of new monitoring programs and modifications to existing monitoring will commence on July 1, 2015 or 90 days after approval by the Executive Officer of the Regional Board, whichever is later.

The EWMP Group intends to phase in the receiving water and stormwater outfall elements of this CIMP to accommodate multiple agency coordination and permitting as well as processes for acquiring and installing autosamplers. Numerous autosampler stations have been installed throughout the County and provide significant experience in understanding the challenges and timelines for designing, permitting, and installing autosampler stations. The following provides an overview of the tasks and timelines associated with autosampler installation and what would be considered a relatively straightforward installation timeframe:

- Detailed autosampler site configuration/design, which includes data collection and review, identification of permit requirements, concept design, development of summary technical memos, and review by participating agencies and associated divisions: 12 months
- Obtaining permits from one or more of the following entities: Army Corps of Engineers, LACFCD, United States Fish and Wildlife Service, California Department of Fish and Game, California Coastal Commission, and the Regional Board: 3 to 10 months
- Purchase of equipment via contractor or via agency procurement process (can occur somewhat concurrently with permitting): 2 to 6 months
- Connecting to power via an upgrade to existing service or establishing new service: 1 to 6 months
- Construction of monitoring station assuming no bid/award process: 1 month
- Total time: 18 to 30 months

Phase I of the CIMP Implementation:

- Fiscal Year 14-15
- Non-stormwater screening
- Determination of significant non-stormwater outfalls
- Continued monitoring at the existing receiving water LTA site (S14)

Phase II of the CIMP Implementation (beginning July 1, 2015 or 90 days after CIMP approval; whichever is later):

- Fiscal Year 15-16
- Continued implementation of non-stormwater outfall program
- Modifications to monitoring at the existing receiving water LTA site
- Installation and monitoring of 3 new TMDL receiving water sites
- Monitoring of 1 new TMDL receiving water site at Puddingstone Reservoir

Phase III of the CIMP Implementation:

- Fiscal Year 16-17
- Continued implementation of non-stormwater outfall program
- Continued monitoring at all existing LTA and TMDL receiving water sites
- Installation and monitoring of 3 new stormwater outfall sites

Phase IV of the CIMP Implementation:

- Fiscal Year 17-18
- Continued implementation of non-stormwater outfall program
- Continued monitoring at all existing LTA, TMDL receiving water, and stormwater outfall sites
- Installation and monitoring of 3 new stormwater outfall sites

The below Table 12-1 summarizes the installation and monitoring schedule for LTA, TMDL receiving water and stormwater outfall sites.

Table 12-1
Receiving Water and Outfall Phasing

Site	Installation and Monitoring Schedule	Sampling Frequency Wet/Dry[1]
Receiving Water		
S14	Existing	4/2
San Gabriel River Reach 4	FY15-16[2]	4/2
Walnut Creek Wash	FY15-16[2]	4/2
San Jose Creek	FY15-16[2]	4/2
Puddingstone Reservoir	FY 15-16[3]	Varies[3]
Outfall		
County of Los Angeles	FY16-17[4]	3/0
Covina	FY16-17[4]	3/0
Industry	FY16-17[4]	3/0
Baldwin Park	FY17-18[4]	3/0
Glendora	FY17-18[4]	3/0
La Puente	FY17-18[4]	3/0

1. The sampling frequency per constituent per receiving water site is detailed in Table 2-1 for receiving water sites and Table 4-9 for outfall sites. Wet weather sampling for metals, TSS, hardness and field parameters will be conducted four times per year, other constituents will be collected three times per year. After the first year, data will be evaluated to determine if reducing monitoring frequency to three wet events per year will provide sufficient data. If three events of wet-weather data can provide sufficient data, the Group will submit a request to the Executive Officer to reduce the sampling frequency.
2. If an autosampler cannot be installed in time for wet season monitoring, grab samples will be collected every 20 minutes for 3 hours, or the duration of the storm if it is less than 3 hours.
3. No equipment will be installed since sampling will be taken at the center of the Lake. The sampling frequency is detailed in Table 2-2.
4. As installation of sites proceeds, the outfalls will be added to the wet weather monitoring schedule.

13 References

Los Angeles RWQCB, *Final Staff Report for the Implementation Plans and Schedules for the Los Cerritos Channel and San Gabriel River Metals TMDLs*, 2013

LARWQCB. 2011. Amendment to the Water Quality Control Plan – Los Angeles Region to Incorporate the Total Maximum Daily Load for Toxic Pollutants in Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters. Attachment A to Resolution No. R11-008. Adopted May 5, 2011. Effective March 23, 2012.

RWQCB (California Regional Water Quality Control Board Los Angeles Region). 2012. Water Discharge Requirements for Municipal Separate Storm Sewer Systems (MS4s) Discharges within the Coastal Watersheds of Los Angeles County, Except Those Discharges Originating from the City of Long Beach MS4. Order No. R4-2012-0175. NPDES No. CAS004001. December 6, 2012.

USEPA. 2007. Total Maximum Daily Loads for Metals and Selenium – San Gabriel River and Impaired Tributaries. USEPA Region 9. March 26, 2007.

USEPA. 2012. Los Angeles Area Lakes Total Maximum Daily Loads for Nitrogen, Phosphorus, Mercury, Trash, Organochlorine Pesticides and PCBs. USEPA Region 9. March 26, 2012.

CITY OF COVINA
AGENDA ITEM COMMENTARY

MEETING DATE June 2, 2015 **ITEM NO. CC 7**

STAFF SOURCE Siobhan Foster, Director of Public Works
Vivian Castro, Environmental Services Manager

ITEM TITLE Authorization to Execute a Memorandum of Agreement (MOA) with Los Angeles Gateway Region Integrated Regional Water Management Joint Powers Authority (GWMA) for Cost Sharing for Installation of Monitoring Equipment and Monitoring Pursuant to Dominquez Channel and Greater Los Angeles and Long Beach Harbor Waters (Harbor Toxic Pollutants) Total Maximum Daily Load (TMDL)

STAFF RECOMMENDATION

1) Authorize the City Manager to execute MOA with GWMA for Cost Sharing for the Installation of Monitoring Equipment and Monitoring Pursuant to the Harbor Toxic Pollutants TMDL; and
2) Authorize the Department of Public Works to submit payment of $4,121.00 by June 30, 2015 for Fiscal Year (FY) 2015-16 upon receipt of invoice.

FISCAL IMPACT

The MOA covers the cost of installing monitoring stations and conducting monitoring through FY 2017-18. The MOA require the following payment schedule for the City of Covina:

Invoice Date	Maximum Amount ($)
June 2015 *(FY 2015-16)*	4,121.00
April 2016 *(FY 2016-17)*	2,247.70
April 2017 *(FY 2017-18)*	2,247.70
Total (Maximum Amount)	8,616.40

Includes administrative fee of 5% of City's annual cost share amount.

The June 2015 invoice amount of $4,121.00 is included in the FY 2015-16 Department of Public Works proposed budget (account 6200-5550-51800). The proposed FY 2015-16 Department of Public Works budget (account 6200-5550-51800) includes $2,247.70 for the April 2016 invoice amount (for FY 2016-17). The April 2017 invoice cost (for FY 2017-18) will be requested as part of the FY 2016-17 City budget process.

While Environmental Services collects various fees for stormwater-related services provided by the City (development plan reviews, construction site inspections, facilities inspections, etc.) that historically covered the costs of implementing the prior (2001) Municipal Separate Storm Sewer System (MS4) Permit, for the 2012 MS4 Permit those fees are insufficient to cover the full cost

of implementing the Upper San Gabriel River Enhanced Watershed Management Program (EWMP) and not applicable to cover the costs of the CIMP and Harbor Toxic Pollutants TMDL monitoring. At this time, there are no Environmental Services fee revenues that can be used to cover the cost of implementing the CIMP and Harbor Toxic Pollutants TDML monitoring. Beginning with the Fiscal Year 2015-16 budget, the General Fund will be required to subsidize the City's stormwater compliance programs. As a result, expenses associated with this MOA will be borne by the General Fund unless other funding sources are identified.

BACKGROUND

On May 5, 2011, the California Regional Water Quality Control Board, Los Angeles Region (Regional Board) adopted the Harbor Toxic Pollutants TMDL. The City of Covina is identified in the TMDL as a responsible party because the San Gabriel River, to which the City drains, is tributary to the Harbor. This TMDL requires water quality monitoring of toxic "legacy" pollutants. Numerous cities tributary to the Harbor propose to share the cost of implementing the monitoring program and share monitoring data. The proposed MOA (Exhibit A) allows for joint monitoring of several locations within the Harbor areas, which results in a cost savings to all participants.

The Harbor Toxic Pollutants TMDL became effective upon approval by the United States Environmental Protection Agency on March 23, 2012. Subsequently, this TMDL has been incorporated into the Los Angeles County Municipal Separate Storm Sewer System (MS4) Permit (Order No. R4-2012-0175; NPDES Permit No. CAS004001), which regulates the City's storm drain discharges, and is enforceable through the federal Clean Water Act.

As explained in the Agenda Report for Item CC 3 of this June 2, 2015 Covina City Council agenda, the MS4 Permit gives Permittees the option of implementing a collaborative, watershed-based approach to Permit compliance through development of a Watershed Management Program (WMP) or an Enhanced Watershed Management Program (EWMP). On September 3, 2013 the Covina City Council authorized the City to collaborate in the development of an Upper San Gabriel River EWMP and a Coordinated Integrated Monitoring Program (CIMP) for the group, as required by the Monitoring and Reporting Program (MRP) of the MS4 Permit.

The Upper San Gabriel River Watershed CIMP provides the details of the EWMP Group's monitoring program that covers the majority of the monitoring requirements of the MS4 Permit for the City of Covina. However, the CIMP does not include monitoring for the Harbor Toxic Pollutants TMDL, which is required of Permittees in the Los Angeles River and San Gabriel River watersheds, not just the Upper San Gabriel River EWMP Group members.

To facilitate the achievement of the objectives of the Harbor Toxic TMDL while accruing financial savings and benefits from this cost-sharing arrangement, the Department of Public Works recommends that Covina participate in the MOA.

The MOA proposes that the City of Covina collaborate with the Permittees noted in Exhibit A to install three water quality monitoring stations and conduct monitoring at said stations to ensure consistency with other regional monitoring programs and usability with other TMDL-related studies. Covina and other participating Permittees are assessed costs based on the formula as detailed in the MOA. The overall cost to Covina for the three year program will be a maximum of $8,616.40. The formula currently assumes the participation of the maximum number of MS4 Permittees required to comply with the monitoring requirements of the TMDL, however, it is currently unknown how many MS4 Permittees will ultimately participate in the cost sharing of

the monitoring. For that reason, an initial payment that includes the first year payment plus a deposit that is 25% of the first year payment cost is due June 30, 2015 to account for possible non-participation of some MS4 Permittees in the cost share for the Monitoring Costs

The initial payment amount and the two annual payment amounts represent the maximum dollar amounts that Covina is required to submit to the GWMA, but may be reduced based on the final number of MS4 Permittees that participate in the cost sharing for the Monitoring Costs. In the event that fewer than the maximum number of MS4 Permittees participate, the GWMA will notify Covina in writing that the City's cost share will be reduced accordingly

The GWMA has agreed to act as the fiduciary agent for the TMDL monitoring project. The GWMA has experience with similar projects such as the Lower Los Angeles and Lower San Gabriel River and Los Cerritos Channel Watershed Management Programs.

Key Elements of the MOA are listed below:

- Obligates the City of Covina to pay an annual fee for participation in the monitoring.
- Allows the City to terminate the agreement, but the deposit may be forfeited if not within specified timeframe.
- Includes in Covina's annual payment a fee of 5% of Covina's annual cost share to the GWMA for contract administration.
- Establishes the GWMA as the entity to contract with and process payments for consultants.
- Outlines a process for invoicing and payment.

Like the CIMP, the Harbor Toxic Pollutants TMDL MOA provides for continued use of LACFCD data and savings through coordination and economies of scale. By coordinating the monitoring requirements of this TMDL with other Permittees, the City is able to comply with the MS4 Permit and Harbor Toxic Pollutants TMDL while reducing costs and administrative burden.

To meet the MS4 Permit deadline, the MOA must be signed by the City by June 14, 2015 so that the City's participation can be documented in the EWMP Plan that must be submitted to the Regional Board by June 28, 2015.

EXHIBITS

A. Agreement Between the GWMA and the City of Covina for Cost Sharing for the Installation of Monitoring Equipment and Monitoring Pursuant to the Harbor Toxic Pollutants TMDL.

Respectfully submitted,

Siobhan Foster/Director of Public Works
Public Works Department

AGREEMENT
BETWEEN THE LOS ANGELES GATEWAY REGION INTEGRATED REGIONAL WATER MANAGEMENT JOINT POWERS AUTHORITY
AND
THE CITY OF COVINA

FOR COST SHARING FOR THE INSTALLATION OF MONITORING EQUIPMENT AND MONITORING PURSUANT TO THE HARBOR TOXIC POLLUTANTS TMDL

This Agreement is made and entered into as of May 22, 2015, by and between the Los Angeles Gateway Region Integrated Regional Water Management Joint Powers Authority ("GWMA"), a California Joint Powers Authority, and the City of Covina, (the "Permittee").

RECITALS

WHEREAS, the mission of the GWMA includes the equitable protection and management of water resources within its area;

WHEREAS, for the purposes of this Agreement, the term "MS4 Permittees" shall mean those public agencies that are co-permittees to a National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System Permit Order ("MS4 Permit") issued by the Los Angeles Regional Water Quality Control Board;

WHEREAS, the United States Environmental Protection Agency established the Total Maximum Daily Loads ("TMDL") for Toxic Pollutants on March 23, 2012, with the intent of protecting and improving water quality in the Dominguez Channel and the Greater Los Angeles and Long Beach Harbor Waters ("Harbor Toxic Pollutants TMDL");

WHEREAS, the Harbor Toxic Pollutants TMDL regulates certain discharges from National Pollutant Discharge Elimination System ("NPDES") permit holders, requiring organization and cooperation among the Permittees;

WHEREAS, the Permittee manages, drains or conveys storm water into at least a portion of the Los Angeles River including the estuary or Coyote Creek or the San Gabriel River including the estuary;

WHEREAS, various MS4 Permittees desire to facilitate the achievement of the objectives of the Harbor Toxic Pollutants TMDL by installing one monitoring station in the Los Angeles River at Wardlow Road, one monitoring station in the San Gabriel River near Spring Street, and one monitoring station in the Coyote Creek, also near Spring Street and conducting monitoring at said monitoring stations (collectively "Monitoring Stations") to ensure consistency with other regional monitoring programs and usability with other TMDL related studies;

WHEREAS, installation of the Monitoring Stations and future monitoring requires administrative coordination for the various MS4 Permittees that the GWMA can provide;

WHEREAS, individual MS4 permittees that are not GWMA members have indicated a desire to participate in the cost sharing for the installation of the Monitoring Stations and the costs of monitoring conducted at the Monitoring Stations (collectively "Monitoring Costs");

WHEREAS, the GWMA Board of Directors authorized the GWMA to enter into individual separate agreements with such individual MS4 Permittees (which shall not have voting rights in any group relating to the GWMA Members) for purposes of only cost sharing in the Monitoring Costs;

WHEREAS, the members of the GWMA are the Cities of Artesia, Bell, Bell Gardens, Bellflower, Cerritos, Commerce, Cudahy, Downey, Hawaiian Gardens, Huntington Park, La Mirada, Lakewood, Long Beach, Lynwood, Maywood, Montebello, Norwalk, Paramount, Pico Rivera, Santa Fe Springs, Signal Hill, South Gate, Vernon, Whittier, Central Basin Municipal Water District and the Long Beach Water Department ("GWMA Members");

WHEREAS, because GWMA Members already currently pay annual membership fees that pay for GWMA administrative costs, GWMA Members that participate in the cost share for the Monitoring Costs shall pay a three percent (3%) administrative fee on each payment to cover various administrative costs;

WHEREAS, MS4 Permittees that are not GWMA Members that participate in the cost share for the Monitoring Costs shall pay a five percent (5%) administrative fee on each payment to cover various administrative costs;

WHEREAS, currently a majority of MS4 Permittees tributary to the Los Angeles and San Gabriel River systems have committed to cost share for the Monitoring Costs;

WHEREAS, because of the financial savings and benefits resulting from this cost-sharing arrangement, other MS4 Permittees may request to participate in the cost sharing of the Monitoring Costs;

WHEREAS, the cost-share formula, set forth in Exhibit "A" of this Agreement, currently assumes the participation of the maximum number of MS4 Permittees required to comply with the monitoring requirements of the Harbor Toxic Pollutants TMDL;

WHEREAS, it is currently unknown how many MS4 Permittees will ultimately participate in the cost sharing of the Monitoring Costs;

WHEREAS, because some definite maximum cost share amount per participating Permittee is required for planning purposes, this Agreement requires each participating Permittee to submit an initial payment that includes the first year payment plus a deposit that is 25% of the first year payment cost identified in Exhibit "A" of this Agreement, to account for possible non-participation of some MS4 Permittees in the cost share for the Monitoring Costs;

WHEREAS, depending on how many MS4 Permittees ultimately participate in the cost sharing for the Monitoring Costs, each participating Permittee's annual cost share amount will be adjusted and the GWMA will notify each participating Permittee of its adjusted annual cost share amount in writing;

WHEREAS, the "Initial Payment Amount" and the "Annual Payment Amount" identified in Section 8 ("Financial Terms") of this Agreement represent the maximum dollar amounts that the Permittee is required to submit to the GWMA, but may be reduced based on the final number of MS4 Permittees that participate in the cost sharing for the Monitoring Costs;

WHEREAS, if the actual cost share amount is less than the Initial Payment Amount paid by the Permittee, the GWMA will notify the Permittee and shall credit any balance in excess of the actual cost share amount towards the Permittee's "Annual Payment Amount" in subsequent years;

WHEREAS, the Permittee desires to share in the Monitoring Costs;

WHEREAS, the Permittee and the GWMA are collectively referred to as the "Parties";

WHEREAS, the Parties have determined that authorizing GWMA to hire additional consultant as necessary to install the Monitoring Stations and conduct the monitoring required by the Harbor Toxic Pollutants TMDL will be beneficial to the Parties;

WHEREAS, the Permittee agrees to pay: (a) its proportional share of the Monitoring Costs to be incurred by the GWMA in accordance with the Cost Sharing Formula reflected in **Exhibit "A",** (b) a deposit of 25% of the "Initial Payment Amount" and a deposit of 25% of the "Annual Payment Amount"; and (c) applicable administrative fees to cover administrative costs; and

WHEREAS, the role of the GWMA is to: (1) invoice and collect funds from the Permittee to cover its portion of the Monitoring Costs; and (2) hire and retain consultants to install Monitoring Stations and conduct monitoring at the Monitoring Stations.

NOW, THEREFORE, in consideration of the mutual covenants and conditions set forth herein, the Parties do hereby agree as follows:

Section 1. Recitals. The recitals set forth above are fully incorporated as part of this Agreement.

Section 2. Purpose. The purpose of this Agreement is for the Permittee to cost share in the Monitoring Costs.

Section 3. Cooperation. The Parties shall fully cooperate with one another to achieve the purposes of this Agreement.

Section 4. Voluntary Nature. The Parties voluntarily enter into this Agreement.

Section 5. Binding Effect. This Agreement shall become binding on GWMA and the Permittee.

Section 6. Term. This Agreement shall commence on July 1, 2015 and shall expire on June 30, 2018, unless terminated earlier pursuant to this Agreement.

Section 7. Role of the GWMA.

(a) The GWMA shall invoice and collect funds from the Permittee to cover the Monitoring Costs; and

(b) The GWMA shall administer the consultants' contracts for the Monitoring Costs.

Section 8. Financial Terms.

(a) Initial Payment Amount. The Permittee shall pay no more than Four Thousand One Hundred Twenty-One Dollars ($4,121.00) for the initial payment ("Initial Payment Amount") , for the 2015-2016 fiscal year to the GWMA for managing the installation of the Monitoring Stations and the monitoring data collected at the Monitoring Stations for the 2015-2016 fiscal year. This Initial Payment Amount includes: (1) the Permittee's cost share amount ("Cost Share Amount") identified in **Exhibit "A"**, attached hereto and incorporated herein; (2) the administrative fee identified in subsection (c) of this Section 8; and (3) a deposit in the amount of 25% of the Permittee's Cost Share Amount identified in **Exhibit "A"**.

(b) Annual Payment Amount. For each subsequent fiscal year, commencing with the 2016-2017 fiscal year, the Permittee shall pay no more than Two Thousand Two Hundred Forty-Seven Dollars and Seventy Cents ($2,247.70) ("Annual Payment Amount") annually on a fiscal year (July 1st to June 30th) basis to the GWMA in exchange for the monitoring data collected from the Monitoring Stations. This price assumes the participation of the maximum number of MS4 Permittees subject to the Harbor Toxic Pollutants TMDL. This Annual Payment Amount includes: (1) the Permittee's Cost Share Amount identified in **Exhibit "A"**, attached hereto and incorporated herein; (2) the administrative fee identified in subsection (c) of this Section 8; and (3) a deposit in the amount of 25% of the Permittee's Cost Share Amount identified in **Exhibit "A"**.

(c) Adjustment of Cost Share Based on Number of Participants. The "Initial Payment Amount" and the "Annual Payment Amount" identified in Section 8 ("Financial Terms") of this Agreement represent the maximum dollar amounts that the Permittee is required to submit to the GWMA, but may be reduced based on the final number of MS4 Permittees that participate in the cost sharing for the Monitoring Costs. In the event that fewer than the maximum number of MS4 Permittees participate, the GWMA will notify the Permittee in writing that the Permittee's cost share amount will be adjusted accordingly. If the Permittee's actual cost share amount plus administrative

costs are less than the Initial Payment Amount paid by the Permittee, the GWMA will notify the Permittee in writing and shall credit any balance in excess of the actual cost share amount towards the Permittee's "Annual Payment Amount" in subsequent years;

(d) Administrative Costs. As part of the Initial Payment Amount and the Annual Payment Amount, the Permittee shall also pay its proportional share of the GWMA's staff time for hiring the consultants and invoicing the Permittee, audit expenses and other overhead costs, including reasonable legal fees incurred by the GWMA in the performance of its duties under this Agreement ("Administrative Costs"). The GWMA shall charge five percent (5%) of each Permittee's Cost Share Amount identified in **Exhibit "A"** to the Permittee's annual invoice to cover the Permittee's share of the Administrative Costs.

(e) The Permittee's Initial Payment Amount shall cover the 2015-2016 fiscal year and is due upon execution of this Agreement, but in no event later than June 30, 2015. For each subsequent fiscal year, commencing with the 2016-2017 fiscal year, the GWMA shall submit annual invoices to the Permittee for the Annual Payment Amount no later than the April 1st prior to the new fiscal year.

(f) Upon receiving an invoice from the GWMA, the Permittee shall pay the invoiced amount to the GWMA within thirty (30) days of the invoice's date.

(g) The Permittee shall be delinquent if its invoiced payment is not received by the GWMA within forty-five (45) days after the invoice's date. If the Permittee is delinquent, the GWMA will: 1) verbally contact the representative of the Permittee; and 2) submit a formal letter from the GWMA Executive Officer to the Permittee at the address listed in Section 12 of this Agreement. If payment is not received within sixty (60) days of the original invoice date, the GWMA may terminate this Agreement. However, no such termination may be ordered unless the GWMA first provides the Permittee with thirty (30) days written notice of its intent to terminate the Agreement. The terminated Permittee shall remain obligated to GWMA for its delinquent payments and any other obligations incurred prior to the date of termination. If the GWMA terminates this Agreement because the Permittee is delinquent in its payment, the Permittee shall no longer be entitled to the monitoring data collected from the Monitoring Stations.

(h) Any delinquent payments by the Permittee shall accrue compound interest at the average rate of interest paid by the Local Agency Investment Fund during the time that the payment is delinquent.

Section 9. Independent Contractor.

(a) The GWMA is, and shall at all times remain, a wholly independent contractor for performance of the obligations described in this Agreement. The GWMA's officers, officials, employees and agents shall at all times during the term of this Agreement be under the exclusive control of the GWMA. The Permittee cannot control the conduct of the GWMA or any of its officers, officials, employees or agents. The

GWMA and its officers, officials, employees, and agents shall not be deemed to be employees of the Permittee.

(b) The GWMA is solely responsible for the payment of salaries, wages, other compensation, employment taxes, workers' compensation, or similar taxes for its employees and consultants performing services hereunder.

Section 10. Indemnification and Insurance.

(a) The Permittee shall defend, indemnify and hold harmless the GWMA and its officers, employees, and other representatives and agents from and against any and all liabilities, actions, suits proceedings, claims, demands, losses, costs, and expenses, including legal costs and attorney's fees, for injury to or death of person(s), for damage to property (including property owned by the GWMA) for negligent or intentional acts, errors and omissions committed by the Permittee or its officers, employees, and agents, arising out of or related to that Permittee's performance under this Agreement, except for such loss as may be caused by GWMA's negligence or that of its officers, employees, or other representatives and agents, excluding the consultant.

(b) GWMA makes no guarantee or warranty that any monitoring data prepared by the consultants shall be approved by the relevant governmental authorities. GWMA shall have no liability to the Permittee for the negligent or intentional acts or omissions of GWMA's consultants. The Permittee's sole recourse for any negligent or intentional act or omission of GWMA's consultants shall be against consultants and their insurance.

Section 11. Termination.

(a) The Permittee may terminate this Agreement for any reason, or no reason, by giving the GWMA prior written notice thereof, but the Permittee shall remain responsible for its entire Annual Payment Amount through the end of the current fiscal year during which Permittee terminates the Agreement and shall not be entitled any refund of any portion of said Annual Payment Amount. Moreover, unless the Permittee provides written notice of termination to the GWMA by February 15th immediately prior to the new fiscal year, the Permittee shall also be responsible for its Annual Payment Amount through the end of the new fiscal year (*e.g.*, If the Permittee terminates on March 1st, 2016, the Permittee is responsible for the Annual Payment Amounts for both FY 2015-2016 and FY 2016-2017. If the Permittee terminates on February 10, 2016, the Permittee is responsible for its Annual Payment Amount only for FY 2015-2016, not for FY 2016-2017). If the Permittee terminates the Agreement, the Permittee shall remain liable for any loss, debt, or liability otherwise incurred through the end of the new fiscal year.

(b) The GWMA may, with a vote of the GWMA Board, terminate this Agreement upon not less than thirty (30) days written notice to the Permittee. Any remaining funds not due and payable or otherwise legally committed to Consultant shall

be returned to the Permittee.

Section 12. Miscellaneous.

(a) The Permittee has been accepted as a participant in the cost sharing for the Monitoring Costs and shall not be entitled to appoint a representative or to vote or participate in any way in decisions assigned to GWMA Members. Participant status entitles the Permittee only to the monitoring data collected from the Monitoring Stations for any fiscal year in which the participant has paid its Annual Payment Amount.

(b) Notices. All Notices which the Parties require or desire to give hereunder shall be in writing and shall be deemed given when delivered personally or three (3) days after mailing by registered or certified mail (return receipt requested) to the following address or as such other addresses as the Parties may from time to time designate by written notice in the aforesaid manner:

To GWMA:

Ms. Toni Penn
GWMA Administrative/Accounting Assistant
GWMA
16401 Paramount Boulevard
Paramount, CA 90723

To the Permittee:

Ms. Vivian Castro
Environmental Services Manager
City of Covina
125 E. College Street
Covina, CA 91723
vcastro@covinaca.gov

(c) Amendment. The terms and provisions of this Agreement may not be amended, modified or waived, except by a written instrument signed by all Parties.

(d) Waiver. Waiver by either the GWMA or the Permittee of any term, condition, or covenant of this Agreement shall not constitute a waiver of any other term, condition, or covenant. Waiver, by the GWMA or the Permittee, to any breach of the provisions of this Agreement shall not constitute a waiver of any other provision or a waiver of any subsequent breach of any provision of this Agreement.

(e) Law to Govern: Venue. This Agreement shall be interpreted, construed, and governed according to the laws of the State of California. In the event of litigation between the Parties, venue shall lie exclusively in the County of Los Angeles.

(f) No Presumption in Drafting. The Parties to this Agreement agree that the general rule than an agreement is to be interpreted against the Party drafting it, or causing it to be prepared, shall not apply.

(g) Severability. If any term, provision, condition or covenant of this Agreement is declared or determined by any court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions of this Agreement shall not be affected thereby and this Agreement shall be read and construed without the invalid, void, or unenforceable provisions(s).

(h) Entire Agreement. This Agreement constitutes the entire agreement of the Parties with respect to the subject matter hereof and supersedes all prior or contemporaneous agreements, whether written or oral, with respect thereto.

(i) Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be an original, but all of which taken together shall constitute but one and the same instrument, provided, however, that such counterparts shall have been delivered to all Parties to this Agreement.

(j) Legal Representation. All Parties have been represented by counsel in the preparation and negotiation of this Agreement. Accordingly, this Agreement shall be construed according to its fair language.

(k) Authority to Execute this Agreement. The person or persons executing this Agreement on behalf of Permittee warrants and represents that he or she has the authority to execute this Agreement on behalf of the Permittee and has the authority to bind Permittee.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed on their behalf, respectively, as follows:

DATE:_____

LOS ANGELES GATEWAY REGION INTEGRATED REGIONAL WATER MANAGEMENT JOINT POWERS AUTHORITY

_____
Christopher S. Cash
GWMA Chair

DATE: _____

PERMITTEE
City of Covina

_____
Signature

_____
Print Name

_____
Print Title

EXHIBIT "A"

COST SHARE MATRIX
ATTACHED

Harbor Toxics TMDL Monitoring
Los Angeles River Watersheds

				(50% equal share, 50% by area)			(50% equal share, 50% by area)		
				Installation and 1st Year's operations $110,000			2nd Year and subsequent years $60,000		
Group Name	**Cities/ Permittees Involved**	**Area (acres)**	**Area**	**Base Cost**	**Area Cost**	**Total Cost**	**Base Cost**	**Area Cost**	**Total Cost**
Upper Los Angeles River Watershed Group	Alhambra	4,884	1.3%	$653	$687	$1,340	$356	$375	$731
	Burbank	11,095	3.0%	$653	$1,561	$2,214	$356	$852	$1,208
	Calabasas	4,006	1.1%	$653	$564	$1,217	$356	$307	$664
	Glendale	19,588	5.3%	$653	$2,756	$3,409	$356	$1,503	$1,860
	Hidden Hills	961	0.3%	$653	$135	$788	$356	$74	$430
	La Canada Flintridge	5,534	1.5%	$653	$779	$1,432	$356	$425	$781
	Los Angeles	181,288	48.8%	$653	$25,511	$26,164	$356	$13,915	$14,271
	Montebello	5,356	1.4%	$653	$754	$1,407	$356	$411	$767
	Monterey Park	4,952	1.3%	$653	$697	$1,350	$356	$380	$736
	Pasadena	14,805	4.0%	$653	$2,083	$2,737	$356	$1,136	$1,493
	Rosemead	3,311	0.9%	$653	$466	$1,119	$356	$254	$610
	San Gabriel	2,645	0.7%	$653	$372	$1,025	$356	$203	$559
	San Marino	2,410	0.6%	$653	$339	$992	$356	$185	$541
	South Pasadena	2,186	0.6%	$653	$308	$961	$356	$168	$524
	Temple City	2,577	0.7%	$653	$363	$1,016	$356	$198	$554
	Unincorporated	40,553	10.9%	$653	$5,707	$6,360	$356	$3,113	$3,469
Lower Los Angeles River Watershed	Downey	3,546	1.0%	$1,306	$499	$1,805	$713	$272	$985
	Lakewood	51	0.0%	$1,306	$7	$1,313	$713	$4	$716
	Long Beach	12,301	3.3%	$1,306	$1,731	$3,037	$713	$944	$1,657
	Lynwood	3,098	0.8%	$1,306	$436	$1,742	$713	$238	$950
	Paramount	1,997	0.5%	$1,306	$281	$1,587	$713	$153	$866
	Pico Rivera	1,510	0.4%	$1,306	$212	$1,519	$713	$116	$828
	Signal Hill	774	0.2%	$1,306	$109	$1,415	$713	$59	$772
	South Gate	4,704	1.3%	$1,306	$662	$1,968	$713	$361	$1,074
Rio Hondo/San Gabriel River Water Quality Group	Arcadia	6,912	1.9%	$1,493	$973	$2,466	$814	$531	$1,345
	Azusa	0	0.0%	$1,493	$0	$1,493	$814	$0	$814
	Bradbury	512	0.1%	$1,493	$72	$1,565	$814	$39	$854
	Duarte	832	0.2%	$1,493	$117	$1,610	$814	$64	$878
	Monrovia	5,056	1.4%	$1,493	$711	$2,204	$814	$388	$1,202
	Sierra Madre	1,792	0.5%	$1,493	$252	$1,745	$814	$138	$952
	Unincorporated	1,792	0.5%	$1,493	$252	$1,745	$814	$138	$952
Upper Reach 2 Group	Bell	1,676	0.5%	$1,493	$236	$1,729	$814	$129	$943
	Bell Gardens	1,577	0.4%	$1,493	$222	$1,715	$814	$121	$935
	Commerce	4,195	1.1%	$1,493	$590	$2,083	$814	$322	$1,136
	Cudahy	786	0.2%	$1,493	$111	$1,603	$814	$60	$875
	Huntington Park	1,930	0.5%	$1,493	$272	$1,764	$814	$148	$962
	Maywood	754	0.2%	$1,493	$106	$1,599	$814	$58	$872
	Vernon	3,298	0.9%	$1,493	$464	$1,957	$814	$253	$1,067
Other	Carson*	--	--	--	--	--	--	--	--
	Compton*	--	--	--	--	--	--	--	--
	El Monte	4,482	1.2%	$5,225	$631	$5,856	$2,850	$344	$3,194
	South El Monte	1,577	0.4%	$5,225	$222	$5,447	$2,850	$121	$2,971
LACFCD (5%)	--	--	--	--	--	**$5,500**	--	--	**$3,000**
	Totals	**371,303**	**100.0%**	**$52,250**	**$52,250**	**$104,500**	**$28,500**	**$28,500**	**$57,000**

GWMA members will pay an additional 3% in administrative costs

Non-GWMA members will pay an additional 5% in administrative costs

GWMA will collect a 25% deposit on each cost share amount listed in case a city decides to drop out

**did not indicate intent to participate*

Last update 4/6/2015

Harbor Toxics TMDL Monitoring
San Gabriel River Watersheds

				(50% equal share, 50% by area)			(50% equal share, 50% by area)		
				Installation and 1st Year's operations $110,000			2nd Year and subsequent years $60,000		
Group Name	**Cities/ Permittees Involved**	**Area (acres)**	**Area**	**Base Cost**	**Area Cost**	**Total Cost**	**Base Cost**	**Area Cost**	**Total Cost**
Rio Hondo/San Gabriel River Water Quality Group	Arcadia	128	0.1%	$1,493	$41	$1,534	$814	$22	$837
	Azusa	5,952	3.6%	$1,493	$1,897	$3,389	$814	$1,035	$1,849
	Bradbury	704	0.4%	$1,493	$224	$1,717	$814	$122	$937
	Duarte	64	0.0%	$1,493	$20	$1,513	$814	$11	$825
	Monrovia	64	0.0%	$1,493	$20	$1,513	$814	$11	$825
	Sierra Madre	0	0.0%	$1,493	$0	$1,493	$814	$0	$814
	Unincorporated	1,344	0.8%	$1,493	$428	$1,921	$814	$234	$1,048
Upper San Gabriel River	Baldwin Park	4,335	2.6%	$1,742	$1,381	$3,123	$950	$753	$1,703
	Covina	4,481	2.7%	$1,742	$1,428	$3,170	$950	$779	$1,729
	Glendora	9,307	5.7%	$1,742	$2,966	$4,707	$950	$1,618	$2,568
	Industry	7,647	4.7%	$1,742	$2,437	$4,178	$950	$1,329	$2,279
	La Puente	2,207	1.3%	$1,742	$703	$2,445	$950	$384	$1,334
	Unincorporated	40,812	24.9%	$1,742	$13,005	$14,746	$950	$7,093	$8,043
East San Gabriel Valley Watershed Management Area	Claremont	5,790	3.5%	$2,613	$1,845	$4,457	$1,425	$1,006	$2,431
	La Verne	5,030	3.1%	$2,613	$1,603	$4,215	$1,425	$874	$2,299
	Pomona	7,929	4.8%	$2,613	$2,527	$5,139	$1,425	$1,378	$2,803
	San Dimas	8,539	5.2%	$2,613	$2,721	$5,333	$1,425	$1,484	$2,909
Lower San Gabriel River	Bellflower	1,216	0.7%	$1,045	$387	$1,432	$570	$211	$781
	Cerritos	5,645	3.4%	$1,045	$1,799	$2,844	$570	$981	$1,551
	Diamond Bar	4,563	2.8%	$1,045	$1,454	$2,499	$570	$793	$1,363
	Downey	4,237	2.6%	$1,045	$1,350	$2,395	$570	$736	$1,306
	Lakewood	1,293	0.8%	$1,045	$412	$1,457	$570	$225	$795
	Long Beach	2,138	1.3%	$1,045	$681	$1,726	$570	$372	$942
	Norwalk	6,246	3.8%	$1,045	$1,990	$3,035	$570	$1,086	$1,656
	Pico Rivera	3,929	2.4%	$1,045	$1,252	$2,297	$570	$683	$1,253
	Santa Fe Springs	5,683	3.5%	$1,045	$1,811	$2,856	$570	$988	$1,558
	Whittier	9,382	5.7%	$1,045	$2,990	$4,035	$570	$1,631	$2,201
Other	El Monte	1,577	1.0%	$2,613	$503	$3,115	$1,425	$274	$1,699
	Irwindale	6,152	3.8%	$2,613	$1,960	$4,573	$1,425	$1,069	$2,494
	South El Monte	1,823	1.1%	$2,613	$581	$3,193	$1,425	$317	$1,742
	Walnut	5,757	3.5%	$2,613	$1,834	$4,447	$1,425	$1,001	$2,426
	West Covina*	--	--	--	--	--	--	--	--
LACFCD (5%)	--	--	--	--	--	**$5,500**	--	--	**$3,000**
	Totals	**163,974**	**100.0%**	**$52,250**	**$52,250**	**$104,500**	**$28,500**	**$28,500**	**$57,000**

GWMA members will pay an additional 3% in administrative costs
Non-GWMA members will pay an additional 5% in administrative costs

GWMA will collect a 25% deposit on each cost share amount listed in case a city decides to drop out

**did not indicate intent to participate*

Last update 4/6/2015

Harbor Toxics TMDL Monitoring
Coyote Creek Watersheds

				(50% equal share, 50% by area)			(50% equal share, 50% by area)		
				Installation and 1st Year's operations $110,000			2nd Year and subsequent years $60,000		
Group Name	**Cities/ Permittees Involved**	**Area (acres)**	**Area**	**Base Cost**	**Area Cost**	**Total Cost**	**Base Cost**	**Area Cost**	**Total Cost**
Lower San Gabriel River	Artesia	1,037	2.0%	$2,613	$1,062	$3,675	$1,425	$579	$2,004
	Cerritos	5,645	11.1%	$2,613	$5,781	$8,394	$1,425	$3,153	$4,578
	Diamond Bar	4,563	8.9%	$2,613	$4,673	$7,286	$1,425	$2,549	$3,974
	Hawaiian Gardens	614	1.2%	$2,613	$629	$3,241	$1,425	$343	$1,768
	La Mirada	5,018	9.8%	$2,613	$5,139	$7,752	$1,425	$2,803	$4,228
	Lakewood	1,293	2.5%	$2,613	$1,324	$3,937	$1,425	$722	$2,147
	Long Beach	2,138	4.2%	$2,613	$2,190	$4,802	$1,425	$1,194	$2,619
	Norwalk	6,246	12.2%	$2,613	$6,397	$9,009	$1,425	$3,489	$4,914
	Santa Fe Springs	5,683	11.1%	$2,613	$5,820	$8,433	$1,425	$3,175	$4,600
	Whittier	9,382	18.4%	$2,613	$9,608	$12,221	$1,425	$5,241	$6,666
Other	Hacienda Heights*	--	--	--	--	--	--	--	--
	Unincorporated	9,400	18.4%	$26,125	$9,627	$35,752	$14,250	$5,251	$19,501
LACFCD (5%)	--	--	--	--	--	**$5,500**	--	--	**$3,000**
	Totals	**51,019**	**100.0%**	**$52,250**	**$52,250**	**$104,500**	**$28,500**	**$28,500**	**$57,000**

GWMA members will pay an additional 3% in administrative costs

Non-GWMA members will pay an additional 5% in administrative costs

GWMA will collect a 25% deposit on each cost share amount listed in case a city decides to drop out

**did not indicate intent to participate*

Last update 4/6/2015

Attachment A
LACFCD Service Area

Exhibit E, 179 Pages

Los Angeles County Flood Control District (LACFCD) Background Information

In 1915, the Los Angeles County Flood Control Act established the LACFCD and empowered it to manage flood risk and conserve stormwater for groundwater recharge. In coordination with the United States Army Corps of Engineers, the LACFCD developed and constructed a comprehensive system that provides for the regulation and control of flood waters through the use of reservoirs and flood channels. The system also controls debris, collects surface stormwater from streets, and replenishes groundwater with stormwater and imported and recycled waters. The LACFCD covers the 2,753 square-mile portion of Los Angeles County south of the east-west projection of Avenue S, excluding Catalina Island. It is a special district governed by the County of Los Angeles Board of Supervisors, and its functions are carried out by the Los Angeles County Department of Public Works. The LACFCD service area is shown in **Figure A-1.**

Unlike cities and counties, the LACFCD does not own or operate any municipal sanitary sewer systems, public streets, roads, or highways. The LACFCD operates and maintains storm drains and other appurtenant drainage infrastructure within its service area. The LACFCD has no planning, zoning, development permitting, or other land use authority within its service area. The permittees that have such land use authority are responsible under the MS4 Permit for inspecting and controlling pollutants from industrial and commercial facilities, development projects, and development construction sites. (Permit, Part II.E, p. 17.)

The MS4 Permit language clarifies the unique role of the LACFCD in stormwater management programs: "[g]iven the LACFCD's limited land use authority, it is appropriate for the LACFCD to have a separate and uniquely-tailored stormwater management program. Accordingly, the stormwater management program minimum control measures imposed on the LACFCD in Part VI.D of this Order differ in some ways from the minimum control measures imposed on other Permittees. Namely, aside from its own properties and facilities, the LACFCD is not subject to the Industrial/Commercial Facilities Program, the Planning and Land Development Program, and the Development Construction Program. However, as a discharger of storm and non-stormwater, the LACFCD remains subject to the Public Information and Participation Program and the Illicit Connections and Illicit Discharges Elimination Program. Further, as the owner and operator of certain properties, facilities and infrastructure, the LACFCD remains subject to requirements of a Public Agency Activities Program." (Permit, Part II.F, p. 18.)

Consistent with the role and responsibilities of the LACFCD under the Permit, the EWMPs and CIMPs reflect the opportunities that are available for the LACFCD to collaborate with permittees having land use authority over the subject watershed area. In some instances, the opportunities are minimal; however, the LACFCD remains responsible for compliance with certain aspects of the MS4 permit as discussed above.

During the development of the CIMP, LACFCD infrastructure was evaluated for monitoring opportunities within the EWMP area shown in **Figure A-2**. The LACFCD will be collaborating with the groups for all of the monitoring.

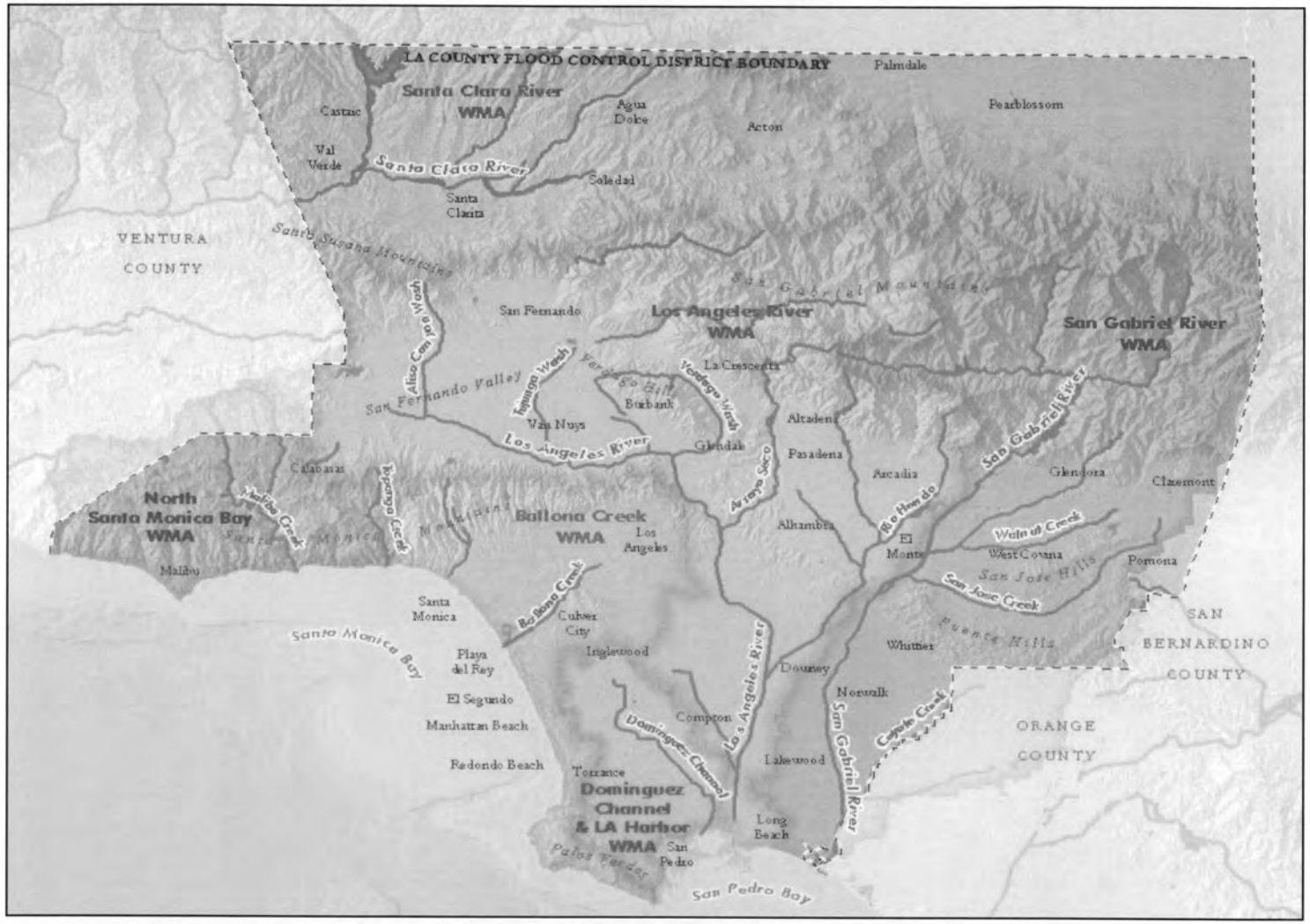


Figure A-1. Los Angeles County Flood Control District Service Area

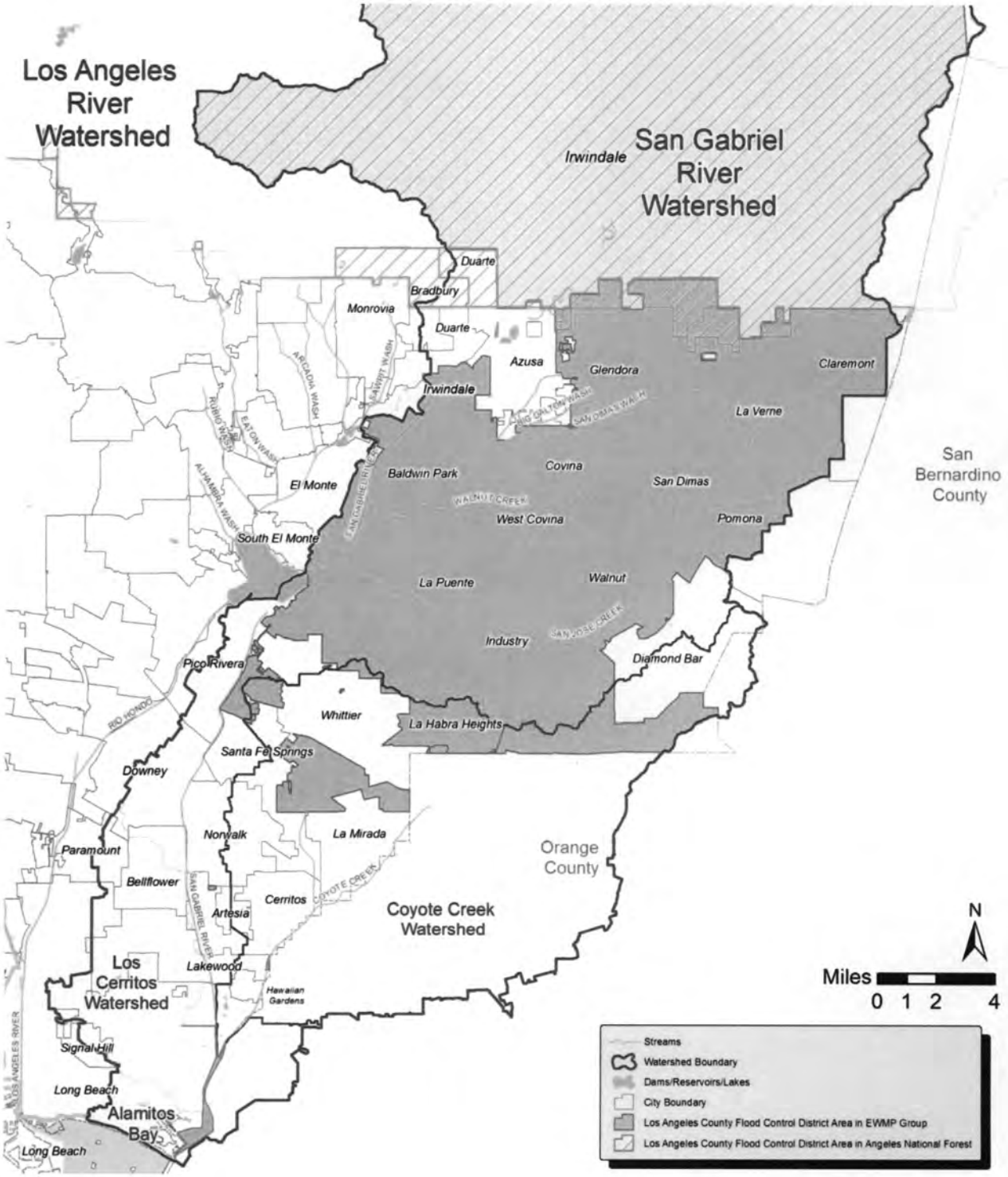


Figure A-2. Los Angeles County Flood Control District Area in USGR EWMP Group

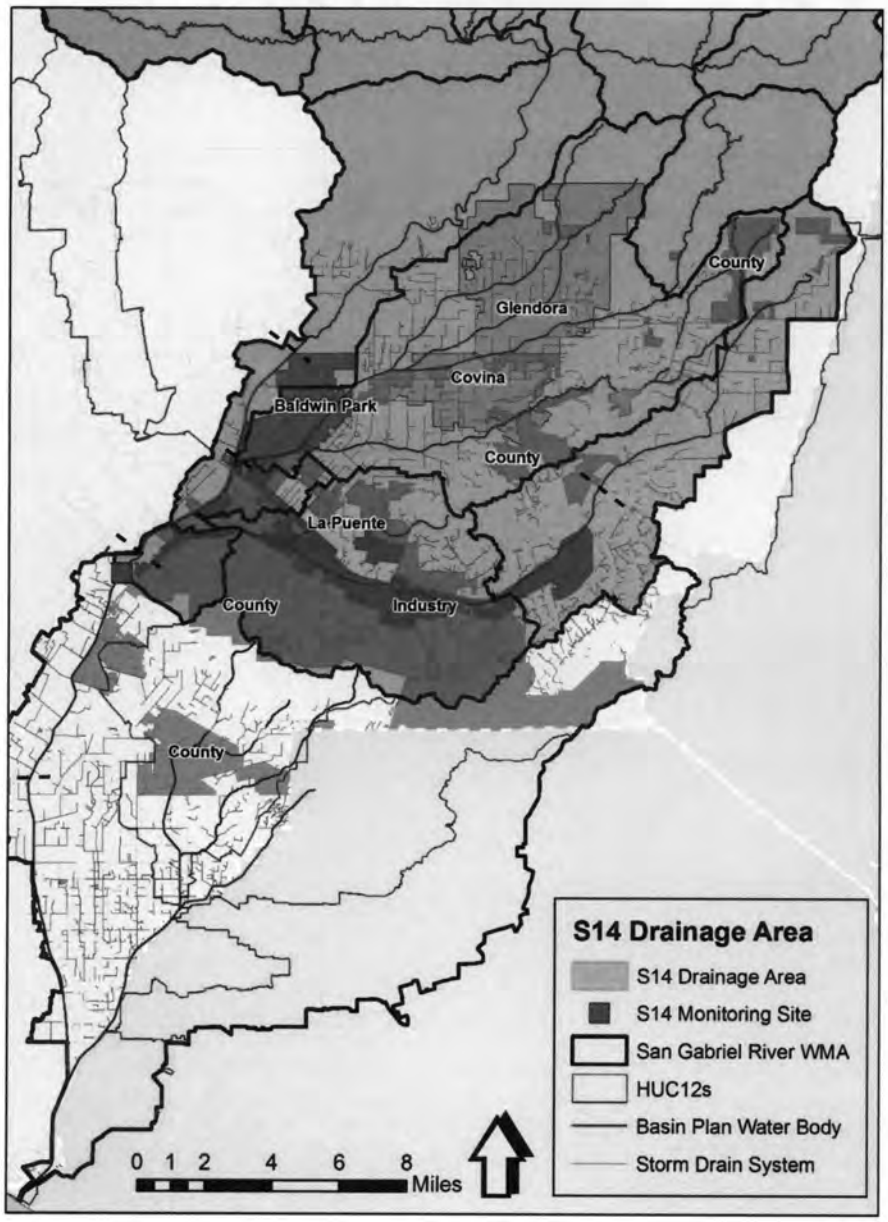
Attachment B
Monitoring Location Fact Sheets

B-1 Receiving Water Sites

B-1.1 San Gabriel River Long-Term Assessment Site

Waterbody Name	Waterbody Type	Site ID	Historical Site ID	Site Type	Latitude	Longitude
SGR Reach 3	Main Stem	S14	MS4 ME S14	LTA and TMDL	34.01277	-118.06381

General Description: LTA monitoring site located at a historic stream gage station below San Gabriel River Parkway in Pico Rivera. This monitoring site is a historic and current MS4 Mass Emission Station. Although this monitoring site is located in SGR Reach 2, it is located near the terminus of SGR Reach 3 and is representative of the conditions within SGR Reach 3.



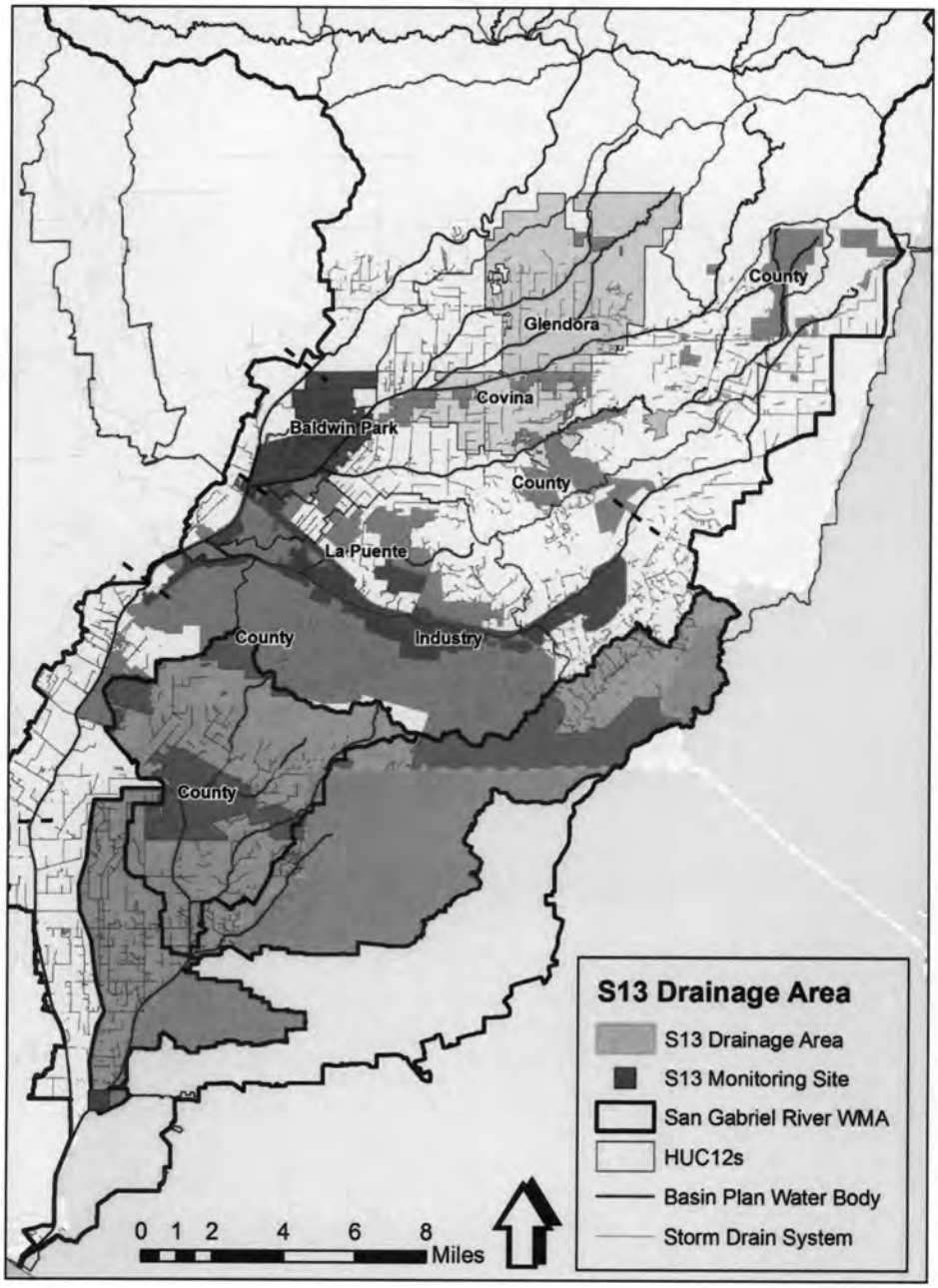
S14 Aerial View

S14 Looking Downstream

B-1.2 Coyote Creek Long-Term Assessment Site

Waterbody Name	Waterbody Type	Site ID	Historical Site ID	Site Type	Latitude	Longitude
Coyote Creek	Tributary	S13	MS4 ME S13	LTA and TMDL	33.80982	-118.07671

General Description: This monitoring location is situated at an existing Army Corps of Engineers stream gage below Spring Street in the lower San Gabriel River WMA. This is a historic and current MS4 ME station. The LSGR WMP Group will coordinate the monitoring with LACFCD.



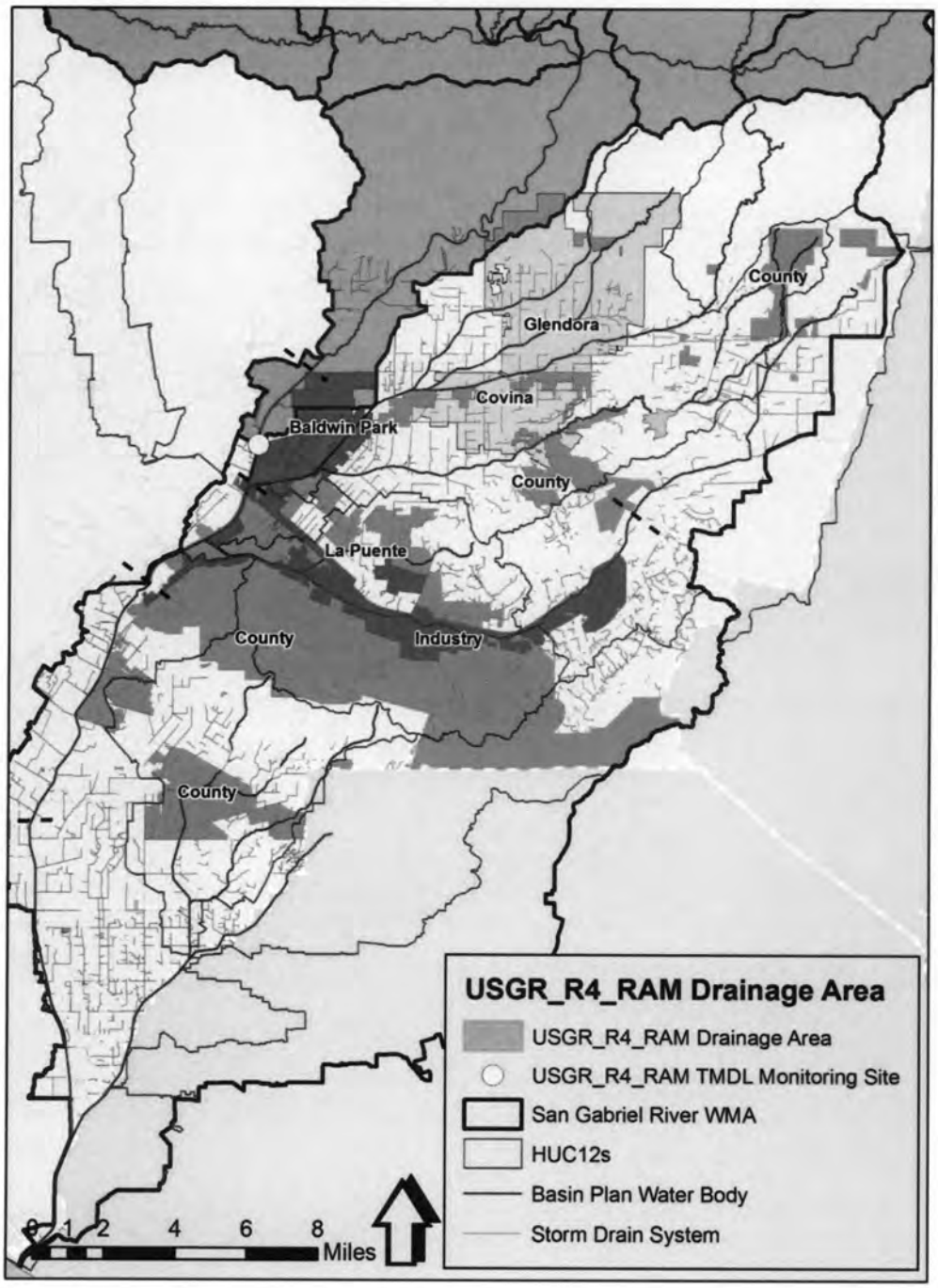
S13 Aerial View

S13 Looking Downstream

B-1.3 San Gabriel River Reach 4 TMDL Site

Waterbody Name	Waterbody Type	Site ID	Historical Site ID	Site Type	Latitude	Longitude
SGR Reach 4	Main Stem	USGR_R4_RAM	N/A	TMDL	34.07296	-118.00200

General Description: TMDL monitoring site located in San Gabriel River Reach 4 at control structure just downstream from Ramona Boulevard.



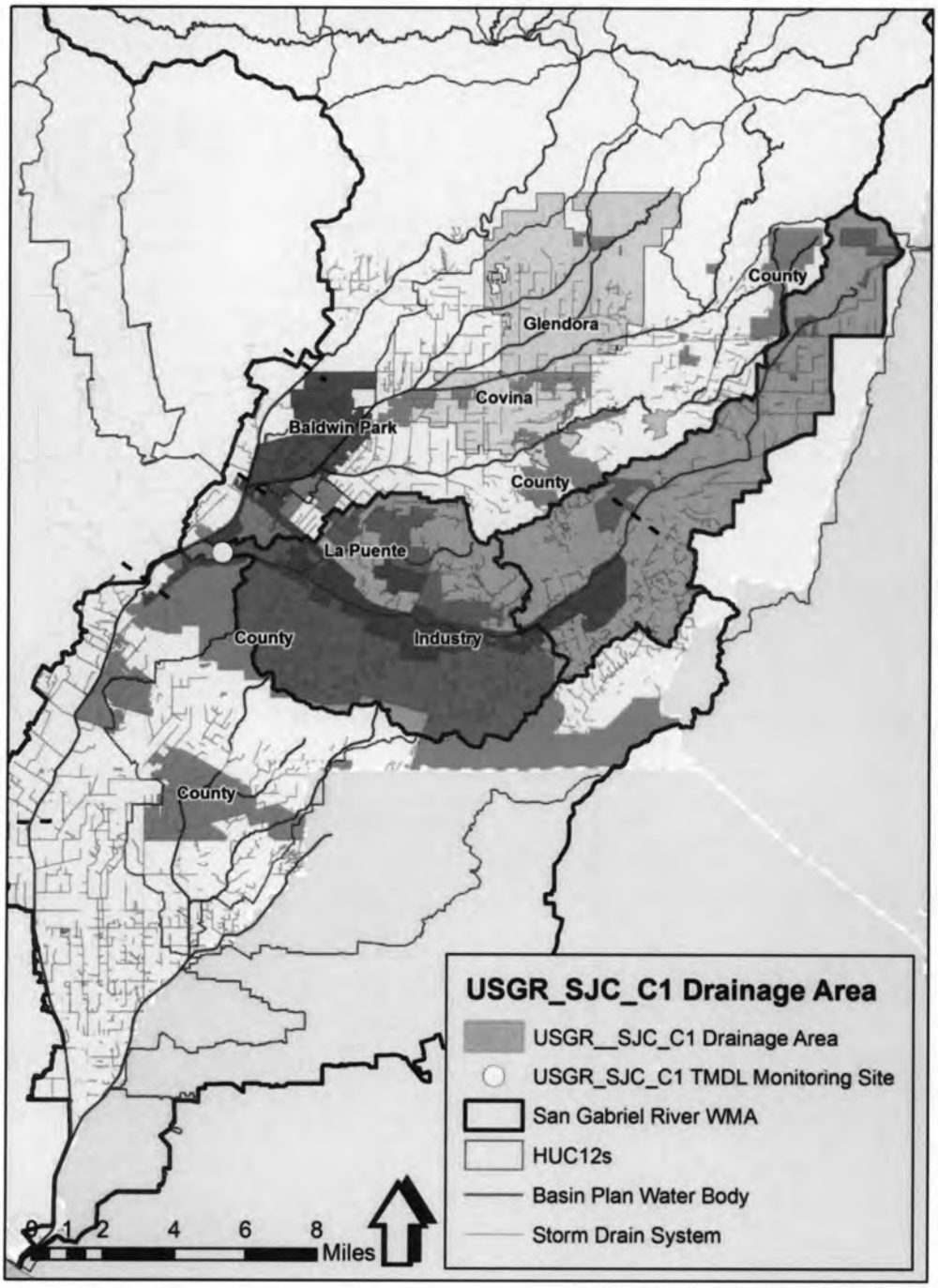
USGR_R4_RAM Aerial View

USGR_R4_RAM Looking Upstream

B-1.4 San Jose Creek Reach 1 TMDL Site

Waterbody Name	Waterbody Type	Site ID	Historical Site ID	Site Type	Latitude	Longitude
SJC Reach 1	Tributary	USGR_SJC_C-1	LACSD C-1	TMDL	34.03339	-118.01700

General Description: TMDL monitoring site located in San Jose Creek and is situated upstream of the San Jose Creek WRP discharges. The LACSD has historically monitored this site.



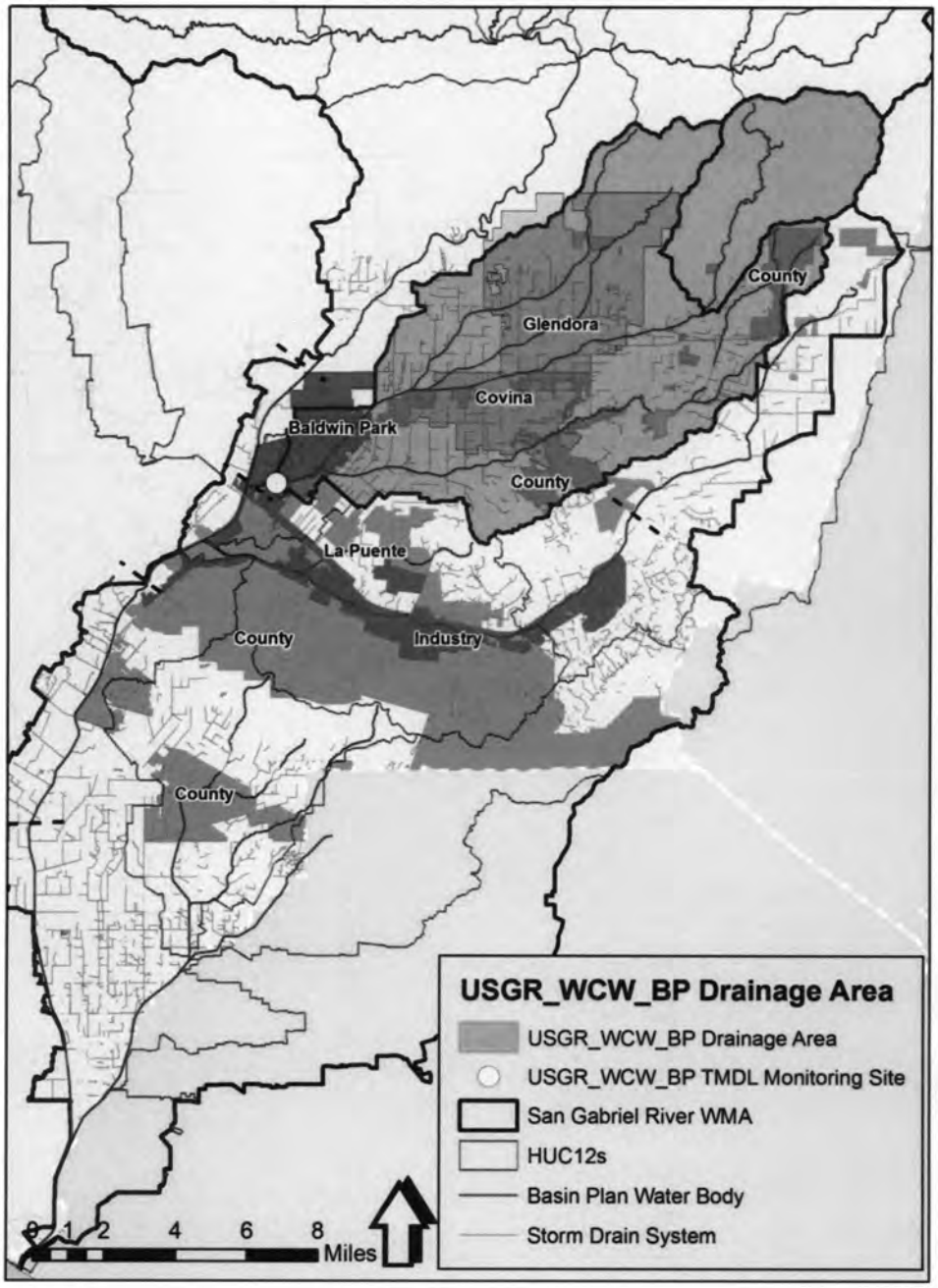
USGR_SJC_C-1 Location View

USGR_SJC_C-1 Looking Upstream

B-1.5 Walnut Creek TMDL Site

Waterbody Name	Waterbody Type	Site ID	Historical Site ID	Site Type	Latitude	Longitude
Walnut Creek Wash	Tributary	USGR_WCW_BP	LACDPW SGLT506	TMDL	34.06272	-117.98600

General Description: TMDL monitoring site located in the lined portion of Walnut Creek just upstream of the confluence with the San Gabriel River upstream of the Baldwin Park Blvd bridge.



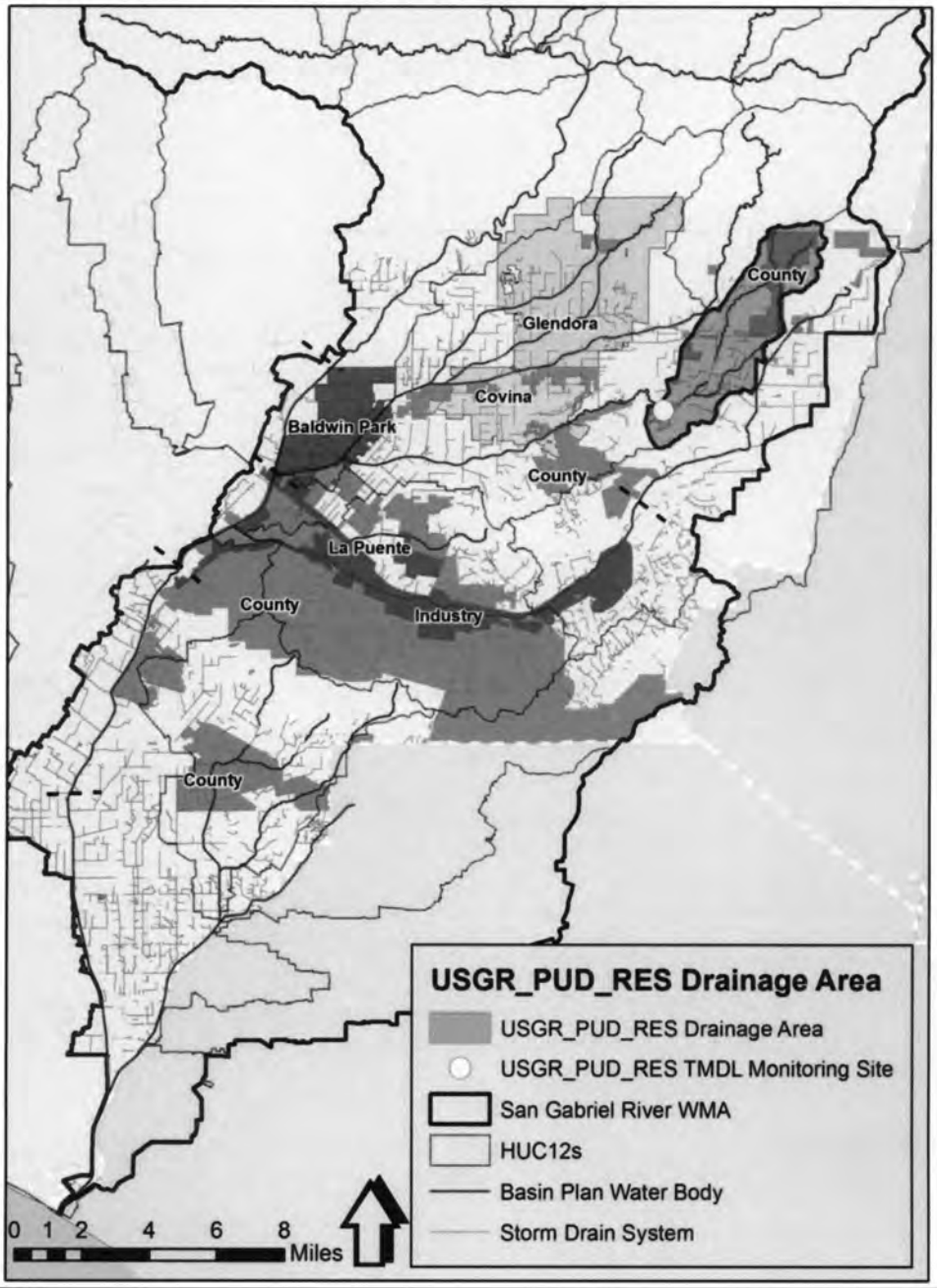
USGR_WCW_BP Location View

USGR_WCW_BP Looking Upstream

B-1.6 Puddingstone Reservoir TMDL Site

Waterbody Name	Waterbody Type	Site ID	Historical Site ID	Site Type	Latitude	Longitude
Pudding-stone Reservoir	Lake	USGR_PUD_RES	Various	TMDL	34.085689	-117.803300

General Description: The monitoring site will be located at the center of Puddingstone Reservoir. The exact location of the monitoring site may vary due to hydrologic conditions affecting reservoir levels. Fish sample collection may require locations dependent on species of fish (Largemouth bass for mercury and common carp for OC pesticide and PCBs)



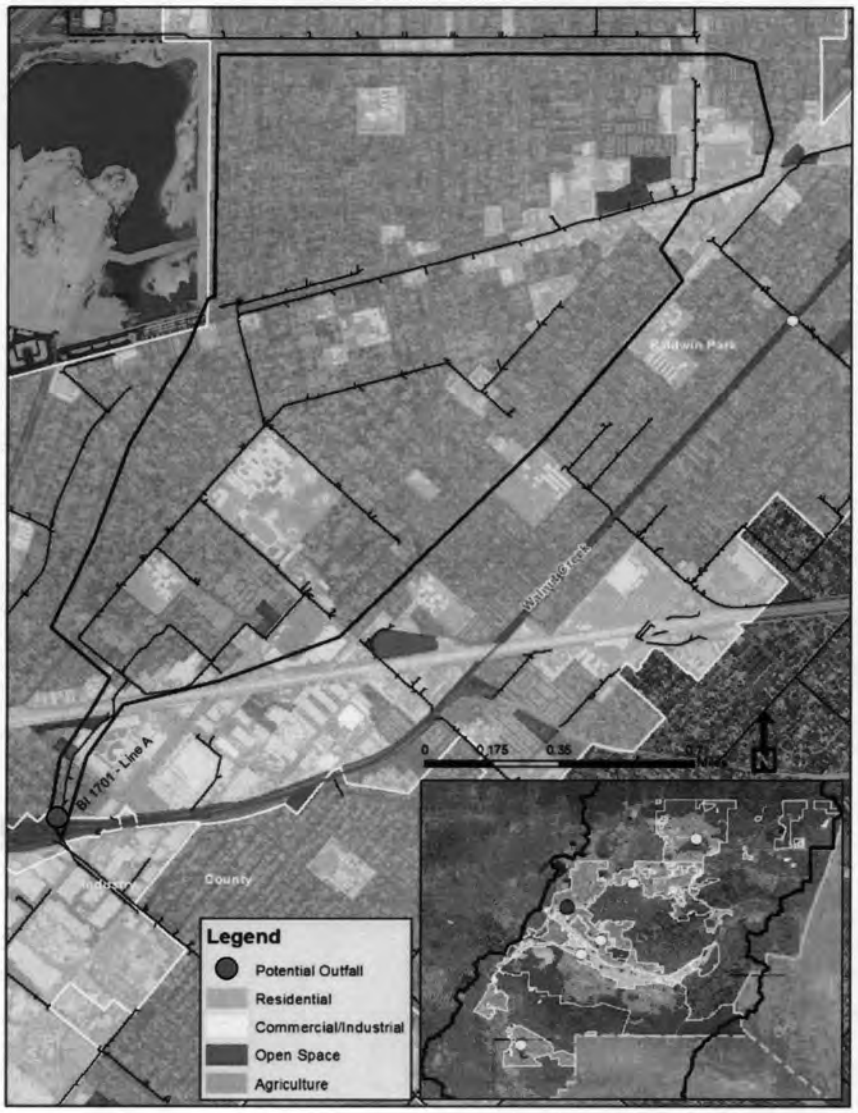
USGR_PUD_RES Aerial View

B-2 SELECTED STORMWATER OUTFALL SITES

B-2.1 BI 1701 - Line A

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
Walnut Creek Wash	Baldwin Park	BI 1701 -Line A	126 inches	SW Outfall	34.062694	-117.988920

General Description: New SW outfall monitoring site discharging to Walnut Creek Wash downstream of Baldwin Park Blvd.



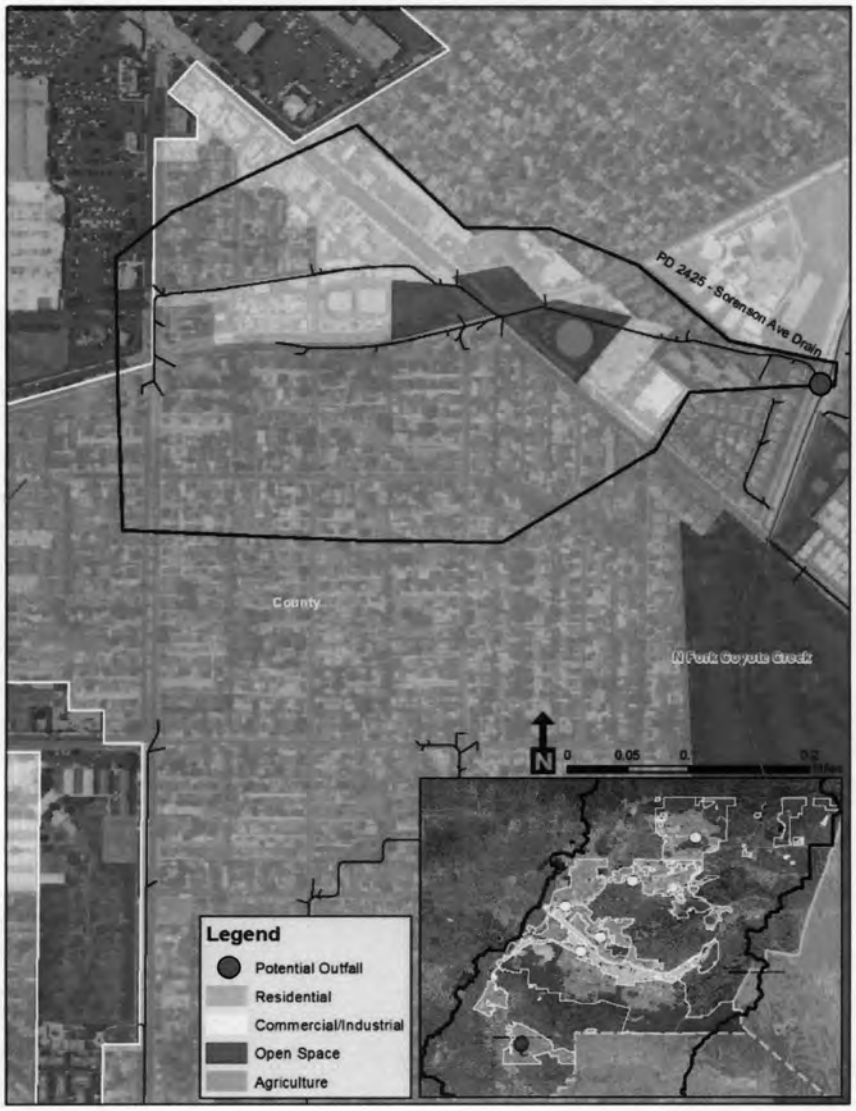
BI 1701 - Line A Aerial View

BI 1701 - Line A

B-2.2 PD 2425 –Sorenson Ave Drain

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
North Fork Coyote Creek	County	PD 2425 – Sorenson Ave Drain	36 inches	SW Outfall	33.936115	-118.036951

General Description: New SW outfall monitoring site discharging to North Fork Coyote Creek upstream of Telegraph Rd.



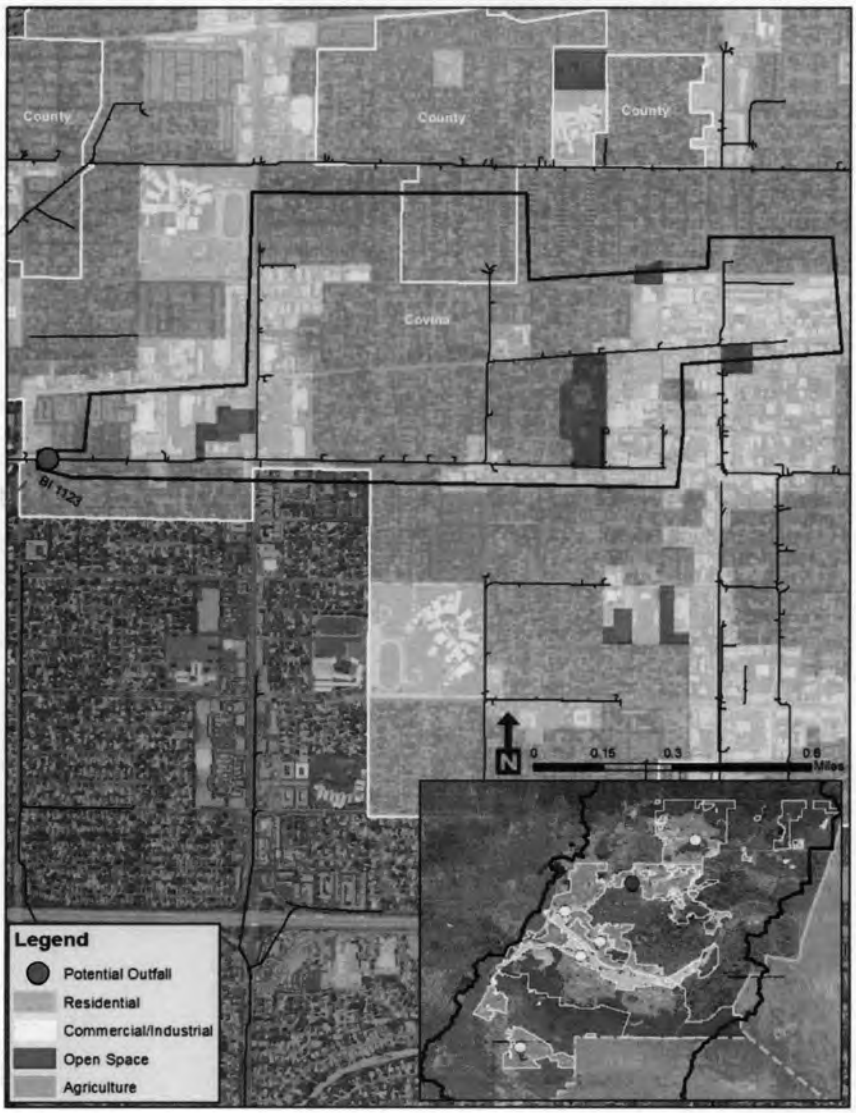
PD 2425 –Sorenson Ave Drain Aerial View

PD 2425 –Sorenson Ave Drain

B-2.3 BI 1123

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
Big Dalton Wash	Covina	BI 1123	81 inches	SW Outfall	34.086451	-117.915529

General Description: New SW outfall monitoring site discharging to Big Dalton Wash. Located on W Badillo St east of N Lark Ellen Ave at nearest manhole upstream of city boundary.



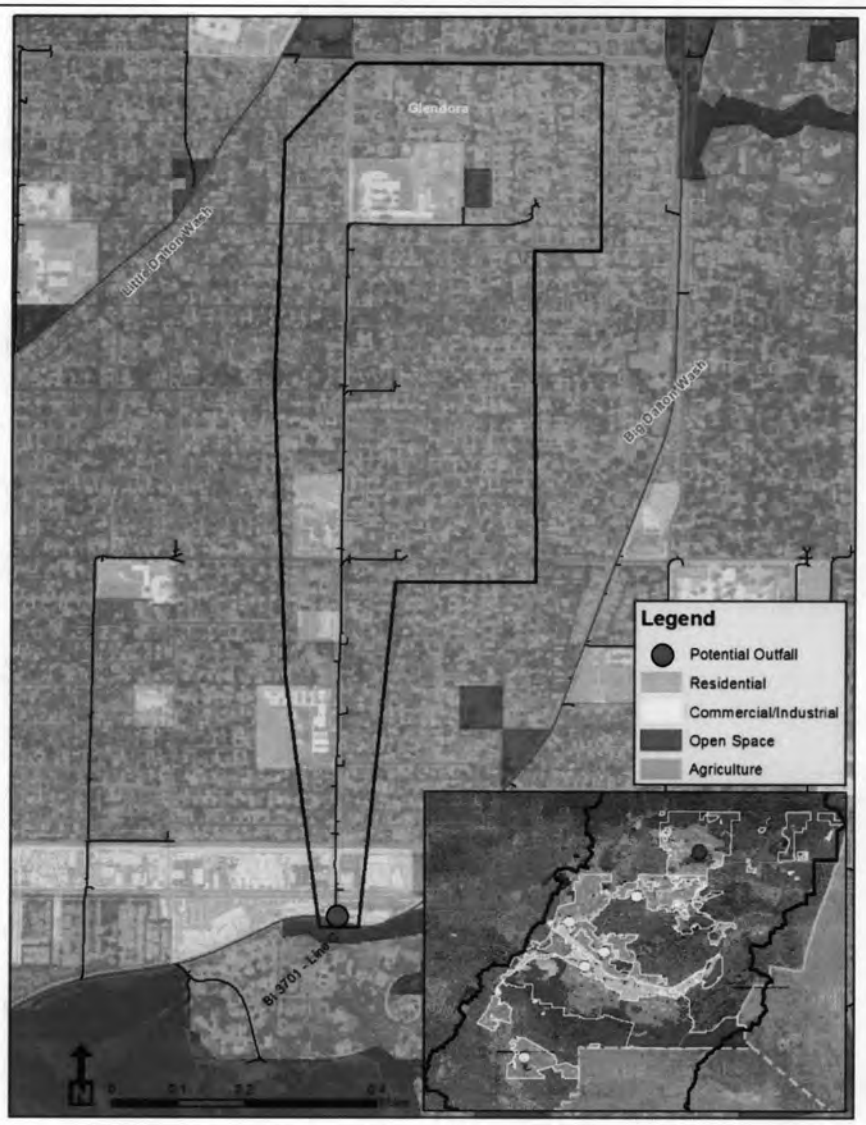
BI 1123 Aerial View

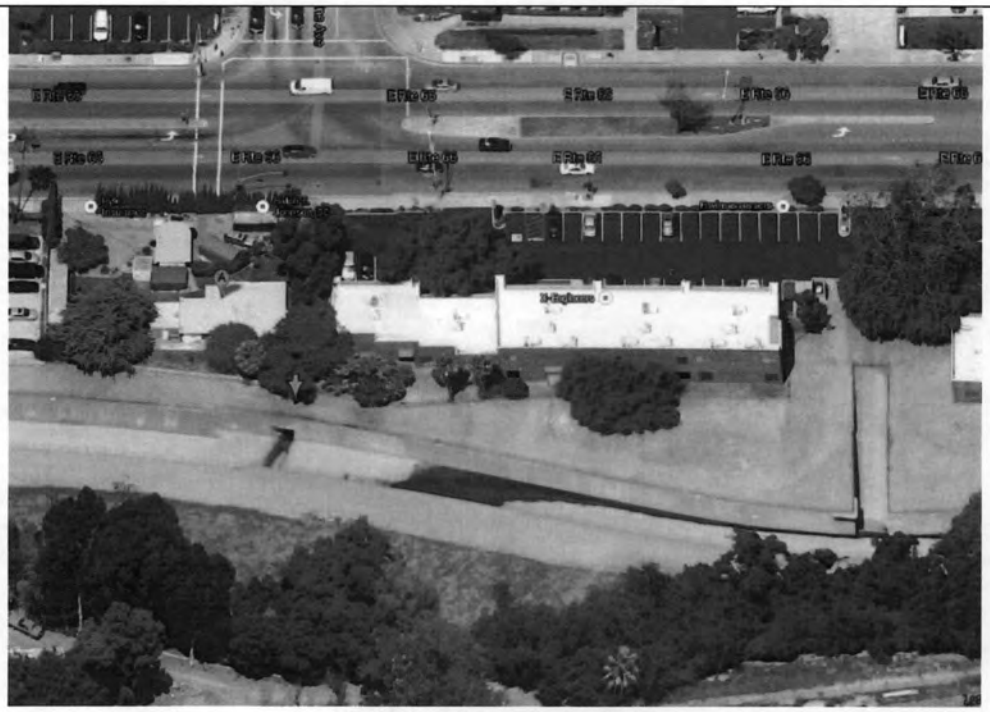
BI 1123

B-2.4 BI 3701 - Line C

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
Big Dalton Wash	Glendora	BI 3701 -Line C	60 inches	SW Outfall	34.128306	-117.846414

General Description: New SW outfall monitoring site discharging to Big Dalton Wash downstream of E Route 66.





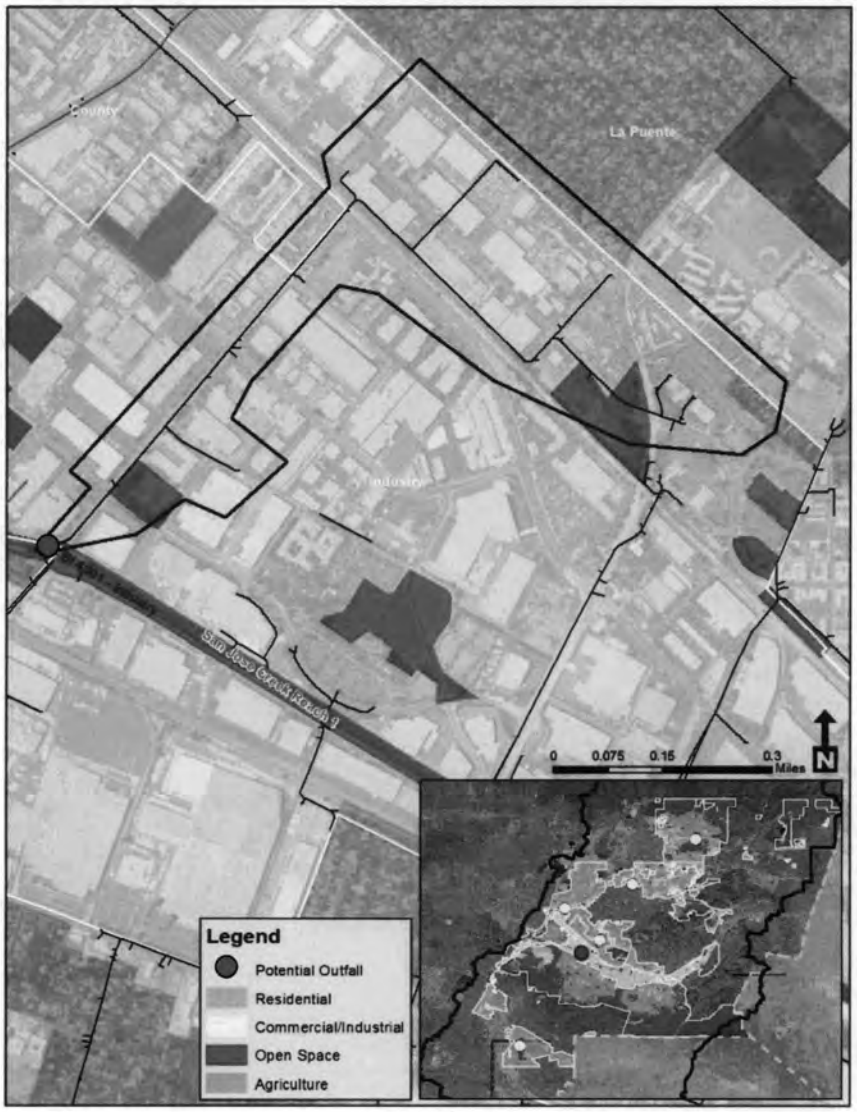
BI 3701 - Line C Aerial View

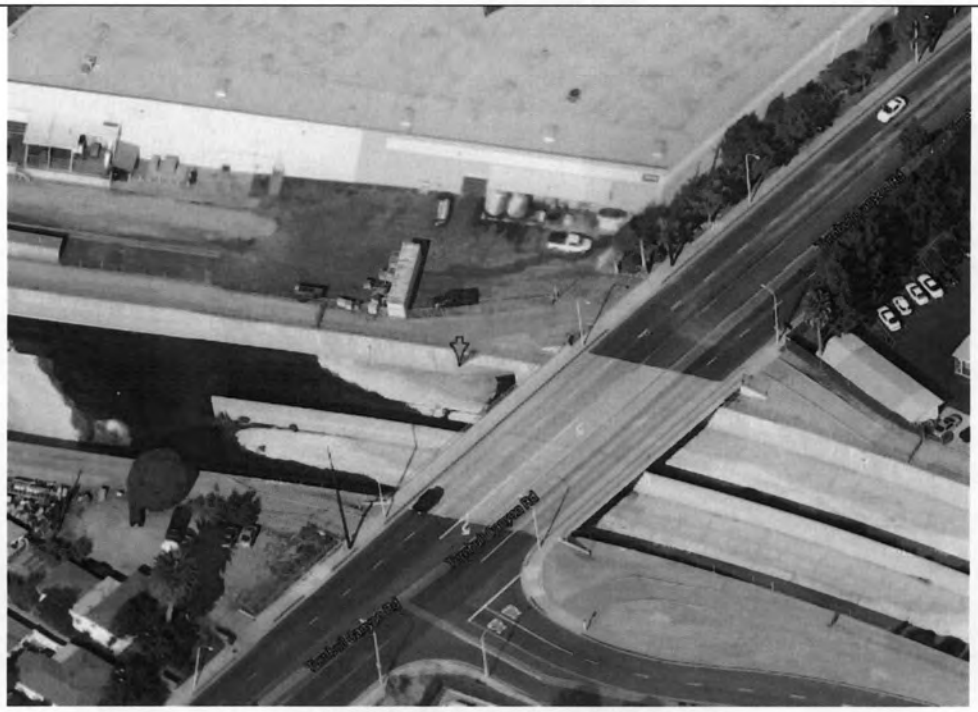
BI 3701 - Line C

B-2.5 BI 4301 –Industry

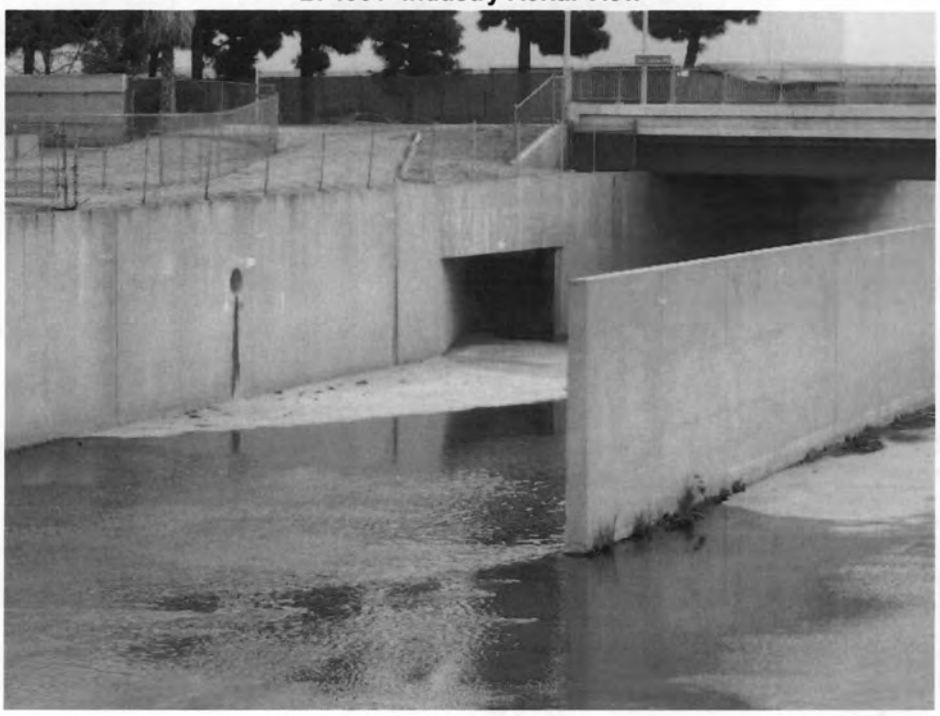
Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
San Jose Creek Reach 1	Industry	BI 4301 -Industry	72 inches	SW Outfall	34.020765	-117.971385

General Description: New SW outfall monitoring site discharging to San Jose Creek Reach 1 just downstream of Turnbull Canyon Rd.





BI 4301 -Industry Aerial View

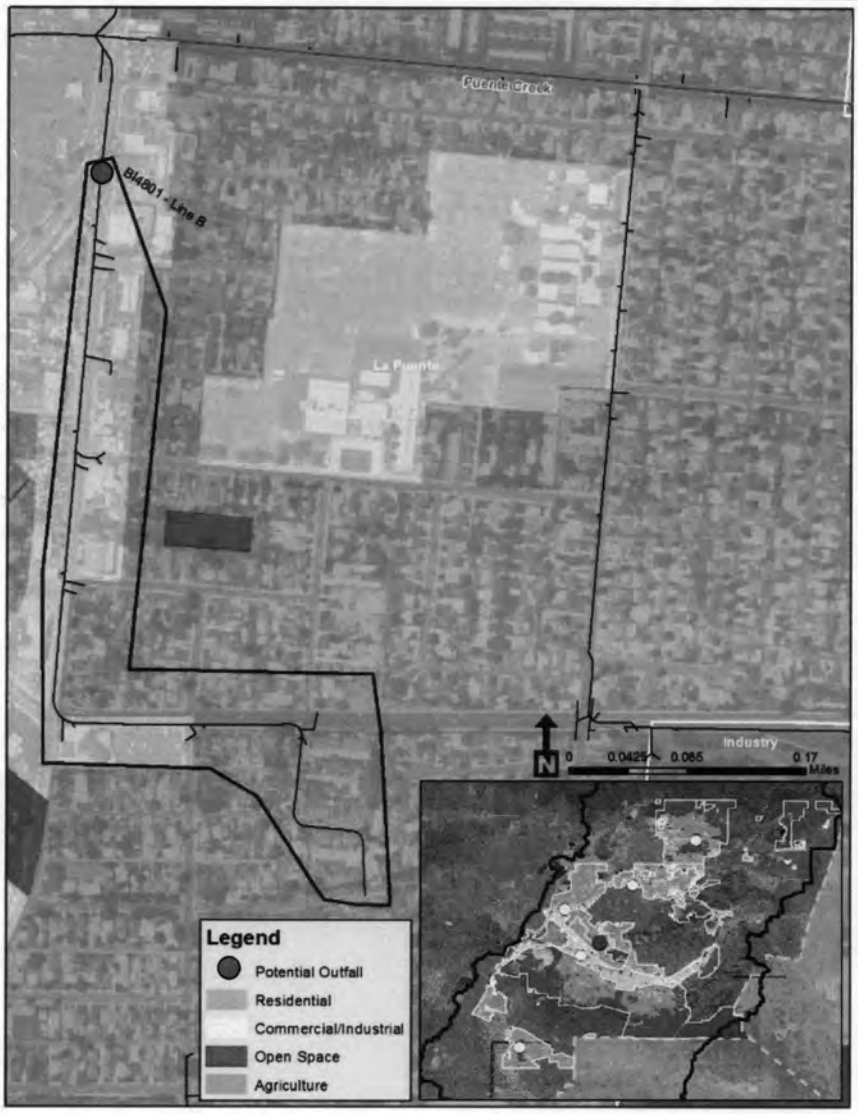


BI 4301 -Industry

B-2.6 BI 4801 –Line B

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
Puente Creek	La Puente	BI 4801 –Line B	66 inches	SW Outfall	34.033704	-117.950301

General Description: New SW outfall monitoring site discharging to Puente Creek. Located on N Hacienda Blvd just north of Glendora Ave at nearest manhole upstream of subsurface discharge to Puente Creek.



BI 4801 –Line B Aerial View

BI 4801 –Line B

Attachment C
Analytical and Monitoring Procedures

Attachment C details the monitoring procedures that will be utilized to collect and analyze samples to meet the goals and objectives of the CIMP and the Permit. The details contained herein serve as a guide for ensuring that consistent protocols and procedures are in place for successful sample collection and analysis. The attachment is divided into the following sections:

- Analytical Procedures
- Sample Method and Sample Handling
- Quality Control Sample Collection
- Instrument/Equipment Calibration and Frequency
- Data Management

C-1 ANALYTICAL PROCEDURES

The following subsections detail the analytical procedures for data generated in the field and in the laboratory.

C-1.1 Field Parameters

Portable field meters will measure field parameters within specifications outlined in **Table C-1**.

Table C-1.
Analytical Methods and Project Reporting Limits for Field Parameters

Parameter	Method	Range	Project RL
Current velocity	Electromagnetic	-0.5 to +20 ft/s	0.05 ft/s
pH	Electrometric	0 – 14 pH units	NA
Temperature	High stability thermistor	-5 – 50 oC	NA
Dissolved oxygen	Membrane	0 – 50 mg/L	0.5 mg/L
Turbidity	Nephelometric	0 – 3000 NTU	0.2 NTU
Conductivity	Graphite electrodes	0 – 10 mmhos/cm	2.5 umhos/cm

RL – Reporting Limit NA – Not applicable

C-1.2 Analytical Methods and Method Detection and Reporting Limits

Method detection limits (MDL) and reporting limits (RLs) must be distinguished for proper understanding and data use. The MDL is the minimum analyte concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. The RL represents the concentration of an analyte that can be routinely measured in the sampled matrix within stated limits and with confidence in both identification and quantitation.

For this CIMP, RLs must be verifiable by having the lowest non-zero calibration standard or calibration check sample concentration at or less than the RL. RLs have been established in this CIMP based on the verifiable levels and general measurement capabilities demonstrated for each method. These RLs should be considered as maximum allowable RLs to be used for laboratory data reporting. Note that samples diluted for analysis may have sample-specific RLs that exceed these RLs. This will be unavoidable on occasion. However, if samples are consistently diluted to overcome matrix interferences, the analytical laboratory will be required to notify the EWMP Group regarding how the sample preparation or test procedure in question will be modified to reduce matrix interferences so that project RLs can be met consistently.

Analytical methods and RLs required for samples analyzed in the laboratory are summarized in **Table C-2**, **Table C-3**, and **Table C-4** for analysis in water, sediment, and tissue, respectively. For organic constituents, environmentally relevant detection limits will be used to the extent practicable. The RLs listed in **Table C-2** are consistent with the requirements of the available minimum levels provided in the MRP, except for total dissolved solids, which was set equal to the minimum level identified in the California State Water Resources Control Board's Surface Water Ambient Monitoring Program's (SWAMP) Quality Assurance Project Plan. Alternative methods with RLs that are at or below those presented in **Table C-2**, **Table C-3**, and **Table C-4** are considered equivalent and can be used in place of the methods presented in **Table C-2**, **Table C-3**, and **Table C-4**.

Prior to the analysis of any environmental samples, the laboratory must have demonstrated the ability to meet the minimum performance requirements for each analytical method presented in **Table C-2**, **Table C-3**, and **Table C-4**. The initial demonstration of capability includes the ability to meet the project RLs, the ability to generate acceptable precision and accuracy, and other analytical and quality control parameters documented in this CIMP. Data quality objectives for precision and accuracy are summarized in **Table C-5**.

Table C-2.
Analytical Methods and Reporting Limits (RLs) for Laboratory Analysis of Water Samples

Parameter/Constituent	Method[1]	Units	Project RL	MRP Table D-2 ML
Toxicity				
Pimephales promelas	EPA-821-R-02-013 (1000.0) and EPA-821-R-02-012 (2000.0)	NA	NA	NA
Ceriodaphnia dubia	EPA-821-R-02-013 (1002.0) and EPA-821-R-02-012 (2002.0)	NA	NA	NA
Selenastrum capricornutum	EPA-821-R-02-013 (1003.0)	NA	NA	NA
Bacteria				
Escherichia coli	SM 9221	MPN/100mL	10	235
Conventionals				
Oil and Grease	EPA 1664A	mg/L	5	5
Cyanide	SM 4500-CN E	mg/L	0.005	0.005
pH	SM 4500 H+B/ EPA 9040/ EPA 9045D	NA	NA	0-14
Dissolved Oxygen	NA	mg/L	0.5	Sensitivity to 5 mg/L
Specific Conductance	EPA 120.1	µs/cm	1	1
Turbidity	EPA 180.1	NTU	0.1	0.1
Total Hardness	SM 2340C	mg/L	2	2
Dissolved Organic Carbon	SM 5310B	mg/L	0.6	NA
Total Organic Carbon	SM 5310B	mg/L	1	1

Parameter/Constituent	Method[1]	Units	Project RL	MRP Table D-2 ML
Total Petroleum Hydrocarbon	EPA 1664	mg/L	5	5
Biochemical Oxygen Demand	SMOL-5210	mg/L	5	2
Chemical Oxygen Demand	SM 5220D	mg/L	20	20-900
MBAS	SM 5540C	mg/L	0.5	0.5
Chloride	EPA 300.0	mg/L	1	2
Fluoride	EPA 300.0	mg/L	0.1	0.1
Sulfate	EPA 375.4	mg/L	1	NA
Perchlorate	EPA 314.0	µg/L	4	4
Chlorophyll a	SM 10200 H	mg/L	0.01	NA
Dissolved Phosphorus	SM 4500-P E	mg/L	0.05	0.05
Total Phosphorus	SM 4500-P E	mg/L	0.05	0.05
Orthophosphate-P	EPA 300.0	mg/L	0.2	NA
Ammonia (as N)	SM 4500-NH3 C	mg/L	0.1	0.1
Nitrate + Nitrite (as N)	EPA 300.0	mg/L	0.1	0.1
Nitrate (as N)	EPA 300.0	mg/L	0.1	0.1
Nitrite (as N)	EPA 300.0	mg/L	0.1	0.1
Total Kjehdahl Nitrogen (TKN)	SM 4500-NH3 C	mg/L	0.1	0.1
Total Alkalinity	SM 2320B	mg/L	2	2
Solids				
Suspended Sediment Concentration (SSC)	ASTMD 3977-97	mg/L	3	NA
Total Suspended Solids (TSS)	SM 2540D	mg/L	2	2
Total Dissolved Solids (TDS)	SM 2540C	mg/L	10	2
Volatile Suspended Solids	EPA 1684	mg/L	1	2
Metals in Freshwater (dissolved and total)				
Aluminum	EPA 200.8	µg/L	100	100
Antimony	EPA 200.8	µg/L	0.5	0.5
Arsenic	EPA 200.8	µg/L	1	1
Beryllium	EPA 200.8	µg/L	0.5	0.5
Cadmium	EPA 200.8	µg/L	0.25	0.25
Chromium (total)	EPA 200.8	µg/L	0.5	0.5
Chromium (Hexavalent)	EPA 200.8	µg/L	5	5
Copper	EPA 200.8	µg/L	0.5	0.5
Iron	EPA 200.8	µg/L	100	100
Lead	EPA 200.8	µg/L	0.5	0.5
Mercury	EPA 245.7 or 1631E	µg/L	0.5	0.5

Parameter/Constituent	Method[1]	Units	Project RL	MRP Table D-2 ML
Nickel	EPA 200.8	µg/L	1	1
Selenium	EPA 200.8	µg/L	1	1
Silver	EPA 200.8	µg/L	0.25	0.25
Thallium	EPA 200.8	µg/L	1	1
Zinc	EPA 200.8	µg/L	1	1
Organochlorine Pesticides				
Aldrin	EPA 608	ng/L	5	5
alpha-BHC	EPA 608	ng/L	10	10
beta-BHC	EPA 608	ng/L	5	5
delta-BHC	EPA 608	ng/L	5	5
gamma-BHC (Lindane)	EPA 608	ng/L	20	20
Chlordane-alpha	EPA 608	ng/L	100	100
Chlordane-gamma	EPA 608	ng/L	100	100
Oxychlordane	EPA 608	ng/L	200	NA
Cis-nonachlor	EPA 608	ng/L	200	NA
Trans-nonachlor	EPA 608	ng/L	200	NA
2,4'-DDD	EPA 625/ 8270C	ng/L	2	NA
2,4'-DDE	EPA 625/ 8270C	ng/L	2	NA
2,4'-DDT	EPA 625/ 8270C	ng/L	2	NA
4,4'-DDD	EPA 625/ 8270C	ng/L	50	50
4,4'-DDE	EPA 625/ 8270C	ng/L	50	50
4,4'-DDT	EPA 625/ 8270C	ng/L	10	10
Dieldrin	EPA 608	ng/L	10	10
Endosulfan I	EPA 608	ng/L	20	20
Endosulfan II	EPA 608	ng/L	10	10
Endosulfan Sulfate	EPA 608	ng/L	50	50
Endrin	EPA 608	ng/L	10	10
Endrin Aldehyde	EPA 608	ng/L	10	10
Heptachlor	EPA 608	ng/L	10	10
Heptachlor Epoxide	EPA 608	ng/L	10	10
Toxaphene	EPA 608	ng/L	500	500
PCBs				
Congeners[2]	EPA 625/ 8270C	ng/L	2	NA
Aroclors (1016, 1221, 1232, 1242, 1248, 1254, 1260)	EPA 608/ 625/ 8270C	ng/L	500	500
Organophosphorus Pesticides				

Parameter/Constituent	Method[1]	Units	Project RL	MRP Table D-2 ML
Chlorpyrifos	EPA 614	ng/L	50	50
Diazinon	EPA 614	ng/L	10	10
Malathion	EPA 614	ng/L	1000	1000
Triazine				
Atrazine	EPA 530	µg/L	2	2
Cyanazine	EPA 530	µg/L	2	2
Prometryn	EPA 530	µg/L	2	2
Simazine	EPA 530	µg/L	2	2
Dioxins				
2,3,7,8-TCDD	EPA 1613	ng/L	0.005	NA
1,2,3,7,8-PeCDD	EPA 1613	ng/L	0.025	NA
1,2,3,7,8-PeCDF	EPA 1613	ng/L	0.025	NA
2,3,4,7,8-PeCDF	EPA 1613	ng/L	0.025	NA
1,2,3,4,7,8-HxCDD	EPA 1613	ng/L	0.025	NA
1,2,3,6,7,8-HxCDD	EPA 1613	ng/L	0.025	NA
1,2,3,7,8,9-HxCDD	EPA 1613	ng/L	0.025	NA
1,2,3,4,7,8-HxCDF	EPA 1613	ng/L	0.025	NA
1,2,3,6,7,8-HxCDF	EPA 1613	ng/L	0.025	NA
1,2,3,7,8,9-HxCDF	EPA 1613	ng/L	0.025	NA
2,3,4,6,7,8-HxCDF	EPA 1613	ng/L	0.025	NA
1,2,3,4,6,7,8-HpCDD	EPA 1613	ng/L	0.025	NA
1,2,3,4,6,7,8-HpCDF	EPA 1613	ng/L	0.025	NA
1,2,3,4,7,8,9-HpCDF	EPA 1613	ng/L	0.025	NA
OCDD	EPA 1613	ng/L	0.025	NA
OCDF	EPA 1613	ng/L	0.050	NA
Herbicides				
2,4-D	EPA 8151A	µg/L	10	10
Glyphosate	EPA 547	µg/L	5	5
2,4,5-TP-SILVEX	EPA 8151A	µg/L	0.5	0.5
Semivolatile Organic Compounds (SVOCs)				
1,2-Diphenylhydrazine	EPA 625	µg/L	1	1
2,4,6-Trichlorophenol	EPA 625	µg/L	10	10
2,4-Dichlorophenol	EPA 625	µg/L	1	1
2,4-Dimethylphenol	EPA 625	µg/L	2	2
2,4-Dinitrophenol	EPA 625	µg/L	5	5
2,4-Dinitrotoluene	EPA 625	µg/L	5	5

Parameter/Constituent	Method[1]	Units	Project RL	MRP Table D-2 ML
2,6-Dinitrotoluene	EPA 625	µg/L	5	5
2-Chloronaphthalene	EPA 625	µg/L	10	10
2-Chlorophenol	EPA 625	µg/L	2	2
2-Methyl-4,6-dinitrophenol	EPA 625	µg/L	5	5
2-Nitrophenol	EPA 625	µg/L	10	10
3,3'-Dichlorobenzidine	EPA 625	µg/L	5	5
4-Bromophenyl phenyl ether	EPA 625	µg/L	5	5
4-Chloro-3-methylphenol	EPA 625	µg/L	1	1
4-Chlorophenyl phenyl ether	EPA 625	µg/L	5	5
4-Nitrophenol	EPA 625	µg/L	5	5
Acenaphthene	EPA 625	µg/L	1	1
Acenaphthylene	EPA 625	µg/L	2	2
Anthracene	EPA 625	µg/L	2	2
Benzidine	EPA 625	µg/L	5	5
Benzo(a)anthracene	EPA 625	µg/L	5	5
Benzo(a)pyrene	EPA 625	µg/L	2	2
Benzo(b)fluoranthene	EPA 625	µg/L	10	10
Benzo(g,h,i)perylene	EPA 625	µg/L	5	5
Benzo(k)fluoranthene	EPA 625	µg/L	2	2
Benzyl butyl phthalate	EPA 625	µg/L	10	10
bis(2-Chloroethoxy) methane	EPA 625	µg/L	5	5
bis(2-Chloroisopropyl) ether	EPA 625	µg/L	2	2
bis(2-Chloroethyl) ether	EPA 625	µg/L	1	1
bis(2-Ethylhexyl) phthalate	EPA 625	µg/L	5	5
Chrysene	EPA 625	µg/L	5	5
Dibenzo(a,h)anthracene	EPA 625	µg/L	0.1	0.1
Diethyl phthalate	EPA 625	µg/L	2	2
Dimethyl phthalate	EPA 625	µg/L	2	2
Di-n-butylphthalate	EPA 625	µg/L	10	10
Di-n-octylphthalate	EPA 625	µg/L	10	10
Fluoranthene	EPA 625	µg/L	0.05	0.05
Fluorene	EPA 625	µg/L	0.1	0.1
Hexachlorobenzene	EPA 625	µg/L	1	1
Hexachlorobutadiene	EPA 625	µg/L	1	1
Hexachloro-cyclo pentadiene	EPA 625	µg/L	5	5
Hexachloroethane	EPA 625	µg/L	1	1
Indeno(1,2,3-cd)pyrene	EPA 625	µg/L	0.05	0.05

Parameter/Constituent	Method[1]	Units	Project RL	MRP Table D-2 ML
Isophorone	EPA 625	µg/L	1	1
Naphthalene	EPA 625	µg/L	0.2	0.2
Nitrobenzene	EPA 625	µg/L	1	1
N-Nitroso-dimethyl amine	EPA 625	µg/L	5	5
N-Nitrosodiphenylamine	EPA 625	µg/L	1	1
N-Nitroso-di-n-propyl amine	EPA 625	µg/L	5	5
Pentachlorophenol	EPA 625	µg/L	2	2
Phenanthrene	EPA 625	µg/L	0.05	0.05
Total Phenols	EPA 625	mg/L	0.2	0.1
Phenol	EPA 625	µg/L	1	1
Pyrene	EPA 625	µg/L	0.05	0.05
Volatile Organic Compounds				
1,2,4-Trichlorobenzene	EPA 625	µg/L	1	1
1,2-Dichlorobenzene	EPA 625	µg/L	1	1
1,3-Dichlorobenzene	EPA 625	µg/L	1	1
1,4-Dichlorobenzene	EPA 625	µg/L	1	1
2-Chloroethyl vinyl ether	EPA 625	µg/L	1	1
Methyl tert-butyl ether (MTBE)	EPA 625	µg/L	1	1

RL – Reporting Limit NA – Not applicable

1. Methods may be substituted by an equivalent method that is lower than or meets the project RL.
2. Analysis for PCB congeners includes the following constituents: PCB-8, 18, 28, 31, 33, 37, 44, 49, 52, 56, 60, 66, 70, 74, 77, 81, 87, 95, 97, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 132, 138, 141, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 174, 177, 180, 183, 187, 189, 194, 195, 201, 203, 206, and 209.

Table C-3.
Analytical Methods and Reporting Limits (RLs) for Laboratory Analysis of Sediment

Parameter/Constituent	Method[1]	Units	Project RL
General Parameters			
% Solids	EPA 1684	%	NA
Total Organic Carbon (TOC)	SM5310B	% Dry Weight	0.05
Chlordane Compounds			
alpha-Chlordane	USEPA 8081A/8270C	ng/dry g	0.5
gamma-Chlordane	USEPA 8081A/8270C	ng/dry g	0.5
Oxychlordane	USEPA 8081A/8270C	ng/dry g	0.5
trans-Nonachlor	USEPA 8081A/8270C	ng/dry g	0.5
cis-Nonachlor	USEPA 8081A/8270C	ng/dry g	0.5
Other OC Pesticides			
2,4'-DDD	USEPA 8081A/8270C	ng/dry g	0.5
2,4'-DDE	USEPA 8081A/8270C	ng/dry g	0.5
2,4'-DDT	USEPA 8081A/8270C	ng/dry g	0.5
4,4'-DDD	USEPA 8081A/8270C	ng/dry g	0.5
4,4'-DDE	USEPA 8081A/8270C	ng/dry g	0.5
4,4'-DDT	USEPA 8081A/8270C	ng/dry g	0.5
Total DDT	USEPA 8081A/8270C	ng/dry g	NA
Dieldrin	USEPA 8081A/8270C	ng/dry g	0.02
PAHs			
1-Methylnaphthalene	USEPA 8270C/8270D - SIM	ng/dry g	20
1-Methylphenanthrene	USEPA 8270C/8270D - SIM	ng/dry g	20
2-Methylnaphthalene	USEPA 8270C/8270D - SIM	ng/dry g	20
2,6-Dimethylnaphthalene	USEPA 8270C/8270D - SIM	ng/dry g	20
Acenaphthene	USEPA 8270C/8270D - SIM	ng/dry g	20
Anthracene	USEPA 8270C/8270D - SIM	ng/dry g	20
Benzo(a)anthracene	USEPA 8270C/8270D - SIM	ng/dry g	20
Benzo(a)pyrene	USEPA 8270C/8270D - SIM	ng/dry g	20
Benzo(e)pyrene	USEPA 8270C/8270D - SIM	ng/dry g	20
Biphenyl	USEPA 8270C/8270D - SIM	ng/dry g	20
Chrysene	USEPA 8270C/8270D - SIM	ng/dry g	20
Dibenz(a,h)anthracene	USEPA 8270C/8270D - SIM	ng/dry g	20
Fluoranthene	USEPA 8270C/8270D - SIM	ng/dry g	20
Fluorene	USEPA 8270C/8270D - SIM	ng/dry g	20
Naphthalene	USEPA 8270C/8270D - SIM	ng/dry g	20
Perylene	USEPA 8270C/8270D - SIM	ng/dry g	20
Phenanthrene	USEPA 8270C/8270D - SIM	ng/dry g	20

Parameter/Constituent	Method[1]	Units	Project RL
Pyrene	USEPA 8270C/8270D - SIM	ng/dry g	20
Total PCBs[2]	USEPA 8270C/8270D-SIM	ng/dry g	0.2
Metals			
Cadmium	EPA 6020	µg/dry g	0.05
Copper	EPA 6020	µg/dry g	0.05
Lead	EPA 6020	µg/dry g	0.05
Silver	EPA 6020	µg/dry g	0.05
Zinc	EPA 6020	µg/dry g	0.05

RL – Reporting Limit NA – Not applicable

1. Methods may be substituted by an equivalent method that is lower than or meets the project RL.
2. Analysis for PCBs includes the following constituents: PCB-8, 18, 28, 31, 33, 37, 44, 49, 52, 56, 60, 66, 70, 74, 77, 81, 87, 95, 97, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 132, 138, 141, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 174, 177, 180, 183, 187, 189, 194, 195, 201, 203, 206, and 209.

Table C-4.
Analytical Methods and Reporting Limits (RLs) for Laboratory Analysis of Tissue

Parameter/Constituent	Method[1]	Units	Project RL
Chlordane[2]	EPA 8081A	ng/dry g	15
Dieldrin	EPA 8081A	ng/dry g	15
Mercury	EPA 7471	ng/wet g	20
DDTs[3]	EPA 8081A	ng/dry g	15
PCBs[4]	EPA 8270C	ng/dry g	5

RL – Reporting Limit NA – Not applicable

1. Methods may be substituted by an equivalent method that is lower than or meets the project RL.
2. Analysis for chlordane includes the following constituents: alpha-chlordane, gamma-chlordane, oxychlordane, cis-Nonachlor, and trans-Nonachlor.
3. Analysis for DDTs includes the following constituents: 2,4'DDD, 2,4'DDE, 2,4'DDT, 4,4'DDD, 4,4'DDE, and 4,4'DDT.
4. Analysis for PCBs includes the following constituents: PCB-8, 18, 28, 31, 33, 37, 44, 49, 52, 56, 60, 66, 70, 74, 77, 81, 87, 95, 97, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 132, 138, 141, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 174, 177, 180, 183, 187, 189, 194, 195, 201, 203, 206, and 209.

Table C-5.
Data Quality Objectives

Parameter	Accuracy	Precision	Recovery	Completeness
Field Measurements				
Water Velocity (for Flow calc.)	2%	NA	NA	90%
pH	+ 0.2 pH units	+ 0.5 pH units	NA	90%
Temperature	+ 0.5 oC	+ 5%	NA	90%
Dissolved Oxygen	+ 0.5 mg/L	+ 10%	NA	90%
Turbidity	10%	10%	NA	90%
Conductivity	5%	5%	NA	90%
Laboratory Analyses – Water				
Conventionals and Solids	80 – 120%	0 – 25%	80 – 120%	90%
Aquatic Toxicity	(1)	(2)	NA	90%
Nutrients(3)	80 – 120%	0 – 25%	90 – 110%	90%
Metals(3)	75 – 125%	0 – 25%	75 – 125%	90%
Dioxin(3)	50 – 150%	0 – 25%	50 – 150%	90%
Semi-Volatile Organics(3)	50 – 150%	0 – 25%	50 – 150%	90%
Volatile Organics(3)	50 – 150%	0 – 25%	50 – 150%	90%
Triazines(3)	50 – 150%	0 – 25%	50 – 150%	90%
Herbicides(3)	50 – 150%	0 – 25%	50 – 150%	90%
OC Pesticides(3)	50 – 150%	0 – 25%	50 – 150%	90%
PCB Congeners(3)	50 – 150%	0 – 25%	50 – 150%	90%
PCB Aroclors(3)	50 – 150%	0 – 25%	50 – 150%	90%
OP Pesticides(3)	50 – 150%	0 – 25%	50 – 150%	90%
Laboratory Analyses – Sediment				
% Solids	NA	NA	NA	90%
Total Organic Carbon (TOC)	80 – 120%	0 – 25%	80 – 120%	90%
OC Pesticides(3)	25 – 140%	0 – 30%	25 – 140%	90%
PCB Congeners(3)	60 – 125%	0 – 30%	60 – 125%	90%
PAHs(3)	50 – 150%	0 – 25%	50 – 150%	90%
Metals(3)	60 – 130%	0 – 30%	60 – 130%	90%
Laboratory Analyses – Tissue				
Chlordane(3)	50 – 150%	0 – 25%	50 – 150%	90%
DDTs(3)	35 – 140%	0 – 30%	35 – 140%	90%
Dieldrin(3)	50 – 150%	0 – 25%	50 – 150%	90%

1. Must meet all method performance criteria relative to the reference toxicant test.
2. Must meet all method performance criteria relative to sample replicates.
3. See **Table C-2**, **Table C-3**, and **Table C-4** for a list of individual constituents in each suite for water, sediment, and tissue, respectively.

C-1.2.1 Monitoring and Analysis Carried out by other Agencies

Monitoring and analysis for the existing S14 mass emission station will be carried out by LACFCD. Analysis of receiving water samples will be evaluated according to the analytical methods and method detection limits found in **Table C-6**. Monitoring and analysis for the SGRRMP in the San Gabriel River Estuary is carried out by the LACSD. Analytical methods and data quality objectives for analysis of sediment samples are found in **Table C-7** and **Table C-8**.

Table C-6.
LACFCD Analytical Methods and Reporting Limits (RLs) for Laboratory Analysis of Water

Analytical Method	Analyte	Permit ML	Unit	Comment	LACFCD's Ag Lab	
					MRL	MDL
Conventional Pollutants						
EPA 1664A	Oil and Grease	5	mg/L		5	1.44
EPA 420.1	Total Phenols	0.1	mg/L		0.1	0.03
SM 4500-CN- E	Cyanide	0.005	mg/L		0.005	0.005
SM 4500-H+ B	pH	0 - 14	pH	Field test	0.1	0.1
SM 2550B	Temperature	N/A	C	Field test	0.01	0.01
SM 4500-O G	Dissolved Oxygen	Sensitivity to 5	mg/L	Field test	1	1
BACTERIA (single sample limits)						
SM9221B	Total coliform (marine waters)	10,000	MPN/100ml		20	20
SM 9230B	Enterococcus (marine waters)	104	MPN/100ml		20	20
SM 9221E	Fecal coliform (marine & fresh waters)	400	MPN/100ml		20	20
SM 9221E/ Colilert-QT	E. coli (fresh waters)	235	MPN/100ml		1	1
GENERAL						
SM 4500-P E	Dissolved Phosphorus	0.05	mg/L		0.05	0.05
SM 4500-P E	Total Phosphorus	0.05	mg/L		0.05	0.05
SM 2130 B	Turbidity	0.1	NTU		0.1	0.1
SM 2540D	Total Suspended Solids	2	mg/L		2	1
SM 2540E	Volatile Suspended Solids	2	mg/L		1	1
SM 5310B	Total Organic Carbon	1	mg/L		1	0.5
EPA 418.1	Total Petroleum Hydrocarbon	5	mg/L		5	1.5
SM 5210 B	Biochemical Oxygen	2	mg/L		2	1

Analytical Method	Analyte	Permit ML	Unit	Comment	LACFCD's Ag Lab	
					MRL	MDL
	Demand					
SM 5220 D	Chemical Oxygen Demand	20-900	mg/L		20	10
SM 4500-NH3 C	Total Ammonia-Nitrogen	0.1	mg/L		0.1	0.1
SM4500-NH3 C	Total Kjeldahl Nitrogen	0.1	mg/L		0.1	0.1
EPA 300.0	Nitrate-N	0.1	mg/L		0.1	0.1
EPA 300.0	Nitrite -N	0.1	mg/L		0.1	0.1
SM 2320B	Alkalinity	2	mg/L		2	2
SM 2510 B	Specific Conductance	1	umho/cm		1	1
SM 2340C	Total Hardness	2	mg/L		2	2
SM 5540C	MBAS	0.5	mg/L		0.5	0.1
EPA 300.0	Chloride	2	mg/L		1	1
EPA 300.0	Fluoride	0.1	mg/L		0.1	0.1
EPA 624	Methyl tertiary butyl ether (MTBE)	1	mg/L		1	0.33
EPA 314.0	Perchlorate	4	µg/L		4	4
METALS (Dissolved & Solid)						
EPA 200.8	Aluminum	100	µg/L		100	50
EPA 200.8	Antimony	0.5	µg/L		0.5	0.5
EPA 200.8	Arsenic	1	µg/L		1	0.2
EPA 200.8	Beryllium	0.5	µg/L		0.5	0.1
EPA 200.8	Cadmium	0.25	µg/L		0.25	0.1
EPA 218.6	Chromium (Hexavalent)	5	µg/L		5	0.25
EPA 200.8	Chromium (total)	0.5	µg/L		0.5	0.5
EPA 200.8	Copper	0.5	µg/L		0.5	0.5
EPA 200.8	Iron	100	µg/L		100	50
EPA 200.8	Lead	0.5	µg/L		0.5	0.2
EPA 245.7	Mercury	0.5	µg/L		0.5	0.1
EPA 200.8	Nickel	1	µg/L		1	0.5
EPA 200.8	Selenium	1	µg/L		1	0.5
EPA 200.8	Silver	0.25	µg/L		0.25	0.1
EPA 200.8	Thallium	1	µg/L		1	0.1
EPA 200.8	Zinc	1	µg/L		1	1
SEMIVOLATILE ORGANIC COMPOUNDS						

Analytical Method	Analyte	Permit ML	Unit	Comment	LACFCD's Ag Lab	
					MRL	MDL
			ACIDS			
EPA 625	2-Chlorophenol	2	µg/L		2	0.67
EPA 625	4-Chloro-3-methylphenol	1	µg/L		1	1
EPA 625	2,4-Dichlorophenol	1	µg/L		1	1
EPA 625	2,4-Dimethylphenol	2	µg/L		2	0.67
EPA 625	2,4-Dinitrophenol	5	µg/L		5	1
EPA 625	2-Nitrophenol	10	µg/L		10	1
EPA 625	4-Nitrophenol	5	µg/L		5	1
EPA 625	Pentachlorophenol	2	µg/L		2	0.67
EPA 625	Phenol	1	µg/L		1	0.33
EPA 625	2,4,6-Trichlorophenol	10	µg/L		10	3.33
			BASE/NEUTRAL			
EPA 625	Acenaphthene	1	µg/L		1	0.33
EPA 625	Acenaphthylene	2	µg/L		2	0.67
EPA 625 SIM	Acenaphthylene	2	µg/L			
EPA 625	Anthracene	2	µg/L		2	0.67
EPA 625	Benzidine	5	µg/L		5	1.67
EPA 625	1,2 Benzanthracene	5	µg/L	Benzo(a)Ant	5	1.67
EPA 625	Benzo(a)pyrene	2	µg/L		2	0.67
EPA 625	Benzo(g,h,i)perylene	5	µg/L		5	1.67
EPA 625	3,4 Benzofluoranthene	10	µg/L	Benzo(b)fluo r	10	3.33
EPA 625	Benzo(k)flouranthene	2	µg/L		2	0.67
EPA 625	Bis(2-Chloroethoxy) methane	5	µg/L		5	1.67
EPA 625	Bis(2-Chloroisopropyl) ether	2	µg/L		2	0.67
EPA 625	Bis(2-Chloroethyl) ether	1	µg/L		1	0.33
EPA 625	Bis(2-Ethylhexyl) phthalate	5	µg/L		5	1.67
EPA 625	4-Bromophenyl phenyl ether	5	µg/L		5	1.67
EPA 625	Butyl benzyl phthalate	10	µg/L		10	3.33
EPA624	2-Chloroethyl vinyl ether	1	µg/L		1	0.33
EPA 625	2-Chloronaphthalene	10	µg/L		10	3.33

Analytical Method	Analyte	Permit ML	Unit	Comment	LACFCD's Ag Lab	
					MRL	MDL
EPA 625	4-Chlorophenyl phenyl ether	5	µg/L		5	1.67
EPA 625	Chrysene	5	µg/L		5	1.67
EPA 625	Dibenzo(a,h)anthracene	0.1	µg/L		0.1	0.033
EPA 625	1,3-Dichlorobenzene	1	µg/L		1	0.5
EPA 625	1,4-Dichlorobenzene	1	µg/L		1	0.5
EPA 625	1,2-Dichlorobenzene	1	µg/L		1	0.5
EPA 625	3,3-Dichlorobenzidine	5	µg/L		5	1.67
EPA 625	Diethyl phthalate	2	µg/L		2	1
EPA 625	Dimethyl phthalate	2	µg/L		2	1
EPA 625	di-n-Butyl phthalate	10	µg/L		10	3.33
EPA 625	2,4-Dinitrotoluene	5	µg/L		5	1.67
EPA 625	2,6-Dinitrotoluene	5	µg/L		5	1.67
EPA 625	4,6 Dinitro-2-methylphenol	5	µg/L		5	1
EPA 625	1,2-Diphenylhydrazine	1	µg/L		1	0.33
EPA 625	di-n-Octyl phthalate	10	µg/L		10	3.33
EPA 625	Fluoranthene	0.05	µg/L		0.05	0.017
EPA 625	Fluorene	0.1	µg/L		0.1	0.033
EPA 625	Hexachlorobenzene	1	µg/L		1	0.33
EPA 625	Hexachlorobutadiene	1	µg/L		1	0.33
EPA 625	Hexachloro-cyclopentadiene	5	µg/L		5	1.67
EPA 625	Hexachloroethane	1	µg/L		1	0.33
EPA 625	Indeno(1,2,3-cd)pyrene	0.05	µg/L		0.05	0.017
EPA 625	Isophorone	1	µg/L		1	0.33
EPA 625	Naphthalene	0.2	µg/L		0.2	0.067
EPA 625	Nitrobenzene	1	µg/L		1	0.33
EPA 625	N-Nitroso-dimethyl amine	5	µg/L		5	1.67
EPA 625	N-Nitroso-diphenyl amine	1	µg/L		1	0.33
EPA 625	N-Nitroso-di-n-propyl amine	5	µg/L		5	1.67
EPA 625	Phenanthrene	0.05	µg/L		0.05	0.017
EPA 625	Pyrene	0.05	µg/L		0.05	0.017
EPA 625	1,2,4-Trichlorobenzene	1	µg/L		1	0.33

Analytical Method	Analyte	Permit ML	Unit	Comment	LACFCD's Ag Lab	
					MRL	MDL
Chlorinated Pesticides						
EPA 608	Aldrin	0.005	µg/L		0.005	0.005
EPA 608	alpha-BHC	0.01	µg/L		0.01	0.01
EPA 608	beta-BHC	0.005	µg/L		0.005	0.005
EPA 608	delta-BHC	0.005	µg/L		0.005	0.005
EPA 608	gamma-BHC (lindane)	0.02	µg/L		0.02	0.02
EPA 608	alpha-chlordane	0.1	µg/L		0.1	0.1
EPA 608	gamma-chlordane	0.1	µg/L		0.1	0.1
EPA 608	4,4'-DDD	0.05	µg/L		0.05	0.05
EPA 608	4,4'-DDE	0.05	µg/L		0.05	0.05
EPA 608	4,4'-DDT	0.01	µg/L		0.01	0.01
EPA 608	Dieldrin	0.01	µg/L		0.01	0.01
EPA 608	alpha-Endosulfan	0.02	µg/L		0.02	0.02
EPA 608	beta-Endosulfan	0.01	µg/L		0.01	0.01
EPA 608	Endosulfan sulfate	0.05	µg/L		0.05	0.05
EPA 608	Endrin	0.01	µg/L		0.01	0.01
EPA 608	Endrin aldehyde	0.01	µg/L		0.01	0.01
EPA 608	Heptachlor	0.01	µg/L		0.01	0.01
EPA 608	Heptachlor Epoxide	0.01	µg/L		0.01	0.01
EPA 608	Toxaphene	0.5	µg/L		0.5	0.5
POLYCHLORINATED BIPHENYLS						
EPA 608	Aroclor-1016	0.5	µg/L		0.5	0.5
EPA 608	Aroclor-1221	0.5	µg/L		0.5	0.5
EPA 608	Aroclor-1232	0.5	µg/L		0.5	0.5
EPA 608	Aroclor-1242	0.5	µg/L		0.5	0.5
EPA 608	Aroclor-1248	0.5	µg/L		0.5	0.5
EPA 608	Aroclor-1254	0.5	µg/L		0.5	0.5
EPA 608	Aroclor-1260	0.5	µg/L		0.5	0.5
ORGANOPHOSPHATE PESTICIDES						
EPA507	Atrazine	2	µg/L		2	0.667
EPA507	Chlorpyrifos	0.05	µg/L		0.05	0.02
EPA507	Cyanazine	2	µg/L		2	0.667
EPA507	Diazinon	0.01	µg/L		0.01	0.003

Analytical Method	Analyte	Permit ML	Unit	Comment	LACFCD's Ag Lab	
					MRL	MDL
EPA507	Malathion	1	µg/L		1	0.33
EPA507	Prometryn	2	µg/L		2	0.67
EPA507	Simazine	2	µg/L		2	0.67
		HERBICIDES				
EPA 515.3	2,4-D	10	µg/L		0.2	0.02
EPA 547	Glyphosate	5	µg/L		5	5
EPA 515.3	2,4,5-TP-SILVEX	0.5	µg/L		0.2	0.067

Table C-7.
LACSD Analytical Methods and Reporting Limits (RLs) for Laboratory Analysis of Sediment

Group	AnalyteName	MethodName	Units	MDL	RL
General Chemistry	Phosphorus as P	SM 4500-P E	mg/Kg dw	0.016	0.05
	Total Kjeldahl Nitrogen	EPA 351.3	mg/Kg dw	5	5
	Total Organic Carbon	SM 5310 B	% dw	0.01	0.02
Metals	Arsenic	EPA 6020	mg/Kg dw	0.025	0.05
	Cadmium	EPA 6020	mg/Kg dw	0.025	0.05
	Chromium	EPA 6020	mg/Kg dw	0.025	0.05
	Copper	EPA 6020	mg/Kg dw	0.025	0.05
	Iron	EPA 6020	mg/Kg dw	1	5
	Lead	EPA 6020	mg/Kg dw	0.025	0.05
	Mercury	EPA 245.7	mg/Kg dw	0.00001	0.00002
	Nickel	EPA 6020	mg/Kg dw	0.025	0.05
	Selenium	EPA 6020	mg/Kg dw	0.025	0.05
	Zinc	EPA 6020	mg/Kg dw	0.025	0.05
Organochlorine	Aldrin	EPA 8270C	ng/g dw	1	5
	Chlordane, cis-	EPA 8270C	ng/g dw	1	5
	Chlordane, trans-	EPA 8270C	ng/g dw	1	5
	DDD(o,p')	EPA 8270C	ng/g dw	1	5
	DDD(p,p')	EPA 8270C	ng/g dw	1	5
	DDE(o,p')	EPA 8270C	ng/g dw	1	5
	DDE(p,p')	EPA 8270C	ng/g dw	1	5
	DDT(o,p')	EPA 8270C	ng/g dw	1	5
	DDT(p,p')	EPA 8270C	ng/g dw	1	5

Group	AnalyteName	MethodName	Units	MDL	RL
	Dieldrin	EPA 8270C	ng/g dw	1	5
	Endosulfan I	EPA 8270C	ng/g dw	1	5
	Endosulfan II	EPA 8270C	ng/g dw	1	5
	Endosulfan sulfate	EPA 8270C	ng/g dw	1	5
	Endrin	EPA 8270C	ng/g dw	1	5
	Endrin Aldehyde	EPA 8270C	ng/g dw	1	5
	Endrin Ketone	EPA 8270C	ng/g dw	1	5
	HCH, alpha	EPA 8270C	ng/g dw	1	5
	HCH, beta	EPA 8270C	ng/g dw	1	5
	HCH, delta	EPA 8270C	ng/g dw	1	5
	HCH, gamma	EPA 8270C	ng/g dw	1	5
	Heptachlor	EPA 8270C	ng/g dw	1	5
	Heptachlor epoxide	EPA 8270C	ng/g dw	1	5
	Methoxychlor	EPA 8270C	ng/g dw	1	5
	Mirex	EPA 8270C	ng/g dw	1	5
	Nonachlor, cis-	EPA 8270C	ng/g dw	1	5
	Nonachlor, trans-	EPA 8270C	ng/g dw	1	5
	Oxychlordane	EPA 8270C	ng/g dw	1	5
	Acenaphthene	EPA 8270C	ng/g dw	1	5
	Acenaphthylene	EPA 8270C	ng/g dw	1	5
PAHs	Anthracene	EPA 8270C	ng/g dw	1	5
	Benz(a)anthracene	EPA 8270C	ng/g dw	1	5
	Benzo(a)pyrene	EPA 8270C	ng/g dw	1	5
	Benzo(b)fluoranthene	EPA 8270C	ng/g dw	1	5
	Benzo(e)pyrene	EPA 8270C	ng/g dw	1	5
	Benzo(g,h,i)perylene	EPA 8270C	ng/g dw	1	5
	Benzo(k)fluoranthene	EPA 8270C	ng/g dw	1	5
	Biphenyl	EPA 8270C	ng/g dw	1	5
	Chrysene	EPA 8270C	ng/g dw	1	5
PAHs	Dibenz(a,h)anthracene	EPA 8270C	ng/g dw	1	5
	Dibenzothiophene	EPA 8270C	ng/g dw	1	5
	Dimethylnaphthalene, 2,6-	EPA 8270C	ng/g dw	1	5
	Fluoranthene	EPA 8270C	ng/g dw	1	5
	Fluorene	EPA 8270C	ng/g dw	1	5
	Indeno(1,2,3-	EPA 8270C	ng/g dw	1	5

Group	AnalyteName	MethodName	Units	MDL	RL
	c,d)pyrene				
	Methylnaphthalene, 1-	EPA 8270C	ng/g dw	1	5
	Methylnaphthalene, 2-	EPA 8270C	ng/g dw	1	5
	Methylphenanthrene, 1-	EPA 8270C	ng/g dw	1	5
	Naphthalene	EPA 8270C	ng/g dw	1	5
	Perylene	EPA 8270C	ng/g dw	1	5
	Phenanthrene	EPA 8270C	ng/g dw	1	5
	Pyrene	EPA 8270C	ng/g dw	1	5
	Trimethylnaphthalene, 2,3,5-	EPA 8270C	ng/g dw	1	5
PCBs	PCB 003	EPA 8270C	ng/g dw	1	5
	PCB 008	EPA 8270C	ng/g dw	1	5
	PCB 018	EPA 8270C	ng/g dw	1	5
	PCB 028	EPA 8270C	ng/g dw	1	5
	PCB 031	EPA 8270C	ng/g dw	1	5
	PCB 033	EPA 8270C	ng/g dw	1	5
	PCB 037	EPA 8270C	ng/g dw	1	5
	PCB 044	EPA 8270C	ng/g dw	1	5
	PCB 049	EPA 8270C	ng/g dw	1	5
	PCB 052	EPA 8270C	ng/g dw	1	5
	PCB 056	EPA 8270C	ng/g dw	1	5
	PCB 066	EPA 8270C	ng/g dw	1	5
	PCB 070	EPA 8270C	ng/g dw	1	5
	PCB 074	EPA 8270C	ng/g dw	1	5
	PCB 077	EPA 8270C	ng/g dw	1	5
	PCB 081	EPA 8270C	ng/g dw	1	5
	PCB 087	EPA 8270C	ng/g dw	1	5
	PCB 095	EPA 8270C	ng/g dw	1	5
	PCB 097	EPA 8270C	ng/g dw	1	5
	PCB 099	EPA 8270C	ng/g dw	1	5
	PCB 101	EPA 8270C	ng/g dw	1	5
	PCB 105	EPA 8270C	ng/g dw	1	5
	PCB 110	EPA 8270C	ng/g dw	1	5
	PCB 114	EPA 8270C	ng/g dw	1	5
	PCB 118	EPA 8270C	ng/g dw	1	5

Group	AnalyteName	MethodName	Units	MDL	RL
	PCB 119	EPA 8270C	ng/g dw	1	5
	PCB 123	EPA 8270C	ng/g dw	1	5
	PCB 126	EPA 8270C	ng/g dw	1	5
	PCB 128	EPA 8270C	ng/g dw	1	5
	PCB 138	EPA 8270C	ng/g dw	1	5
	PCB 141	EPA 8270C	ng/g dw	1	5
	PCB 149	EPA 8270C	ng/g dw	1	5
	PCB 151	EPA 8270C	ng/g dw	1	5
	PCB 153	EPA 8270C	ng/g dw	1	5
	PCB 156	EPA 8270C	ng/g dw	1	5
	PCB 157	EPA 8270C	ng/g dw	1	5
	PCB 158	EPA 8270C	ng/g dw	1	5
	PCB 167	EPA 8270C	ng/g dw	1	5
	PCB 168	EPA 8270C	ng/g dw	1	5
	PCB 169	EPA 8270C	ng/g dw	1	5
	PCB 170	EPA 8270C	ng/g dw	1	5
	PCB 174	EPA 8270C	ng/g dw	1	5
	PCB 177	EPA 8270C	ng/g dw	1	5
	PCB 180	EPA 8270C	ng/g dw	1	5
	PCB 183	EPA 8270C	ng/g dw	1	5
	PCB 187	EPA 8270C	ng/g dw	1	5
	PCB 189	EPA 8270C	ng/g dw	1	5
	PCB 194	EPA 8270C	ng/g dw	1	5
	PCB 195	EPA 8270C	ng/g dw	1	5
	PCB 201	EPA 8270C	ng/g dw	1	5
	PCB 206	EPA 8270C	ng/g dw	1	5
	PCB 209	EPA 8270C	ng/g dw	1	5

Table C-8. SGRRMP Data Quality Objectives

Parameter	Fraction	Accuracy		Precision	Completeness	Laboratory	Target Reporting Limits	Units
		Requirements	Recovery					
Grain Size: Estuary Sediment								
Sediment grain size	None	N/A	N/A	Laboratory Duplicate - RPD < 25%	90%	ABC	<2000 - >0.2	µm
Nutrients: Estuary Sediment								
Total Kjeldahl Nitrogen	None	None	N/A	Laboratory Duplicate - RPD < 25%	90%	IIRMES	0.04	mg/Kg dw
Phopsphorous as P	Total	Reference Material (CRM, SRM or LCS) and Matrix Spike	80 - 120%	Laboratory duplicate, Blind Field duplicate, or MS/MSD 25%. RPD Laboratory duplicate minimum.	90%	IIRMES	0.05	mg/Kg dw
Total Organic Carbon	Total					IIRMES	0.02	% dw
Metals: Estuary Sediment								
Arsenic	Total	Reference Material (CRM, SRM or LCS) and Matrix Spike. Matrix spikes sometimes have poor recovery in sediments, in which case a case a CRM and an LCS may be used.	75 -125% (70 - 130 % for Hg)	Laboratory Duplicate and Matrix Spike (or CRM) Duplicate - RPD < 25%	90%	IIRMES	0.5	mg/Kg dw
Cadmium	Total					IIRMES	0.4	mg/Kg dw
Chromium	Total					IIRMES	0.5	mg/Kg dw
Copper	Total					IIRMES	0.8	mg/Kg dw
Iron	Total					IIRMES	10	mg/Kg dw
Lead	Total					IIRMES	0.1	mg/Kg dw
Mercury	Total					IIRMES	0.02	mg/Kg dw
Nickel	Total					IIRMES	0.5	mg/Kg dw
Selenium	Total					IIRMES	0.5	mg/Kg dw
Zinc	Total					IIRMES	0.5	mg/Kg dw
Organochlorine Pesticides: Estuary Sediment								
Aldrin	Total	Reference Material (CRM, SRM or LCS) and Matrix Spike	50 - 150%	Laboratory Duplicate and Matrix Spike Duplicate - RPD < 25%	90%	IIRMES	1	ng/g dw
Chlordane, cis-	Total		50 - 150%			IIRMES	1	ng/g dw
Chlordane, trans-	Total		50 - 150%			IIRMES	1	ng/g dw
DDD(o,p')	Total		50 - 150%			IIRMES	1	ng/g dw

Parameter	Fraction	Accuracy		Precision	Completeness	Laboratory	Target Reporting Limits	Units
		Requirements	Recovery					
DDD(p,p')	Total		50 - 150%			IIRMES	1	ng/g dw
DDE(o,p')	Total		50 - 150%			IIRMES	1	ng/g dw
DDE(p,p')	Total		50 - 150%			IIRMES	1	ng/g dw
DDT(o,p')	Total		50 - 150%			IIRMES	1	ng/g dw
DDT(p,p')	Total		50 - 150%			IIRMES	1	ng/g dw
Dieldrin	Total		50 - 150%			IIRMES	1	ng/g dw
Endosulfan I	Total		50 - 150%			IIRMES	5	ng/g dw
Endosulfan II	Total		50 - 150%			IIRMES	5	ng/g dw
Endosulfan Sulfate	Total		50 - 150%			IIRMES	5	ng/g dw
Endrin	Total		50 - 150%			IIRMES	5	ng/g dw
Endrin Aldehyde	Total		33 - 138%			IIRMES	5	ng/g dw
Endrin Ketone	Total		50 - 150%			IIRMES	5	ng/g dw
HCH, alpha	Total		50 - 150%			IIRMES	1	ng/g dw
HCH, beta	Total		50 - 150%			IIRMES	1	ng/g dw
HCH, delta	Total		50 - 150%			IIRMES	1	ng/g dw
HCH, gamma	Total		50 - 150%			IIRMES	1	ng/g dw
Heptachlor	Total		50 - 150%			IIRMES	1	ng/g dw
Heptachlor Epoxide	Total		50 - 150%			IIRMES	1	ng/g dw
Methoxychlor	Total		34 - 143%			IIRMES	1	ng/g dw
Mirex	Total		50 - 150%			IIRMES	1	ng/g dw
Nonachlor, cis-	Total		50 - 150%			IIRMES	1	ng/g dw
Nonachlor, trans-	Total		50 - 150%			IIRMES	1	ng/g dw
Oxychlordane	Total		50 - 150%			IIRMES	1	ng/g dw
Toxaphene	Total		50 - 150%			IIRMES	1	
PCBs: Estuary Sediment								
PCB 003	Total	Reference Material (CRM, SRM or LCS) and Matrix	50 - 150 %	Laboratory Duplicate and Matrix Spike Duplicate - RPD <	90%	IIRMES	0.2	ng/g dw
PCB 008	Total					IIRMES	0.2	ng/g dw

Parameter	Fraction	Accuracy		Precision	Completeness	Laboratory	Target Reporting Limits	Units
		Requirements	Recovery					
PCB 018	Total	Spike		25%		IIRMES	0.2	ng/g dw
PCB 028	Total					IIRMES	0.2	ng/g dw
PCB 031	Total					IIRMES	0.2	ng/g dw
PCB 033	Total					IIRMES	0.2	ng/g dw
PCB 037	Total					IIRMES	0.2	ng/g dw
PCB 044	Total					IIRMES	0.2	ng/g dw
PCB 049	Total					IIRMES	0.2	ng/g dw
PCB 052	Total					IIRMES	0.2	ng/g dw
PCB 056	Total					IIRMES	0.2	ng/g dw
PCB 056/060	Total					IIRMES	0.2	ng/g dw
PCB 060	Total					IIRMES	0.2	ng/g dw
PCB 066	Total					IIRMES	0.2	ng/g dw
PCB 070	Total					IIRMES	0.2	ng/g dw
PCB 074	Total					IIRMES	0.2	ng/g dw
PCB 077	Total					IIRMES	0.2	ng/g dw
PCB 081	Total					IIRMES	0.2	ng/g dw
PCB 087	Total					IIRMES	0.2	ng/g dw
PCB 095	Total					IIRMES	0.2	ng/g dw
PCB 097	Total					IIRMES	0.2	ng/g dw
PCB 099	Total					IIRMES	0.2	ng/g dw
PCB 101	Total					IIRMES	0.2	ng/g dw
PCB 105	Total					IIRMES	0.2	ng/g dw
PCB 110	Total					IIRMES	0.2	ng/g dw
PCB 114	Total					IIRMES	0.2	ng/g dw
PCB 118	Total					IIRMES	0.2	ng/g dw
PCB 119	Total					IIRMES	0.2	ng/g dw
PCB 123	Total					IIRMES	0.2	ng/g dw

Parameter	Fraction	Accuracy		Precision	Completeness	Laboratory	Target Reporting Limits	Units
		Requirements	Recovery					
PCB 126	Total					IIRMES	0.2	ng/g dw
PCB 128	Total					IIRMES	0.2	ng/g dw
PCB 138	Total					IIRMES	0.2	ng/g dw
PCB 141	Total					IIRMES	0.2	ng/g dw
PCB 149	Total					IIRMES	0.2	ng/g dw
PCB 151	Total					IIRMES	0.2	ng/g dw
PCB 153	Total					IIRMES	0.2	ng/g dw
PCB 156	Total					IIRMES	0.2	ng/g dw
PCB 157	Total					IIRMES	0.2	ng/g dw
PCB 158	Total					IIRMES	0.2	ng/g dw
PCB 167	Total					IIRMES	0.2	ng/g dw
PCB 168	Total					IIRMES	0.2	ng/g dw
PCB 168/132	Total					IIRMES	0.2	ng/g dw
PCB 169	Total	Reference Material (CRM, SRM or LCS) and Matrix Spike	50 - 150 %	Laboratory Duplicate and Matrix Spike Duplicate - RPD < 25%	90%	IIRMES	0.2	ng/g dw
PCB 170	Total					IIRMES	0.2	ng/g dw
PCB 174	Total					IIRMES	0.2	ng/g dw
PCB 177	Total					IIRMES	0.2	ng/g dw
PCB 180	Total					IIRMES	0.2	ng/g dw
PCB 183	Total					IIRMES	0.2	ng/g dw
PCB 187	Total					IIRMES	0.2	ng/g dw
PCB 189	Total					IIRMES	0.2	ng/g dw
PCB 194	Total					IIRMES	0.2	ng/g dw
PCB 195	Total					IIRMES	0.2	ng/g dw
PCB 209	Total					IIRMES	0.2	ng/g dw
PAHs: Estuary Sediment		Reference Material (CRM, SRM or LCS) and Matrix Spike		Laboratory Duplicate and Matrix Spike Duplicate - RPD < 25%	90%			
Acenaphthene	Total		50 - 150%			IIRMES	5	ng/g dw
Acenaphthylene	Total		50 - 150%			IIRMES	5	ng/g dw

Parameter	Fraction	Accuracy		Precision	Completeness	Laboratory	Target Reporting Limits	Units
		Requirements	Recovery					
Anthracene	Total		50 - 150%			IIRMES	5	ng/g dw
Benz(a)anthracene	Total		50 - 150%			IIRMES	5	ng/g dw
Benzo(a)pyrene	Total		50 - 150%			IIRMES	5	ng/g dw
Benzo(b)fluoranthene	Total		50 - 150%			IIRMES	5	ng/g dw
Benzo(e)pyrene	Total		50 - 150%			IIRMES	5	ng/g dw
Benzo(g,h,i)perylene	Total		50 - 150%			IIRMES	5	ng/g dw
Benzo(k)fluoranthene	Total		50 - 150%			IIRMES	5	ng/g dw
Biphenyl	Total		50 - 150%			IIRMES	5	ng/g dw
Chrysene	Total		50 - 150%			IIRMES	5	ng/g dw
Dibenz(a,h)anthracene	Total		50 - 150%			IIRMES	5	ng/g dw
Dibenzothiophene	Total		50 - 150%			IIRMES	5	ng/g dw
Dimethylnaphthalene, 2,6-	Total		50 - 150%			IIRMES	5	ng/g dw
Fluoranthene	Total		50 - 150%			IIRMES	5	ng/g dw
Fluorene	Total		50 - 150%			IIRMES	5	ng/g dw
Indeno(1,2,3-c,d)pyrene	Total		50 - 150%			IIRMES	5	ng/g dw
Methylnaphthalene, 1-	Total		50 - 150%			IIRMES	5	ng/g dw
Methylnaphthalene, 2-	Total		50 - 150%			IIRMES	5	ng/g dw
Methylphenanthrene, 1-	Total		50 - 150%			IIRMES	5	ng/g dw
Naphthalene	Total		41 - 109%			IIRMES	5	ng/g dw
Perylene	Total		50 - 150%			IIRMES	5	ng/g dw
Phenanthrene	Total		50 - 150%			IIRMES	5	ng/g dw
Pyrene	Total		50 - 150%			IIRMES	5	ng/g dw
Trimethylnaphthalene, 2,3,5-	Total		50 - 150%			IIRMES	5	ng/g dw
Toxicity: Estuary Sediment								
Eohaustorius sp.	N/A	Meets EPA control response standards; DMR intralab results w/in criteria	N/A	Ref Tox ± 2 SD of preceding 20 tests	90%	ABC	N/A	Survival (%)
Mytilus Sediment Water Interface	N/A					ABC		Mortality/Normality (%)

Parameter	Fraction	Accuracy		Precision	Completeness	Laboratory	Target Reporting Limits	Units
		Requirements	Recovery					
Invertebrate Identifications: Estuary Sediment								
Sampling	N/A	≤10 seconds of nominal Lat/Long (300 m radius)	N/A	N/A	90%	ABC	1.0 seconds Lat/Long	N/A
Sorting	N/A	A minimum of 10% of all matriral will be resorted. Sorting accuracy within 5% (equivalent to 95% removal efficiency).	95 % Sorting Efficiency	N/A	90%	ABC	N/A	N/A

C-1.3 Method Detection Limit Studies

Any laboratory performing analyses under this program must routinely conduct MDL studies to document that the MDLs are less than or equal to the project-specified RLs. If any analytes have MDLs that do not meet the project RLs, the following steps must be taken:

- Perform a new MDL study using concentrations sufficient to prove analyte quantitation at concentrations less than or equal to the project-specified RLs per the procedure for the Determination of the Method Detection Limit presented in Revision 1.1, 40 Code of Federal Regulations (CFR) 136, 1984.
- No samples may be analyzed until the issue has been resolved. MDL study results must be available for review during audits, data review, or as requested. Current MDL study results must be reported for review and inclusion in project files.

An MDL is developed from seven aliquots of a standard containing all analytes of interest spiked at five times the expected MDL. These aliquots are processed and analyzed in the same manner as environmental samples. The results are then used to calculate the MDL. If the calculated MDL is less than 0.33 times the spiked concentration, another MDL study should be performed using lower spiked concentrations.

C-1.4 Project Reporting Limits

Laboratories generally establish RLs that are reported with the analytical results—these may be called reporting limits, detection limits, reporting detection limits, or several other terms by the reporting laboratory. These laboratory limits must be less than or equal to the project RLs listed in **Table C-2**. Wherever possible, project RLs are lower than the relevant numeric criteria or toxicity thresholds. Laboratories performing analyses for this project must have documentation to support quantitation at the required levels.

C-1.5 Laboratory Standards and Reagents

All stock standards and reagents used for standard solutions and extractions must be tracked through the laboratory. The preparation and use of all working standards must be documented according to procedures outlined in each laboratory's Quality Assurance (QA) Manual; standards must be traceable according to USEPA, A2LA or National Institute for Standards and Technology (NIST) criteria. Records must have sufficient detail to allow determination of the identity, concentration, and viability of the standards, including any dilutions performed to obtain the working standard. Date of preparation, analyte or mixture, concentration, name of preparer, lot or cylinder number, and expiration date, if applicable, must be recorded on each working standard.

C-1.6 Sample Containers, Storage, Preservation, and Holding Times

Sample containers must be pre-cleaned and certified free of contamination according to the USEPA specification for the appropriate methods. Sample container, storage and preservation, and holding time requirements are provided in **Table C-9**. The analytical laboratories will supply sample containers that already contain preservative (**Table C-9**), including ultra-pure hydrochloric and nitric acid, where applicable. After collection, samples will be stored at 4°C until arrival at the contract laboratory.

Table C-9.
Sample Container, Sample Volume, Initial Preservation, and Holding Time Requirements for Parameters Analyzed at a Laboratory

Parameter	Sample Container	Sample Volume[1]	Immediate Processing and Storage	Holding Time
Water				
Toxicity				
Initial Screening	Glass or FLPD-lined jerrican	40 L	Store at 4°C	36 hours[2]
Follow-Up Testing				
Phase I TIE				
E. coli (fresh)	PE	120 mL	Na2S2O3 and Store at 4°C	8 hours
Oil and Grease	PE	250 mL	HCl and Store at 4°C	28 days
Chlorophyll a	Amber PE	1 L	Store at 4°C	Filter w/in 48 hours, 28 days
Cyanide	PE	1 L	NaOH and Store at 4°C	14 days
Dissolved Organic Carbon (DOC)	PE	250 mL	Store at 4°C	Filter/28 days
Total Organic Carbon (TOC)	PE	250 mL	H2SO4 and Store at 4°C	28 days
Total Petroleum Hydrocarbon	Glass	1 L	HCl or H2SO4 and Store at 4°C	7/40 days[3]
Biochemical Oxygen Demand	PE	1L	Store at 4°C	48 hours
Chemical Oxygen Demand	PE	500 mL	H2SO4 and Store at 4°C	28 days
MBAS	PE	1 L	Store at 4°C	48 hours
Fluoride	PE	500 mL	None required	28 days
Chloride	PE	250 mL	Store at 4°C	28 days
Sulfate				28 days
Boron	PE	250-mL	Store at 4°C	180 days
Perchlorate	PE	500 mL	Store at 4°C	28 days
Nitrate Nitrogen	PE	250 mL	Store at 4°C	48 hours
Nitrite Nitrogen				
Orthophosphate-P				
Ammonia Nitrogen	Glass	250-mL	H2SO4 and Store at 4°C	28 days
Total and Dissolved Phosphorus				
Organic Nitrogen				
Nitrate + Nitrite (as N)				
Total Kjehdahl Nitrogen (TKN)	PE	250 mL	H2SO4 and Store at	28 days

Parameter	Sample Container	Sample Volume[1]	Immediate Processing and Storage	Holding Time
			4°C	
Total Alkalinity	PE	500 mL	Store at 4°C	14 days
Suspended Sediment Concentration (SSC)	PE	250 mL	Store at 4°C	120 days
Total Suspended Solids (TSS)	PE	250 mL	Store at 4°C	7 days
Total Dissolved Solids (TDS)	PE	250 mL	Store at 4°C	7 days
Volatile Suspended Solids	PE	250 mL	Store at 4°C	7 days
Hardness	PE	500 mL	Store at 4°C	180 days
Metals				6 months[4]
Mercury	Glass	500 mL	Store at 4°C	48 Hours
Dioxin	Amber glass	2 x 1 L	Store at 4°C	1 year
PCBs, OC Pesticides, OP Pesticides,Triazine Pesticides	Amber glass	4 x 1 L	Store at 4°C	7/40 days[3]
Suspended Solids Analysis for Organics and Metals	Amber glass	20 x 1 L	Store at 4°C	1 year[5]
Herbicides	Glass	2 x 40 mL	Thiosulfate and Store at 4°C	14 days
Semivolatile Organic Compounds	Glass	2 x 1 L	Store at 4°C	7 days
Volatile Organic Compounds	VOA	3 x 40 mL	HCl and Store at 4°C	14 days
Sediment				
% Solids	Glass	2 x 8 oz jar	Store at 4°C	7 days
Total Organic Carbon (TOC)				1 year[6]
OC Pesticides, PCBs, PAHs				1 year[5]
Metals				
Tissue				
% Lipids	teflon sheet	200 g	Store on dry ice	1 year[5]
Chlordane				
DDTs				
Dieldrin				

PE – Polyethylene

1. Additional volume may be required for QC analyses.
2. Tests should be initiated within 36 hours of collection. The 36-hour hold time does not apply to subsequent analyses for TIEs. For interpretation of toxicity results, samples may be split from toxicity samples in the laboratory and analyzed for specific chemical parameters. All other sampling requirements for these samples are as specified in this document for the specific analytical method. Results of these analyses are not for any other use (e.g., characterization of ambient conditions) because of potential holding time exceedances and variance from sampling requirements.
3. 7/40 = 7 days to extract and 40 days from extraction to analysis.
4. 6 months after preservation.
5. One year if frozen, otherwise 14 days to extract and 40 days from extraction to analysis.
6. One year if frozen, otherwise 28 days.

C-1.7 Aquatic Toxicity Testing and Toxicity Identification Evaluations

Aquatic toxicity testing supports the identification of BMPs to address sources of toxicity in urban runoff. Monitoring begins in the receiving water and the information gained is used to identify constituents for monitoring at outfalls to support the identification of pollutants that need to be addressed in the EWMP. The sub-sections below describe the detailed process for conducting aquatic toxicity monitoring, evaluating results, and the technical and logistical rationale. Control measures and management actions to address confirmed toxicity caused by urban runoff are addressed by the EWMP, either via currently identified management actions or those that are identified via adaptive management of the EWMP.

C-1.7.1 Sensitive Species Selection

The MRP (page D-32) states that a sensitivity screening to select the most sensitive test species should be conducted unless "a sensitive test species has already been determined, or if there is prior knowledge of potential toxicant(s) and a test species is sensitive to such toxicant(s), then monitoring shall be conducted using only that test species." Previous relevant studies conducted in the watershed should be considered. Such studies may have been completed via previous MS4 sampling, wastewater NPDES sampling, or special studies conducted within the watershed. The following discuss the species selection process for assessing aquatic toxicity in receiving waters.

As described in the MRP (page D-31), if samples are collected in receiving waters with salinity less than 1 part per thousand (ppt), or from outfalls discharging to receiving waters with salinity less than 1 ppt, toxicity tests should be conducted on the most sensitive test species in accordance with species and short-term test methods in Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms (EPA/821/R-02/013, 2002; Table IA, 40 CFR Part 136). The freshwater test species identified in the MRP are:

- A static renewal toxicity test with the fathead minnow, *Pimephales promelas* (Larval Survival and Growth Test Method 1000.04).
- A static renewal toxicity test with the daphnid, *Ceriodaphnia dubia* (Survival and Reproduction Test Method 1002.05).
- A static renewal toxicity test with the green alga, *Selenastrum capricornutum* (also named *Raphidocelis subcapitata*) (Growth Test Method 1003.0).

The three test species were evaluated to determine if either a sensitive test species had already been determined, or if there is prior knowledge of potential toxicant(s) and a test species is sensitive to such toxicant(s). In reviewing the available data in the watershed, metals, historical organics, and currently used pesticides have been identified as problematic and are generally considered the primary aquatic life toxicants of concern found in urban runoff. Given the knowledge of the presence of these potential toxicants in the watershed, the sensitivities of each of the three species were considered to evaluate which is the most sensitive to the potential toxicants in the watershed.

Ceriodaphnia dubia (*C. dubia*) has been reported as a sensitive test species for historical and current use of pesticides and metals, and studies indicate that it is more sensitive to the toxicants of concern than *Pimephales promelas* (*P. promelas*) or *Selenastrum capricornutum* (*S. capricornutum*). In *Aquatic Life Ambient Freshwater Quality Criteria - Copper*, the USEPA reports greater sensitivity of *C. dubia* to copper (species mean acute value of 5.93 µg/l)

compared to *P. promelas* (species mean acute value of 69.93 µg/l; EPA, 2007). *C. dubia*'s relatively higher sensitivity to metals is common across multiple metals. Additionally, researchers at the University of California (UC), Davis reviewed available reported species sensitivity values in developing pesticide criteria for the Central Valley Regional Water Quality Control Board. The UC Davis researchers reported higher sensitivity of *C. dubia* to diazinon and bifenthrin (species mean acute value of 0.34 µg/l and 0.105 µg/l) compared to *P. promelas* (species mean acute value of 7804 µg/l and 0.405 µg/l; Palumbo et al., 2010a,b). Additionally, a study of the City of Stockton urban stormwater runoff found acute and chronic toxicity to *C. dubia*, with no toxicity to *S. capricornutum* or *P. promelas* (Lee and Lee, 2001). The toxicity was attributed to organophosphate pesticides, indicating a higher sensitivity of *C. dubia* compared to *S. capricornutum* or *P. promelas*. *C. dubia* is also the test organism selected to assess the ambient toxicity of the Los Angeles River by the Los Angeles River Watershed Monitoring Program and has been the most-sensitive species to the Donald C. Tillman and the Los Angeles-Glendale Water Reclamation Plant effluent as well as the Los Angeles River receiving water in the vicinity of the water treatment plants. While *P. promelas* is generally less sensitive to metals and pesticides, this species can be more sensitive to ammonia than *C. dubia*. However, as ammonia is not typically a constituent of concern for urban runoff and ammonia is not consistently observed above the toxic thresholds in the watershed, *P. promelas* is not considered a particularly sensitive species for evaluating the impacts of urban runoff in receiving waters in the watershed.

S. capricornutum is a species sensitive to herbicides. However, while sometimes present in urban runoff, herbicides are not identified as a potential toxicant in the watershed. Additionally, *S. capricornutum* is not considered the most sensitive species as it is not sensitive to pyrethroids or organophosphate pesticides and is not as sensitive to metals as *C. dubia*. Additionally, the *S. capricornutum* growth test can be affected by high concentrations of suspended and dissolved solids, color, and pH extremes, which can interfere with the determination of sample toxicity. As a result, it is common to manipulate the sample by centrifugation and filtration to remove solids to conduct the test; however, this process may affect the toxicity of the sample. In a study of urban highway stormwater runoff (Kayhanian et. al, 2008), *S. capricornutum* response to the stormwater samples was more variable than the *C. dubia* and the *P. promelas* and in some cases the algal growth was possibly enhanced due to the presence of stimulatory nutrients. Also, in a study on the City of Stockton urban stormwater runoff (Lee and Lee, 2001) the *S. capricornutum* tests rarely detected toxicity where the *C. dubia* and the *P. promelas* regularly detected toxicity.

As *C. dubia* is identified as the most sensitive to known potential toxicant(s) typically found in receiving waters and urban runoff in the freshwater potions of the watershed, *C. dubia* is selected as the most sensitive species. The species also has the advantage of being easily maintained in house mass cultures. The simplicity of the test, the ease of interpreting results, and the smaller volume necessary to run the test, make the test a valuable screening tool. The ease of sample collection and higher sensitivity will support assessing the presence of ambient receiving water toxicity or long-term effects of toxic stormwater over time. As such, toxicity testing in the freshwater portions of the watershed will be conducted using *C. dubia*. However, *C. dubia* test organisms are typically cultured in moderately hard waters (80-100 mg/L CaCO3) and can have increased sensitivity to elevated water hardness greater than 400 mg/L CaCO3), which is beyond their typical habitat range. Because of this, in instances where hardness in site waters exceeds 400 mg/L (CaCO3), an alternative test species may be used. *Daphnia magna* is more tolerant to

high hardness levels and is a suitable substitution for *C. dubia* in these instances (Cowgill and Milazzo, 1990).

C-1.7.2 Testing Period

The following describes the testing periods to assess toxicity in samples collected in the EWMP area during dry and wet weather conditions. Although wet weather conditions in the region generally persist for less than the acute and chronic testing periods (typically 48 hours and 7 days, respectively), the shorter of the two testing methods, in the case of *C. dubia* chronic testing measuring survival, will be used for wet weather toxicity testing in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms (EPA, 2002b). Because storm events are short duration, chronic tests performed on wet weather samples are not expected to generate results representative of the typical conditions found in the receiving water intended to be simulated by toxicity testing.

Chronic toxicity tests will be used to assess both survival and reproductive/growth endpoints for *C. dubia* in dry weather samples. Chronic testing will be conducted on undiluted samples in accordance with *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms* (USEPA, 2002a).

C-1.7.3 Toxicity Endpoint Assessment and Toxicity Identification Evaluation Triggers

Per the MRP, acute and chronic toxicity test endpoints will be analyzed using the Test of Significant Toxicity (TST) t-test approach specified by the USEPA (USEPA, 2010). The Permit specifies that the chronic in-stream waste concentration (IWC) is set at 100% receiving water for receiving water samples and 100% effluent for outfall samples. Using the TST approach, a t-value is calculated for a test result and compared with a critical t-value from USEPA's TST Implementation Document (USEPA, 2010). Follow-up triggers are generally based on the Permit specified statistical assessment as described below.

For acute *C. dubia* toxicity testing, if a >50% reduction in survival or reproduction is observed between the sample and laboratory control that is statistically significant, a toxicity identification evaluation (TIE) will be performed.

TIE procedures will be initiated as soon as possible after the toxicity trigger threshold is observed to reduce the potential for loss of toxicity due to extended sample storage. If the cause of toxicity is readily apparent or is caused by pathogen related mortality or epibiont interference with the test, the result will be rejected. If necessary, a modified testing procedure will be developed for future testing.

In cases where significant endpoint toxicity effects greater than 50% are observed in the original sample, but the follow-up TIE baseline control "signal" is not statistically significant, the cause of toxicity will be considered non-persistent. No immediate follow-up testing is required on the sample. However, future test results should be evaluated to determine if parallel TIE treatments are necessary to provide an opportunity to identify the cause of toxicity

C-1.7.4 Toxicity Identification Evaluation Approach

The results of toxicity testing will be used to trigger further investigations to determine the cause of observed laboratory toxicity. The primary purpose of conducting TIEs is to support the identification of management actions that will result in the removal of pollutants causing toxicity

in receiving waters. Successful TIEs will direct monitoring at outfall sampling sites to inform management actions. As such, the goal of conducting TIEs is to identify pollutant(s) that should be sampled during outfall monitoring so that management actions can be identified to address the pollutant(s).

The TIE approach is divided into three phases as described in USEPA's 1991 Methods for Aquatic Toxicity Identification Evaluations – Phase I Toxicity Characterization Procedures – Second Edition (EPA/600/6-9/003) and briefly summarized as follows:

- Phase I utilizes methods to characterize the physical/chemical nature of the constituents that cause toxicity. Such characteristics as solubility, volatility and filterability are determined without specifically identifying the toxicants. Phase I results are intended as a first step in specifically identifying the toxicants but the data generated can also be used to develop treatment methods to remove toxicity without specific identification of the toxicants.
- Phase II utilizes methods to specifically identify toxicants.
- Phase III utilizes methods to confirm the suspected toxicants.

A Phase I TIE will be conducted on samples that exceed a TIE trigger described above. Water quality data will be reviewed to future support evaluation of potential toxicants. TIEs will perform the manipulations described in **Table C-10**. TIE methods will generally adhere to USEPA procedures documented in conducting TIEs (USEPA, 1991, 1992, 1993a-b).

Table C-10.
Aquatic Toxicity Identification Evaluation Sample Manipulations

TIE Sample Manipulation	Expected Response
pH Adjustment (pH 7 and 8.5)	Alters toxicity in pH sensitive compounds (i.e., ammonia and some trace metals)
Filtration or centrifugation	Removes particulates and associated toxicants
Ethylenedinrilo-Tetraacetic Acid (EDTA) or Cation Exchange Column*	Chelates trace metals, particularly divalent cationic metals
Sodium thiosulfate (STS) addition	Reduces toxicants attributable to oxidants (i.e., chlorine) and some trace metals
Piperonyl Butoxide (PBO)	Reduces toxicity from organophosphate pesticides such as diazinon, chlorpyrifos and malathion, and enhances pyrethroid toxicity
Carboxylesterase addition(1)	Hydrolyzes pyrethroids
Temperature adjustments(2)	Pyrethroids become more toxic when test temperatures are decreased
Solid Phase Extraction (SPE) with C18 column	Removes non-polar organics (including pesticides) and some relatively non-polar metal chelates
Sequential Solvent Extraction of C18 column	Further resolution of SPD-extracted compounds for chemical analyses
No Manipulation	Baseline test for comparing the relative effectiveness of other manipulations

* Denotes treatments that will be conducted during the initiation of toxicity monitoring, but may be revised as the program is implemented. These treatments were recommended for initial stormwater testing in Appendix E (Toxicity Testing Tool for Storm Water Discharges) of the State Water Resources Control Board's June 2012 Public Review Draft "Policy for Toxicity Assessment and Control".

1. Carboxylesterase addition has been used in recent studies to help identify pyrethroid-associated toxicity (Wheelock et al., 2004; Weston and Amweg, 2007). However, this treatment is experimental in nature and should be used along with other pyrethroid-targeted TIE treatments (e.g., PBO addition).
2. Temperature adjustments are another recent manipulation used to evaluate pyrethroid-associated toxicity. Lower temperatures increase the lethality of pyrethroid pesticides. (Harwood, You and Lydy, 2009)

The USGR EWMP Group will identify the cause(s) of toxicity using the treatments in **Table C-10** and, if possible, using the results of water column chemistry analyses. After any initial determinations of the cause of toxicity, the information may be used during future events to modify the targeted treatments to more closely target the expected toxicant or to provide additional treatments to narrow the toxicant cause(s). Moreover, if the toxicant or toxicant class is not initially identified, toxicity monitoring during subsequent events will confirm if the toxicant is persistent or a short-term episodic occurrence.

As the primary goals of conducting TIEs is to identify pollutants for incorporation into outfall monitoring, narrowing the list of toxicants following Phase I TIEs via Phase II or III TIEs is not necessary if the toxicant class determined during the Phase I TIE is sufficient for: (1) identifying additional pollutants for outfall monitoring; and/or (2) identifying control measures. Thus, if the specific pollutant(s) or the analytical class of pollutant (e.g., metals that are analyzed via USEPA Method 200.8) are identified then sufficient information is available to inform the addition of pollutants to outfall monitoring.

Phase II TIEs may identify pollutant or analytical class of pollutants, the result of a TIE is considered conclusive, and utilized to identify specific constituents causing toxicity in a given sample if information beyond what is gained via the Phase I TIE and review of chemistry data is needed to identify constituents to monitor or management actions. Phase III TIEs will be conducted following any Phase II TIEs.

For the purposes of determining whether a TIE is inconclusive, TIEs will be considered inconclusive if:

- The toxicity is persistent (i.e., observed in the baseline), and
- The cause of toxicity cannot be attributed to a class of constituents (e.g., insecticides, metals, etc.) that can be targeted for monitoring.

If (1) a combination of causes that act in a synergistic or additive manner are identified; (2) the toxicity can be removed with a treatment or via a combination of the TIE treatments; or (3) the analysis of water quality data collected during the same event identify the pollutant or analytical class of pollutants, the result of a TIE is considered conclusive.

In cases where significant endpoint toxicity effects ≥50% are observed in the original sample, but the follow-up TIE baseline "signal" is not statistically significant, the cause of toxicity will be considered non-persistent. No immediate follow-up testing is required on the sample. However, future test results should be evaluated to determine if parallel TIE treatments are necessary to provide an opportunity to identify the cause of toxicity.

Note that the MRP (page D-33) allows a TIE Prioritization Metric (as described in Appendix E of the Southern California Stormwater Monitoring Coalition's (SMC) Model Monitoring Program) for use in ranking sites for TIEs. However, as the extent to which TIEs will be conducted is unknown, prioritization cannot be conducted at this time. However, prioritization may be utilized in the future based on the results of toxicity monitoring and an approach to

prioritization will be developed through the CIMP adaptive management process and will be described in future Annual Reports.

1.1.1 Follow Up on Toxicity Testing Results

Per Parts VIII.B.c.vi and XI.G.1.d of the MRP, if the results of a TIE on a receiving sample are inconclusive, a toxicity test conducted during the same condition (i.e., wet or dry weather), using the same test species, will be conducted at applicable upstream outfalls as soon as feasible (i.e., the next monitoring event that is at least 45 days following the toxicity laboratory's report transmitting the results of a inconclusive TIE). The same TIE approach presented in Sections **C-1.7.3** and **C-1.7.4**, respectively will be followed based on the results of the outfall sample.

If a toxicant or class of toxicants is identified through a TIE, the MRP (page E-33) indicates the following actions should be taken:

- Group Members shall analyze for the toxicant(s) during the next scheduled sampling event in the discharge from the outfall(s) upstream of the receiving water location.
- If the toxicant is present in the discharge from the outfall at levels above the applicable receiving water limitation, a toxicity reduction evaluation (TRE) will be performed for that toxicant.

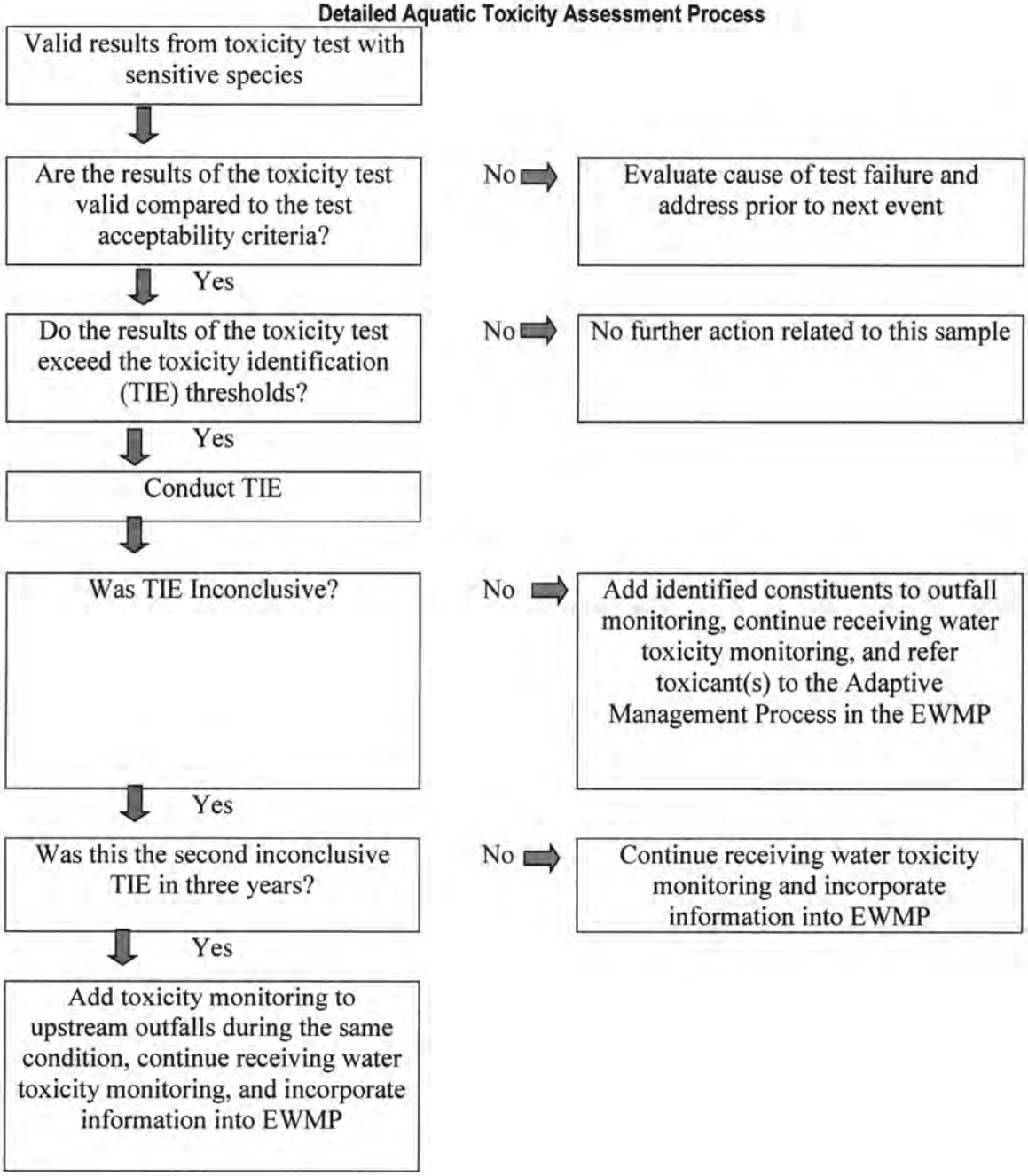
The list of constituents monitored at outfalls identified in the CIMP will be modified based on the results of the TIEs. Monitoring for constituents identified based on the results of a TIE will occur as soon as feasible following the completion of a successful TIE (i.e., the next monitoring event that is at least 45 days following the toxicity laboratory's report transmitting the results of a successful TIE).

The requirements of the TREs will be met as part of the adaptive management process in the USGR EWMP rather than conducted via the CIMP. The identification and implementation of control measures to address the causes of toxicity are tied to management of the stormwater program, not the CIMP. It is expected that the requirements of TREs will only be conducted for toxicants that are not already addressed by an existing Permit requirement (i.e., TMDLs) or existing or planned management actions.

C-1.7.5 Summary of Aquatic Toxicity Monitoring

The approach to conducting aquatic toxicity monitoring as described in the previous sections of this Attachment is summarized in detail in . The intent of the approach is to identify the cause of toxicity observed in receiving water to the extent possible with the toxicity testing tools available, thereby directing outfall monitoring for the pollutants causing toxicity with the ultimate goal of supporting the development and implementation of management actions.

Figure D-1.
Detailed Aquatic Toxicity Assessment Process



C-1.8 Bio-Assessment/Macrobenthic Community Assessment

The LACFCD has indicated that it will continue its participation in the SMC Regional Bioassessment Monitoring Program on behalf of all MS4 Permittees. Thus no specific monitoring and analytical procedures are included in the CIMP at this time. If in the future, such monitoring is necessary under this program, the CIMP will be revised to include appropriate procedures.

C-1.8.1 List of Laboratories Conducting Analysis

The chosen laboratories will be able to meet the measurement quality objectives set forth in **Table C-2** through **Table C-5**. Laboratories will meet California Environmental Laboratory Accreditation Program (ELAP) and/or National Environmental Laboratory Accreditation Program (NELAP) certifications and any data quality requirements specified in this document. Due to contracting procedures and solicitation requirements, qualified laboratories have not yet been selected to carry out the analytical responsibilities described in this CIMP. Selected laboratories will be listed along with lab certification information in **Table C-11**. Following the completion of the first monitoring year, the CIMP will be updated to include the pertinent laboratory specific information. At the end of all future monitoring years the USGR EWMP Group will assess the laboratories performance and at that time a new laboratory may be chosen.

Table C-11.
Summary of Laboratories Conducting Analysis for the USGR CIMP

Laboratory[1]	General Category of Analysis	Lab Certification No. & Expiration Date[2]

1. Information for all laboratories will be added to this table following their selection and upon CIMP update.
2. Lab certifications are renewed on an annual basis.

In the event that the laboratories selected to perform analyses for the CIMP are unable to fulfill data quality requirements outlined herein (e.g., due to instrument malfunction), alternate laboratories need to meet the same requirements that the primary labs have met. The original laboratory selected may recommend a qualified laboratory to act as a substitute. However, the final decision regarding alternate laboratory selection rests with the USGR EWMP Group.

C-2 Sampling Method and Sample Handling

The following sections describe the steps to be taken to properly prepare for and initiate water quality sampling for the CIMP.

C-2.1 Monitoring Event Preparation

Monitoring event preparation includes preparation of field equipment, placing bottle orders, and contacting the necessary personnel regarding site access and schedule. The following steps will be completed two weeks prior to each sampling event (a condensed timeline may be appropriate in storm events, which may need to be completed on short notice):

1. Contact laboratories to order sample containers and to coordinate sample transportation details.
2. Confirm scheduled monitoring date with field crew(s), and set-up sampling day itinerary including sample drop-off.
3. Prepare equipment.
4. Prepare sample container labels and apply to bottles.
5. Prepare the monitoring event summary and field log sheets to indicate the type of field measurements, field observations and samples to be collected at each of the monitoring sites.
6. Verify that field measurement equipment is operating properly (i.e., check batteries, calibrate, etc.)

Table C-12 provides a checklist of field equipment to prepare prior to each monitoring event.

Table C-12.
Field Equipment Checklist

☐	Monitoring Plan
☐	Sample Containers plus Extras with Extra Lids
☐	Pre-Printed, Waterproof Labels (extra blank sheets)
☐	Event Summary Sheets
☐	Field Log Sheets
☐	Chain of Custody Forms
☐	Bubble Wrap
☐	Coolers with Ice
☐	Tape Measure
☐	Paper Towels or "Rags in a Box"
☐	Safety Equipment
☐	First Aid Kit
☐	Cellular Telephone
☐	Gate Keys
☐	Hip Waders
☐	Plastic Trash Bags
☐	Sealable Plastic Bags
☐	Grab Pole
☐	Clean Secondary Container(s)
☐	Field Measurement Equipment
☐	New Powder-Free Nitrile Gloves
☐	Writing Utensils
☐	Stop Watch
☐	Camera
☐	Blank Water

C-2.1.1 Bottle Order/ Preparation

Sample container orders will be placed with the appropriate analytical laboratory at least two weeks prior to each sampling event. Containers will be ordered for all water samples, including quality control samples, as well as extra containers in case the need arises for intermediate containers or a replacement. The containers must be the proper type and size and contain preservative as appropriate for the specified laboratory analytical methods. **Table C-9** presents the proper container type, volume, and immediate processing and storage needs. The field crew must inventory sample containers upon receipt from the laboratory to ensure that adequate containers have been provided to meet analytical requirements for each monitoring event. After each event, any bottles used to collect water samples will be cleaned by the laboratory and either picked up by or shipped to the field crew.

C-2.1.2 Container Labeling and Sample Identification Scheme

All samples will be identified with a unique identification code to ensure that results are properly reported and interpreted. Samples will be identified such that the site, sampling location, matrix, sampling equipment and sample type (i.e., environmental sample or QC sample) can be distinguished by a data reviewer or user. Sample identification codes will consist of a site identification code, a matrix code, and a unique sample identification code. The format for sample identification codes is USGR- ###.# - AAAA - XXX, where:

- USGR indicates that the sample was collected as part of the USGR CIMP.
- ###- identifies the sequentially numbered monitoring event, and the # is an optional indicator for re-samples collected for the same event. Sample events are numbered from 001 to 999 and will not be repeated.
- AAAA indicates the unique site ID for each site.
- XXX identifies the sample number unique to a sample bottle collected for a single event. Sample bottles are numbered sequentially from 001 to 999 and will not be repeated within a single event.

Custom bottle labels should be produced using blank waterproof labels and labeling software. This approach will allow the site and analytical constituent information to be entered in advance and printed as needed prior to each monitoring event. Labels will be placed on the appropriate bottles in a dry environment; applying labels to wet sample bottles should be avoided. Labels should be placed on sides of bottles rather than on bottle caps. All sample containers will be pre-labeled before each sampling event to the extent practicable. Pre-labeling sample containers simplifies field activities, leaving only sample collection time and date and field crew initials to be filled out in the field. Labels should include the following information:

Program Name	Date	Analytical Requirements
Station ID	Collection Time	Preservative Requirements
Sample ID	Sampling Personnel	Analytical Laboratory

C-2.1.3 Field Meter Calibration

Calibration of field measurement equipment is performed as described in the owner's manuals for each individual instrument. Each individual field crew will be responsible for calibrating their field measurement equipment. Field monitoring equipment must meet the requirements outlined in **Table D-6** and be calibrated before field events based on manufacturer guidance, but at a minimum prior to each event. **Table C-13** outlines the typical field instrument calibration procedures for each piece of equipment requiring calibration. Each calibration will be documented on each event's calibration log sheet.

If calibration results do not meet manufacturer specifications, the field crew should first try to recalibrate using fresh aliquots of calibration solution. If recalibration is unsuccessful, new calibration solution should be used and/or maintenance should be performed. Each attempt should be recorded on the equipment calibration log. If the calibration results cannot meet manufacturer's specifications, the field crew should use a spare field measuring device that can

be successfully calibrated. If a spare field measuring device that can be successfully calibrated is unavailable, field crews shall note the use of unsuccessfully calibrated equipment on each appropriate field log sheet. Additionally, the USGR EWMP Group should be notified.

Calibration should be verified using at least one calibration fluid within the expected range of field measurements, both immediately following calibration and at the end of each monitoring day. Individual parameters should be recalibrated if the field meters do not measure a calibration fluid within the range of accuracy presented in **Table D-6**. Calibration verification documentation will be retained in the event's calibration verification log (presented in **Appendix 1**).

Table C-13.
Calibration of Field Measurement Equipment

Equipment / Instrument	Calibration and Verification Description	Frequency of Calibration	Frequency of Calibration Verification	Responsible Party
pH Probe	Calibration for pH measurement is accomplished using standard buffer solutions. Analysis of a mid-range buffer will be performed to verify successful calibration.	Day prior to 1st day or 1st day of sampling event	After calibration and at the end of each sampling day	Individual Sampling Crews
Temperature	Temperature calibration is factory-set and requires no subsequent calibration.			
Dissolved Oxygen Probe	Calibration for dissolved oxygen measurements is accomplished using a water saturated air environment. Dissolved oxygen (DO) measurement of water-saturated air will be performed and compared to a standard table of DO concentrations in water as a function of temperature and barometric pressure to verify successful calibration.			
Conductivity	Conductivity calibration will follow manufacturer's specifications. A mid-range conductivity standard will be analyzed to verify successful calibration.			
Turbidity	Turbidity calibration will follow manufacturer's specifications. A mid-range turbidity standard will be analyzed to verify successful calibration.			

C-2.1.4 Weather Conditions

Monitoring will occur during dry and wet conditions. Wet weather conditions for triggering storm events will be defined as a 70 percent probable forecast of greater than 0.25 inches of precipitation of rain where the preceding 72 hours of dry weather has less than 0.1 inches of rain. To qualify the event as wet weather, the receiving water flow would need to be measured greater than 20% over the base flow. Dry weather is defined in the MRP as when the flow of the

receiving water body is less than 20 percent greater than the base flow and occurring more than three days after a rain event of 0.1 inches or greater within the watershed.

Note that if rainfall begins after dry weather monitoring has been initiated, then dry weather monitoring will be suspended and continued on a subsequent day when weather conditions meet the dry weather conditions. Generally, grab samples will be collected during dry weather and composite samples will be collected during wet weather. Grab samples will be used for dry weather sampling events because the composition of the receiving water will change less over time; and thus, the grab sample can sufficiently characterize the receiving water. Grab samples during dry weather are consistent with similar programs within the region. However, to sufficiently characterize the receiving water during wet weather, composite samples will generally be used for wet weather sampling events. Grab samples may be utilized to collect wet weather sampling in certain situations, which may include, but are not limited to, when the constituent of interest requires the use of grab samples (e.g., *E. coli* and oil and grease), situations where it is unsafe to collect composite samples, or to perform investigative monitoring where composite sampling or installation of an automatic sample compositor (autosampler) may not be warranted.

The MRP includes specific criteria for the time of monitoring events. With the exception of bacteria and metals monitoring, most constituents will be monitored during two dry weather monitoring events. For dry weather toxicity monitoring, sampling must take place during the historically driest month. As a result, the dry weather monitoring event that includes toxicity monitoring will be conducted in July. The second dry weather monitoring event will take place during January unless sampling during another month is deemed to be preferable.

The first significant rain event of the storm year (first flush) will be monitored. The targeted storm events for wet weather sampling will be selected based on a reasonable probability that the events will result in substantially increased flows in the San Gabriel River over at least 12 hours. Sufficient precipitation is needed to produce runoff and increase flow. The decision to sample a storm event will be made in consultation with weather forecasting information services after a quantitative precipitation forecast (QPF) has been determined. All efforts will be made to collect wet weather samples from all sites during a single targeted storm event. However, safety or other factors may make it infeasible to collect samples from a given storm event. For example, storm events that will require field crews to collect wet weather samples during holidays and/or weekends may not be sampled due to sample collection or laboratory staffing constraints.

For a storm to be tracked, the first flush event will have a predicted rainfall of at least 0.25 inches with at least a 70 percent probability of rainfall 24 hours prior to the forecasted time of initial rainfall. Subsequent storm events must meet the tracking requirements, flow objectives, as well as be separated by a minimum of three days of dry weather. Antecedent conditions will be based on the LA County Department of Public Works (LACDPW) rain gage listed in **Table C-14**. The rain gage has been used to define wet and dry weather during TMDL monitoring in the watershed since 2009. Data can be obtained at http://dpw.lacounty.gov/wrd/Precip/index.cfm by clicking the 'See Data' link in the "Near Real-Time Precipitation Map" section. The web page displays a map showing real-time rainfall totals (in inches) for different rain gages. Although the default precipitation period is 24 hours, the user can view rainfall totals over different durations. Data from the rain gages is updated every 10 minutes.

Table C-14.
Real-Time Rain Gage Used to Define Weather Conditions for CIMP Monitoring[1]

Rainfall Gage	Operator	Gage Type	Latitude	Longitude
University of Southern California (USC) (375)	Los Angeles County Department of Public Works	Manually Observed Non-Mechanical Rain Gage	34.0226	-118.2908

7. Information for the gage can be found at http://dpw.lacounty.gov/wrd/Precip/alertlist.cfm.

The targeted storm events for wet weather sampling will be selected based on a reasonable probability that the events will result in substantially increased flows in the San Gabriel River for at least 12 hours. Sufficient precipitation is needed to produce runoff and increase flow. The decision to sample a storm event will be made in consultation with weather forecasting information services after a quantitative precipitation forecast (QPF) has been determined. All efforts will be made to collect wet weather samples from all sites during a single targeted storm event. However, safety or other factors may make it infeasible to collect samples from the same storm event.

For the purpose of triggering wet weather sampling preparation, field staff can estimate that any rainfall prediction for downtown Los Angeles of 0.1-0.5 inches in a 6- to 12-hour period would be sufficient to mobilize for wet weather sampling, or by utilizing the analyses of the CMP staff. The sampling crew should prepare to depart at the forecasted time of initial rainfall. The first of the four manual composite samples should be targeted for collection within 2 hours of local rainfall.

Publicly available meteorological forecasting systems are suggested for identifying and anticipating storm event sampling for the Study. The sampling decision protocol begins when the sampling crew recognizes an approaching storm, through weekly monitoring of forecasts. The National Weather Service's weather forecast for downtown Los Angeles can be accessed on-line at:

http://www.wrh.noaa.gov/lox/ then click on "Los Angeles" on the area map

From the forecast page, the link to "Quantitative Precipitation Forecast" provides forecasted precipitation in inches for the next 24 hours, in 3-hour increments for the first 12 hours and in 6-hour increments for the last 12 hours.

C-2.1.5 Flow Gage Measurements

USGS flow gages along the San Gabriel River will be used to determine whether the receiving water flow has exceeded the 20 percent threshold. Flows above the 20 percent threshold will classify the receiving water body as being in "wet" conditions and flows that are less than the 20 percent threshold will be "dry" conditions. In addition to the USGS rain gages, field crews will monitor flow at each of the sampling sties. **Table C-15** presents the location of flow gages located on the San Gabriel River.

Table C-15.
LA River and Tributary Flow Gages

Waterbody	Water Body Type	Gage Location	Gage ID
San Gabriel River	Main Stem	San Gabriel River above Whittier Narrows Dam	SGRW

San Gabriel River	Main Stem	San Gabriel River Below Santa Fe Dam	SGRS

C-2.2 Sample Handling

Proper sampling handling ensures the samples will comply with the monitoring methods and analytical hold time and provides traceable documentation throughout the history of the sample.

C-2.2.1 Documentation Procedures

The USGR EWMP Group is responsible for ensuring that each field sampling team adheres to proper custody and documentation procedures. Field log sheets documenting sample collection and other monitoring activities for each site will be bound in a separate master logbook for each event. Field personnel have the following responsibilities:

1. Keep an accurate written record of sample collection activities on the field log sheets.
2. Ensure that all field log sheet entries are legible and contain accurate and inclusive documentation of all field activities.
3. Note errors or changes using a single line to cross out the entry and date and initial the change.
4. Ensure that a label is affixed to each sample collected and that the labels uniquely identify samples with a sample ID, site ID, date and time of sample collection and the sampling crew initials.
5. Complete the chain of custody forms accurately and legibly.

C-2.2.2 Field Documentation/ Field Log

Field crews will keep a field log book for each sampling event that contains a calibration log sheet, a field log sheet for each site, and appropriate contact information. The following items should be recorded on the field log sheet for each sampling event:

- Monitoring station location (Station ID);
- Date and time(s) of sample collection;
- Name(s) of sampling personnel;
- Sample collection depth;
- Sample ID numbers and unique IDs for any replicate or blank samples;
- QC sample type (if appropriate);
- Requested analyses (specific parameters or method references);
- Sample type (e.g., grab or composite);
- The results of field measurements (e.g., flow, temperature, dissolved oxygen, pH, conductivity, turbidity) and the time that measurements were made;
- Qualitative descriptions of relevant water conditions (e.g., water color, flow level, clarity) or weather (e.g., wind, rain) at the time of sample collection;
- Trash observations (presence/absence);
- Observations of recreational activities;
- A description of any unusual occurrences associated with the sampling event, particularly those that may affect sample or data quality.

The field log will be scanned into a PDF within one week of the conclusion of each sampling event. Alternatively, all measurements could be collected on an electronic device such as laptop or tablet computer. **Appendix 1** contains an example of the field log sheet.

C-2.2.3 Sample Handling and Shipment

The field crews will have custody of samples during each monitoring event. Chain-of-custody (COC) forms will accompany all samples during shipment to contract laboratories to identify the shipment contents. All water quality samples will be transported to the analytical laboratory by the field crew or by courier. The original COC form will accompany the shipment, and a signed copy of the COC form will be sent, typically via fax, by the laboratory to the field crew to be retained in the project file.

While in the field, samples will be stored on ice in an insulated container. Samples that must be shipped to the laboratory must be examined to ensure that container lids are tight and placed on ice to maintain the appropriate temperature. The ice packed with samples must be approximately 2 inches deep at the top and bottom of the cooler, and must contact each sample to maintain temperature. The original COC form(s) will be double-bagged in re-sealable plastic bags and either taped to the outside of the cooler or to the inside lid. Samples must be shipped to the contract laboratory according to transportation standards. The method(s) of shipment, courier name, and other pertinent information should be entered in the "Received By" or "Remarks" section of the COC form.

Coolers must be sealed with packing tape before shipping, unless transported by field or lab personnel, and must not leak. It is assumed that samples in tape-sealed ice chests are secure whether being transported by common carrier or by commercial package delivery. The laboratory's sample receiving department will examine the shipment of samples for correct documentation, proper preservation and compliance with holding times. The following procedures are used to prevent bottle breakage and cross-contamination:

- Bubble wrap or foam pouches are used to keep glass bottles from contacting one another to prevent breakage, re-sealable bags will be used if available.
- All samples are transported inside hard plastic coolers or other contamination-free shipping containers.
- If arrangements are not made in advance, the laboratory's sample receiving personnel must be notified prior to sample shipment.

All samples remaining after successful completion of analyses will be disposed of properly. It is the responsibility of the personnel of each analytical laboratory to ensure that all applicable regulations are followed in the disposal of samples or related chemicals. Samples will be stored and transported as noted in **Table C-9**. Samples not analyzed locally will be sent on the same day that the sample collection process is completed, if possible. Samples will be delivered to the appropriate laboratory as will be indicated in **Table C-16**. Note that due to procurement procedures, the analytical laboratories have not been identified at this time. Information for all laboratories will be added to this table following their selection and upon CIMP update. Appropriate contacts will be listed along with lab certification information in **Table C-16**.

Table C-16.
Information on Laboratories Conducting Analysis for the USGR CIMP

Laboratory[1]	General Category of Analysis	Shipping Method	Contact	Phone	Address	Lab Certification No. & Expiration Date[2]

1. Information for all laboratories will be added to this table following their selection and upon CIMP update.
2. Lab certifications are renewed on an annual basis.

C-2.2.4 Chain-of Custody Forms

Sample custody procedures provide a mechanism for documenting information related to sample collection and handling. Sample custody must be traceable from the time of sample collection until results are reported. A sample is considered under custody if:

- It is in actual possession.
- It is in view after in physical possession.
- It is placed in a secure area (accessible by or under the scrutiny of authorized personnel only after in possession).

A COC form must be completed after sample collection and prior to sample shipment or release. The COC form, sample labels, and field documentation will be cross-checked to verify sample identification, type of analyses, number of containers, sample volume, preservatives, and type of containers. A complete COC form is to accompany the transfer of samples to the analyzing laboratory. A typical COC form is presented in **Appendix 1**.

C-2.2.5 Laboratory Custody Procedures

Laboratories will follow sample custody procedures as outlined in the laboratory's QA Manual. A copy of each contract laboratory's QA Manual should be available at the laboratory upon request. Laboratories shall maintain custody logs sufficient to track each sample submitted and to analyze or preserve each sample within specified holding times. The following sample control activities must be conducted at the laboratory:

- Initial sample login and verification of samples received with the COC form;
- Document any discrepancies noted during login on the COC;
- Initiate internal laboratory custody procedures;
- Verify sample preservation (e.g., temperature);
- Notify the USGR EWMP Group if any problems or discrepancies are identified; and,
- Perform proper sample storage protocols, including daily refrigerator temperature monitoring and sample security.

Laboratories shall maintain records to document that the above procedures are followed. Once samples have been analyzed, samples will be stored at the laboratory for at least 30 days. After this period, samples may be disposed of properly.

C-2.3 Field Protocols

Briefly, the key aspects of quality control associated with field protocols for sample collection for eventual chemical and toxicological analyses are as follows:

1. Field personnel will be thoroughly trained in the proper use of sample collection gear and will be able to distinguish acceptable versus unacceptable water samples in accordance with pre-established criteria.
2. Field personnel will be thoroughly trained to recognize and avoid potential sources of sample contamination (e.g., engine exhaust, ice used for cooling).
3. Sampling gear and utensils which come in direct contact with the sample will be made of non-contaminating materials (e.g., borosilicate glass, high-quality stainless steel and/or Teflon™, according to protocol) and will be thoroughly cleaned between sampling stations according to appropriate cleaning protocol (rinsing thoroughly at minimum).
4. Sample containers will be of the recommended type and will be free of contaminants (i.e., pre-cleaned).
5. Conditions for sample collection, preservation, and holding times will be followed.

Field crews will be comprised of two persons per crew, minimum. For safety reasons, sampling will occur during daylight hours, when possible. Sampling on weekends and holidays will also be avoided. Other constraints on sampling events include, but are not limited to, lab closures and toxicity testing organism availability. Sampling events should proceed in the following manner:

1. Before leaving the sampling crew base of operations, confirm number and type of sample containers as well as the complete equipment list.
2. Proceed to the first sampling site.
3. Fill-out the general information on the field log sheet.
4. Collect the environmental and quality assurance/quality control (QA/QC) samples indicated on the event summary sheet and store samples appropriately. Using the field log sheet, confirm that all appropriate containers were filled.
5. Collect field measurements and observations, and record these on the field log sheet.
6. Repeat the procedures in steps 3, 4, and 5 for each of the remaining sampling sites.
7. Complete the COC forms using the information on the field log sheets.
8. After sample collection is completed, deliver and/or ship samples to appropriate laboratory.

C-2.4 Sample collection

All samples will be collected in a manner appropriate for the specific analytical methods to be used. The proper sampling techniques, outlined in this section, will ensure that the collected samples are representative of the waterbodies sampled. Should field crews feel that it is unsafe to collect samples for any reason, the field crews **SHOULD NOT COLLECT** a sample and note on the field log that the sample was not collected, why the sample was not collected, and provide photo documentation, if feasible.

C-2.4.1 Overview of Sampling Techniques

As described below, the method used to collect water samples is dependent on the depth, flow, and sampling location (receiving water, outfall). Nonetheless, in all cases:

1. Throughout each sample collection event, the sampler should exercise aseptic techniques to avoid any contamination (i.e., do not touch the inner surfaces or lip edges of the sample bottle or cap).
2. The sampler should use clean, powder-free, nitrile gloves for each site to prevent contamination.
3. When collecting the sample, the sampler should not breathe, sneeze, or cough in the direction of the container.
4. Gloves should be changed if they are soiled, or if the potential for cross-contamination exists from handling sampling materials or samples.
5. While the sample is collected, the bottle lid shall not be placed on the ground.
6. The sampler should not eat or drink during sample collection.
7. The sampler should not smoke during sample collection.
8. Each person on the field crew should wear clean clothing that is free of dirt, grease, or other substances that could contaminate the sampling apparatus or sample bottles.
9. Sampling should not occur near a running vehicle. Vehicles should not be parked within the immediate sample collection area, even non-running vehicles.
10. When the sample is collected, ample air space should be left in the bottle to facilitate mixing by shaking for lab analysis, unless otherwise required by the method.
11. After the sample is collected and the cap is tightly screwed back on the bottle, the time of sampling should be recorded on the field log sheet.
12. Any QA/QC samples that are collected should be also be noted on the field log sheet and labeled according the convention described in **Section C-1**
13. Samples should be stored as previously described.
14. COC forms should be filled out as described in **Section C-2.2.4** of this Attachment and delivered to the appropriate laboratory as soon as feasible to ensure hold times are met.

To prevent contamination of samples, clean metal sampling techniques using USEPA protocols outlined in USEPA Method 1669[1] will be used throughout all phases of the water sample collection. The protocol for clean metal sampling, based on USEPA Method 1669, is summarized below:

1. Samples are collected in rigorously pre-cleaned sample bottles with any tubing specially processed to clean sampling standards.
2. At least two persons, wearing clean, powder-free nitrile or latex gloves at all times, are required on a sampling crew.
3. One person, referred to as "dirty hands", opens only the outer bag of all double-bagged sample bottles.
4. The other person, referred to as "clean hands", reaches into the outer bag, opens the inner bag and removes the clean sample bottle.
5. Clean hands rinses the bottle at least two times by submerging the bottle, removing the bottle lid, filling the bottle approximately one-third full, replacing the bottle lid, gently shaking and then emptying the bottle. Clean hands then collects the sample by submerging the bottle, removing the lid, filling the bottle and replacing the bottle cap

1 USEPA. April 1995. *Method 1669: Sampling Ambient Water for Trace Metals at EPA Water Quality Criteria Levels.* EPA 821-R-95-034.

while the bottle is still submerged.

6. After the sample is collected, the sample bottle is double-bagged in the opposite order from which it was removed from the same double-bagging.
7. Clean, powder-free gloves are changed whenever something not known to be clean has been touched.

C-2.4.2 Field Measurements and Observations

Field measurements will be collected and observations made at each sampling site after a sample is collected. Field measurements will include the parameters identified in the CIMP for which a laboratory analysis is not being conducted. Field monitoring equipment must meet the requirements outlined in **Table C-5**. Field measurements for sediment samples shall be collected from within one meter of the sediment. All field measurement results and field observations will be recorded on a field log sheet similar to the one presented in **Appendix 1** and as described in **Section C-2.2.4** of this Attachment.

Measurements (except for flow) will be collected at approximately mid-stream, mid-depth at the location of greatest flow (if feasible) with a Hydrolab DS4 multi-probe meter, or comparable instrument(s). If at any time the collection of field measurements by wading appears to be unsafe, field crews will not attempt to collect mid-stream, mid-depth measurements. Rather, field measurements will be made either directly from a stable, unobstructed area at the channel edge, or by using a telescoping pole and intermediate container to obtain a sample for field measurements and for filling sample containers. For situations where flows are not sufficiently deep to submerge the probes, an intermediate container will be utilized. The location of field measurements will be documented on the field log sheet.

Flow measurements will be collected as outlined in the following subsections at freshwater receiving water and non-stormwater outfall monitoring sites. Regardless of measurement technique used, if a staff gage is present the gage height will be noted. Field crews may not be able to measure flow at several sites during wet weather because of inaccessibility of the site. If this is the case, site inaccessibility will be documented on the field log sheet.

The field sampling crew has the primary responsibility for responding to failures in the sampling or measurement systems. Deviations from established monitoring protocols will be documented in the comment section of the field log sheet and noted in the post event summaries. If monitoring equipment fails, monitoring personnel will report the problem in the notes section of the field log sheet and will not record data values for the variables in question. Broken equipment will be replaced or repaired prior to the next field use. Data collected using faulty equipment will not be used.

C-2.4.2.1 Shallow Sheet Flow Measurements

If the depth of flow does not allow for the measurement of flow with a velocity meter (<0.1-foot) a "float" will be used to measure the velocity of the flowing water. The width, depth, velocity, cross section, and corresponding flow rate will be estimated as follows:

- **Sheet flow width:** The width (W) of the flowing water (not the entire part of the channel that is damp) is measured at the "top", "middle", and "bottom" of a marked-off distance – generally 10 feet (e.g., for a 10-foot marked-off section, W_{Top} is measured at 0-feet, W_{Mid}

is measured at 5 feet, and W_{Bottom} is measured at 10 feet).

- **Sheet flow depth:** The depth of the sheet flow is measured at the top, middle, and bottom of the marked-off distance. Specifically, the depth (D) of the sheet flow is measured at 25%, 50%, and 75% of the flowing width (e.g., $D_{50\%}^{Mid}$ is the depth of the water at middle of the section in the middle of the sheet flow) at each of the width measurement locations. It is assumed that the depth at the edge of the sheet flow (i.e., at 0% and 100% of the flowing width) is zero.
- **Representative cross-section:** Based on the collected depth and width measurements, the representative cross-sectional area across the marked-off sheet flow is approximated as follows:

$$\begin{aligned}&\text{Representative Cross Section} = \\ &Average\ \{[\frac{W_{Top}}{4}\times(\frac{D_{25\%}^{Top}}{2}+\frac{\left(D_{50\%}^{Top}+D_{25\%}^{Top}\right)}{2}+\frac{\left(D_{75\%}^{Top}+D_{50\%}^{Top}\right)}{2}+\frac{D_{75\%}^{Top}}{2})],\\ &[\frac{W_{Mid}}{4}\times(\frac{D_{25\%}^{Mid}}{2}+\frac{\left(D_{50\%}^{Mid}+D_{25\%}^{Mid}\right)}{2}+\frac{\left(D_{75\%}^{Mid}+D_{50\%}^{Mid}\right)}{2}+\frac{D_{75\%}^{Mid}}{2})],\\ &[\frac{W_{Bottom}}{4}\times(\frac{D_{25\%}^{Bottom}}{2}+\frac{\left(D_{50\%}^{Bottom}+D_{25\%}^{Bottom}\right)}{2}+\frac{\left(D_{75\%}^{Bottom}+D_{50\%}^{Bottom}\right)}{2}+\frac{D_{75\%}^{Bottom}}{2})]\}\end{aligned}$$

- **Sheet flow velocity:** Velocity is calculated based on the amount of time it took a float to travel the marked-off distance (typically 10-feet or more). Floats are normally pieces of leaves, litter, or floatables (suds, etc.). The time it takes the float to travel the marked-off distance is measured at least three times. Then average velocity is calculated as follows:

$$Average\ Surface\ Velocity = \frac{Distance\ Marked\ off\ for\ Float\ Measurement}{Average\ Time\ for\ Float\ to\ Travel\ Marked\ off\ Distance}$$

- **Flow Rate calculation:** For sheet flows, based on the above measurements/estimates, the estimated flow rate, Q, is calculated by:

$$Q = f\ x\ (Representative\ Cross\ Section)\ x\ (Average\ Surface\ Velocity)$$

The coefficient f is used to account for friction effects of the channel bottom. That is, the float travels on the water surface, which is the most rapidly-traveling portion of the water column. The average velocity, not the surface velocity, determines the flow rate, and thus f is used to "convert" surface velocity to average velocity. In general, the value of f typically ranges from 0.60 – 0.90 (USGS 1982). Based on flow rate measurements taken during the LA River Bacteria Source Identification Study (CREST 2008) a value of 0.75 will be used for f in the equation.

However, the soft-bottom channels may require adjustment of the factor f, due to different hydraulic friction.

C-2.4.2.2 Free-flowing Outfalls

Some storm drain outfalls are free-flowing, meaning the runoff falls from an elevated outfall into the channel, which allows for collection of the entire flowing stream of water into a container of known volume (e.g., graduated bucket or graduated Ziploc bag). The time it takes to fill the known volume is measured using a stopwatch, and recorded on the field log. The time it takes to fill the container will be measured three times and averaged to ensure that the calculated discharge is representative. In some cases, a small portion of the runoff may flow around or under the container. For each measurement, "percent capture", or the proportion of flow estimated to enter the bucket, will be recorded. For free-flowing outfalls, the estimated flow rate, Q, is calculated by:

$$Q = Average\left[\frac{Filled\ container\ Volume}{(Time\ to\ Fill\ Container)\times(Estimated\ Capture)}\right]$$

Based on measurements of free-flowing outfalls during the LA River Bacteria Source Identification Study (CREST, 2008), estimated capture typically ranges from 0.75 – 1.0.

C-2.4.3 Sampling Techniques for the Collection of Water

The following subsections provide details on the various techniques that can be utilized to collect water quality samples. Should field crews feel that it is unsafe to collect samples for any reason, the field crews **SHOULD NOT COLLECT** a sample and note on the field log that the sample was not collected, why the sample was not collected, and provide photo documentation, if feasible.

C-2.4.3.1 Direct Submersion: Hand Technique

Where practical, all grab samples will be collected by direct submersion at mid-stream, mid-depth using the following procedures:

1. Follow the standard sampling procedures described in **Section C-2.4.1** of this Attachment.
2. Remove the lid, submerge the container to mid-stream/mid-depth, let the container fill and secure the lid. In the case of mercury samples, remove the lid underwater to reduce the potential for contamination from the air.
3. Place the sample on ice.
4. Collect the remaining samples including quality control samples, if required, using the same protocols described above.
5. Follow the sample handling procedures described in **Section C-2.2** of this Attachment.

C-2.4.3.2 Intermediate Container Technique

Samples may be collected with the use of a clean intermediate container, if necessary, following the steps listed below. An intermediate container may include a container that is similar in composition to the sample container, a pre-cleaned pitcher made of the same material as the sample container, or a Ziploc bag. An intermediate container should not be reused at a different site without appropriate cleaning.

1. Follow the standard sampling procedures described in **Section C-2.4.1** of this Attachment.
2. Submerge the intermediate container to mid-stream/mid-depth (if possible), let the container fill, and quickly transfer the sample into the individual sample container(s) and secure the lid(s).
3. Place the sample(s) on ice.
4. Collect remaining samples including quality control samples, if required, using the same protocols described above.
5. Follow the sample handling procedures described in **Section C-2.2** of this Attachment.

Some flows may be too shallow to fill a container without using an intermediate container. When collecting samples from shallow sheet flows it is very important to not scoop up algae, sediment, or other particulate matter on the bottom because such debris is not representative of flowing water. To prevent scooping up such debris either: (1) find a spot where the bottom is relatively clean and allow the sterile intermediate container to fill without scooping; or (2) lay a clean sterile Ziploc® bag on the bottom and collect the water sample from on top of the bag. A fresh Ziploc® bag must be used at each site.

C-2.4.3.3 Pumping

Samples may be collected with the use of a peristaltic pump and specially cleaned tubing following the steps listed below. Sample tubing should not be reused at a different site without appropriate cleaning.

1. Follow the standard sampling procedures described in **Section C-2.4.1** of this Attachment.
2. Attach pre-cleaned tubing into the pump, exercising caution to avoid allowing tubing ends to touch any surface known not to be clean. A separate length of clean tubing must be used at each sample location for which the pump is used.
3. Place one end of the tubing below the surface of the water. To the extent possible, avoid placing the tubing near the bottom so that settled solids are not pumped into the sample container.
4. Hold the other end of the tubing over the opening of the sample container, exercising care not to touch the tubing to the sample container.
5. Pump the necessary sample volume into the sample container and secure the lid.
6. Place the sample on ice.
7. Collect remaining samples including quality control samples, if required, using the same protocols described above.
8. Follow the sample handling procedures described in **Section C-2.2** of this Attachment.

C-2.4.3.4 Autosamplers

Autosamplers are used to characterize the entire flow of a storm in one analysis. They can be programmed to take aliquots at either time- or flow-based specified intervals. Before beginning setup in the field, it is recommended to read the manufacturer's instructions. The general steps to set up the autosampler are described below:

1. Connect power source to autosampler computer. This can be in the form of a battery or a power cable.
2. Install pre-cleaned tubing into the pump. Clean tubing will be used at each site and for each event, in order to minimize contamination.
3. Attach strainer to intake end of the tubing and install in sampling channel.
4. If running flow based composite samples; install flow sensor in sampling channel and connect it to the automatic compositor.
5. Label and install composite bottle(s). If sampler is not refrigerated, then add enough ice to the composite bottle chamber to keep sample cold for the duration of sampling or until such time as ice can be refreshed. Make sure not to contaminate the inside of the composite bottle with any of the ice.
6. Program the autosampler as per the manufacturer's instructions and make sure the autosampler is powered and running before leaving the site.

After the sample collection is completed the following steps must be taken to ensure proper sample handling:

1. Upon returning to the site, check the status of the autosampler and record any errors or missed samples. Note on the field log the time of the last sample, as this will be used for filling out the COCs.
2. Remove the composite bottle and store on ice. If dissolved metals are required, then begin the sample filtration process outlined in the following subsection, within 15 minutes of the last composite sample, unless compositing must occur at another location, in which case the filtration process should occur as soon as possible upon sample compositing.
3. Power down autosampler and leave sampling site.
4. The composite sample will need to be split into the separate analysis bottles either before being shipped to the laboratory or at the laboratory. This is best done in a clean and weatherproof environment, using clean sampling technique.

C-2.4.3.5 Dissolved Metals Field Filtration

When feasible, samples for dissolved metals will be filtered in the field. The following describes an appropriate dissolved field filtration method. An alternative an equivalent method may be utilized, if necessary. A 50mL plastic syringe with a 0.45µm filter attached will be used to collect and filter the dissolved metals sample in the field. The apparatus will either come certified pre-cleaned from the manufacturer and confirmed by the analytical laboratory or be pre-cleaned by and confirmed by the analytical laboratory at least once per year. The apparatus will be double bagged in Ziploc plastic bags.

To collect the sample for dissolved metals, first collect the total metals sample using clean sampling techniques. The dissolved sample will be taken from this container. Immediately prior to collecting the dissolved sample, shake the total metals sample. To collect the dissolved metals sample using clean sampling techniques, remove the syringe from the bag and place the tip of the syringe into the bottle containing the total metals sample and draw up 50 mL of sample into the syringe. Next, remove the filter from the zip-lock bag and screw it tightly into the tip of the syringe. Then put the tip of the syringe with the filter into the clean dissolved metals container and push the sample through the filter taking care not to touch the inside surface of the sample

container with the apparatus. The sample volume needs to be a minimum of 20 mL. If the filter becomes clogged prior to generating 20 mL of sample, remove and dispose of the used filter and replace it with a new clean filter (using the clean sampling techniques). Continue to filter the sample. When 20 mL has been collected, cap the sample bottle tightly and store on ice for delivery to the laboratory.

C-2.4.4 Receiving Water Sample Collection

A grab sample is a discrete individual sample. A composite sample is a mixture of samples collected over a period of time either as time or flow weighted. A time-weighted composite is created by mixing multiple aliquots collected at specified time intervals. A flow-weighted composite is created by mixing multiple aliquots collected at equal time intervals but where the volume of the aliquot is based on flow rate. Generally, grab samples will be collected during dry weather and composite samples will be collected during wet weather. Should field crews feel that it is unsafe to collect samples for any reason, the field crews **SHOULD NOT COLLECT** a sample and note on the field log that the sample was not collected, why the sample was not collected, and provide photo documentation, if feasible.

Grab samples will be used for dry weather sampling events, because the composition of the receiving water will change less over time; and thus, the grab sample can sufficiently characterize the receiving water. Grab samples will be collected as described in **Section C-2.4.1** of this Attachment. Monitoring site configuration and consideration of safety will dictate grab sample collection technique. The potential exists for monitoring sites to lack discernable flow. Except in the case of lakes, the lack of discernable flow may generate unrepresentative data. To address the potential confounding interference that can occur under such conditions, sites sampled should be assessed for the following conditions and sampled or not sampled accordingly:

- Pools of water with no flow or no visible connection to another surface water body should not be sampled. The field log should be completed for non-water quality data (including date and time of visit) and the site condition should be photo-documented.
- Flowing water (i.e., based on visual observations, flow measurements, and a photo-documented assessment of conditions immediately upstream and downstream of the sampling site) site should be sampled.

Wet weather samples will generally be collected as either time- or flow-weighted composites. Grab samples may be utilized to collect wet weather sampling in certain situations, which may include, but are not limited to, situations where it is unsafe to collect composite samples or to perform investigative monitoring where composite sampling or installation of an autosampler may not be warranted.

It is the combined responsibility of all members of the sampling crew to determine if the performance requirements of the specific sampling method have been met, and to collect additional samples if required. If the performance requirements outlined above or documented in sampling protocols are not met, the sample will be re-collected. If contamination of the sample container is suspected, a fresh sample container will be used. The USGR EWMP Group will be contacted if at any time the sampling crew has questions about procedures or issues based on site-specific conditions.

C-2.4.5 Stormwater Outfall Sample Collection

Stormwater outfalls will be monitored with similar methods to stormwater receiving water monitoring as discussed in **Section C-2.4.4** of this Attachment. Generally, autosamplers will be used to composite samples, with exceptions, for example, where the analytical method specifies collection via the grab method. Sampling will not be undertaken if the outfalls are not flowing or if conditions exist where the receiving water is back-flowing into the outfall. It is the combined responsibility of all members of the sampling crew to determine if the performance requirements of the specific sampling method have been met, and to collect additional samples if required. If the performance requirements outlined above or documented in sampling protocols are not met, the sample will be re-collected. If contamination of the sample container is suspected, a fresh sample container will be used. The USGR EWMP Group will be contacted if at any time the sampling crew has questions about procedures or issues based on site-specific conditions.

C-2.4.6 Non-Stormwater Outfall Screening Surveys and Sample Collection

The outfall screening process is designed to identify outfalls that have significant non-stormwater (NSW) discharges. The collection of water quality data, where flow abatement efforts are unsuccessful, will support characterization of dry weather loading. Dry weather outfall samples will be collected with the grab method, to be consistent with receiving water monitoring. As the identified NSW outfalls are deemed significant, the flow and source of flow, will be more consistent in nature than NSW outfalls discharging sporadically. To maintain comparability between NSW receiving water quality measurements and outfall, both sets of data will be collected as grabs.

C-2.4.6.1 Preparation for Outfall Surveys

Preparation for outfall surveys includes preparation of field equipment, placing bottle orders, and contacting the necessary personnel regarding site access and schedule. The following steps should be completed two weeks prior to each outfall survey:

1. Check weather reports and LACDPW rain gage to ensure that antecedent dry weather conditions are suitable.
2. Contact appropriate Flood Maintenance Division personnel from LACDPW to notify them of dates and times of any activities in flood control channels.
3. Contact laboratories to order bottles and to coordinate sample pick-ups.
4. Confirm scheduled sampling date with field crews.
5. Set-up sampling day itinerary including sample drop-offs and pick-ups.
6. Compile field equipment.
7. Prepare sample labels.
8. Prepare event summaries to indicate the type of field measurements, field observations, and samples to be taken at each of the outfalls.
9. Prepare COCs.
10. Charge the batteries of field tablets (if used).

C-2.4.6.2 Non-Stormwater Sample Collection

Water quality samples will be collected consistent with the dry weather requirements outlined in the receiving water monitoring section using the direct submersion, intermediate container, shallow sheet flow, or pumping methods described in **Section C-2.4.3** of this Attachment.

C-2.4.7 Stormborne Sediment Sampling

The Puddingstone Reservoir TMDLs and the Harbors Toxics TMDLs include requirements for the analysis of water quality samples to assess the contribution of certain organic pollutants associated with bulk sediment (**Table C-17**). The East San Gabriel Valley WMP Group will collect and analyze the stormwater outfall samples to Puddingstone Reservoir. The Lower San Gabriel River WMP Group will collect and analyze the samples for San Gabriel River and Coyote Creek near the confluence with the San Gabriel River Estuary. Both groups will share the analytical results with the USGR EWMP Group.

Table C-17.
Categories of Constituents for Assessing Sediment Concentrations in Water for the Puddingstone Reservoir and the Harbors Toxics TMDLs

General Category of Constituent	Harbors Toxics TMDLs	Puddingstone Reservoir TMDLs
Metals[1]	X	
DDTs[2]	X	X
Chlordanes[2]		X
Dieldrin		X
PCBs[2]	X	X
PAHs[2]	X	

1. Metals include copper, lead, silver, and zinc.
2. See **Table C-3** for a list of individual constituents in each category.

Most of the organochlorine (OC) pesticides and PCBs and many of the PAHs tend to strongly associate with sediment and organic material. These constituents commonly have octanol/water partition coefficients (log Kow) that are greater than six, elevated soil/water partition coefficients (log Kd) and elevated soil adsorption coefficients (log Koc). The lighter weight PAHs such as naphthalene, acenaphthene and acenaphthylene tend to be more soluble in water and volatile. Concentrations of OC pesticides, PCBs, and PAHs are often below or are very close to the limits of detection for conventional analytical methods used for analyzing water samples. Although collection and filtration of high volumes of stormwater will allow improved quantification of these constituents, it also introduces substantial potential for introduction of errors.

Use of filtration methods in combination with conventional analytical methods requires collection of extremely large volumes of stormwater and challenging filtration processes. Use of conventional analytical methods for analysis of the filtered sediment is then expected to require at least 5 grams of sediment (typically 10 grams is preferred by laboratories) for each of the groups of analytes (metals, OC pesticides, PCBs and PAHs) in order to achieve detection limits necessary to quantify loads. In addition, the direct impacts of filtering samples with high sediment content are not well understood. Efforts by the City of Los Angeles and Los Angeles County in the Ballona Creek and Marina del Rey watersheds, respectively, have demonstrated the challenges associated with collecting and analyzing suspended sediments. Assuming samples contain sediment at an average TSS concentration of 100 mg/L and that all sediment could be recovered, analyses might require as much as 50 liters for each test method (total of 200 liters). An ongoing special study is underway in Marina del Rey to evaluate various methods for capturing sufficient sediment to conduct analysis. In Ballona Creek, the City of Los Angeles has

been successful in collecting sufficient volumes of sediment over the course of a year to conduct the analysis. This allows for the quantification of annual loading; however, it does not allow for an evaluation of concentrations and loads under various storm conditions. Although use of lower sediment volumes may be possible, both detection limits and quality control measures might be impacted. In Ballona Creek, duplicate and quality control analysis have been limited to the available sediment, resulting in situations where either certain target constituents or quality control analysis are not completed.

An alternative approach for assessing the loads of the constituents of interest will be utilized in this CIMP to substantially reduce the amount of sample needing to be handled and potential for introduction of error. This approach will utilize High Resolution Mass Spectrometry (HRMS) to analyze for OC pesticides (USEPA 1699), PCBs (USEPA 1668) and PAHs (CARB). HRMS analyses are quantified by isotope dilution techniques. Analytical performance is measured by analysis of Ongoing Precision and Recovery (OPR) analyses and labeled compound recovery. Conventional methods for analyzing for metals of interest are sufficiently sensitive to assess concentrations on suspended sediments. During the first three years, analyses will be conducted on whole water samples. These test methods provide detection limits that are roughly 100 times more sensitive than conventional analytical methods. In addition, these extremely low detection limits can be achieved with as little as 3-6 liters of stormwater at a TSS of approximately 50 mg/L.

As with any low detection level method, clean sample techniques are of paramount importance. Field blanks are essential to ensure the sample collection mechanism do not introduce contamination.

Use of this approach is expected to greatly enhance the ability to consistently obtain appropriate samples for measuring and comparing loads of constituents of interest associated with each sampling event. This will assure that all key toxics can be quantified at levels suitable for estimation of mass loads.

For purposes of load calculations, it would be assumed that 100% of OC pesticides, PCBs and PAHs were associated with suspended solids. Separate analyses of TSS would be used to normalize the data. After three years (approximately four to six storm events) the data will be reevaluated to assess whether continued use of the HRMS approach remains to be beneficial. If deemed necessary, a modified approach will be evaluated for analysis of filtered suspended sediments.

C-2.4.7.1 Sampling and Analytical Procedures

Stormwater samples for outfalls to Puddingstone Reservoir PCBs and OC Pesticide TMDLs and the Harbors Toxics TMDLs will be collected by the East San Gabriel Valley WMP Group and the Lowe San Gabriel River EWMP Group using autosamplers as described in **Section C-2.4.3.4**. Both groups will share the analytical results with the USGR EWMP Group. Based on TSS measurements at three mass emission sites in LA County (**Table C-18**), use of a TSS concentration of 100 mg/L is expected to provide a conservative basis for estimating reporting limits for OC pesticides, PCBs, and PAHs in suspended sediments based upon 1-liter samples. However, two liters of storm water will be provided for each organic analytical suite for a total of six liters. An accurate measure of suspended sediments is critical to this sampling approach. TSS will be analyzed; however, SSC will be used as the standard for calculating the concentrations of target constituents in suspended sediments and total loads.

Since detection limits will depend upon the concentration of suspended sediment in the sample, the laboratory analyzing the suspended sediment concentrations will be asked to provide a rush analysis to provide information that can be used to direct processing of the samples for the organic compounds. If TSS/SSC are less than 150 mg/L, two liters will be extracted for subsequent HRMS analysis. If TSS concentrations are between 150 and 200 mg/L, one of the additional liter samples may be used to increase the volume of sample water for just PAHs or the additional liter may be used as a field duplicate for each analysis. If TSS concentrations are greater than 200 mg/L, the additional liter may be used as a field duplicate for each analysis. If the initial TSS sample indicates that sediment content is less than 50 mg/L, additional measures will be taken to improve PAH reporting limits with respect to suspended sediment loads. A field duplicate from one site will be analyzed if adequate sample volumes are obtained.

Target reporting limits (**Table C-19** and **Table C-20**) were established based upon bed sediment reporting limits listed in the *Coordinated Compliance and Reporting Plan for the Greater Los Angeles and Long Beach Harbor Waters* (Anchor QEA, 2013). **Table C-19** and **Table C-20** provide a summary of the detection limits attainable in water samples using HRMS analytical methods. Estimated detection limits are provided for concentrations of the target constituents in suspended sediments given the assumption that suspended sediment content of the water sample is 100 mg/L and that 100 percent of the target constituents are associated with the suspended sediment. This provides a conservative assumption with respect to evaluating the potential impacts of concentrations of OC pesticides, PCBs, and PAHs in suspended sediment on concentrations in bed sediment. Additionally, **Table C-19** and **Table C-20** present relevant TMDL targets and reporting limits suggested in the SWAMP QAPP (SWRCB, 2008) and the SQO Technical Support Manual (SCCWRP, 2009). The following summarizes a comparison between the estimated detection limits for OC pesticides, PCBs, and PAHs in the suspended sediments to target reporting limits:

- For OC pesticides (**Table C-19**), estimated detection limits in the suspended sediment are at or below TMDL targets limits for bed sediments, except for dieldrin. The dieldrin estimated detection limit is above the lowest TMDL target, but not the remaining TMDL targets, and is below observed concentrations reported in the TMDL staff reports. Additionally, estimated detection limits in the suspended sediment are below target bed sediment reporting limits for this CIMP and target reporting limits presented in the SWAMP QAPP (SWRCB, 2008) and the SQO Technical Support Manual (SCCWRP, 2009), except for dieldrin. Dieldrin is above the bed sediment reporting limit in this CIMP, but below target reporting limits presented in the SWAMP QAPP (SWRCB, 2008) and the SQO Technical Support Manual (SCCWRP, 2009).
- For PCBs (**Table C-19**), estimated detection limits in the suspended sediment are below TMDL targets limits for bed sediments. Additionally, estimated detection limits in the suspended sediment are at or below target bed sediment reporting limits for this CIMP and below target reporting limits presented in the SWAMP QAPP (SWRCB, 2008) and the SQO Technical Support Manual (SCCWRP, 2009).
- For PAHs (**Table C-20**), estimated detection limits in the suspended sediment are below TMDL targets limits for bed sediments. Most individual PAH compounds would be expected to be detectable in the suspended sediment at concentrations about 2.5 times greater that the target bed sediment reporting limits for this CIMP and the target reporting limits presented in the SWAMP QAPP (SWRCB, 2008). Approximately half of the

individual PAH compounds are above the target reporting limits presented in the SQO Technical Support Manual (SCCWRP, 2009), while the other half are below. Two compounds, naphthalene and phenanthrene, would have detection limits roughly 6 times the target bed sediment reporting limits for this CIMP. Naphthalene is an extremely light weight PAH that is not considered a major analyte of concern in storm water.

As noted previously, metals of interest are quantifiable with standard analytical methods. Detection limits for trace metals (**Table C-2**) are suitable for calculation of concentrations in suspended solids and the concentration of trace metals associated with the particulate fraction will be calculated as:

$C_P = C_T - C_D$

where C_T =Concentration of total recoverable metals

C_D =Concentration of dissolved fraction

C_P =Concentration of the particulate fraction

USEPA's guidance document for development of metals translators (EPA, 1996) uses the same approach for calculation of the trace metals in the particulate fraction.

In summary, all but one of the target reporting limits are below relevant TMDL targets and the overwhelming majority are below bed sediment reporting limits identified in this CIMP and the SWAMP QAPP (SWRCB, 2008) and SQO Technical Support Manual (SCCWRP, 2009). The approach to analyzing whole water samples to estimate concentrations of target pollutants on bed sediment provides an opportunity to improve the understanding of loads during multiple storms each year.

Table C-18.
Summary of Median TSS Measurements (mg/L)
at the San Gabriel River Mass Emission Site

Waterbody	LACFCD Monitoring Site ID	Median
San Gabriel River	S14	113
Coyote Creek	S13	265

Table C-19. Recommended Methods, Estimated Detection Limits, Target Reporting Limits, and Relevant TMDL Targets for Organochlorine Pesticides and Total PCBs

Constituent and Analytical Method	Water Detection Limit (1)	Suspended Sediment Detection Limit (2)	USGR CIMP Target Bed Sediment Reporting Limits	SWAMP QAPP (2008) Reporting Limit	SQO Technical Support Manual (2009) Reporting Limit	Harbors Toxics TMDL Sediment Target (Indirect Effects)	Harbors Toxics TMDL Sediment Target (Direct Effects)	Puddingstone Reservoir Sediment Target (Indirect Effects)
	pg/L	ng/g – dry wt						
Chlordane Compounds (EPA 1699)								
alpha-Chlordane	40	0.4	0.5	1	0.5	1.3 (Total Chlordane)	0.5 (Total Chlordane)	0.75 (Total Chlordane)
gamma-Chlordane	40	0.4	0.5	1	0.54			
Oxychlordane	40	0.4	0.5	1	NA			
trans-Nonachlor	40	0.4	0.5	1	4.6			
cis-Nonachlor	40	0.4	0.5	2	NA			
Other OC Pesticides (EPA 1699)								
2,4'-DDD	40	0.4	0.5	2	0.5	1.9 (Total DDT)	1.58 (Total DDT)	3.94 (Total DDT)
2,4'-DDE	80	0.4	0.5	2	0.5			
2,4'-DDT	80	0.4	0.5	3	0.5			
4,4'-DDD	40	0.4	0.5	2	0.5			
4,4'-DDE	80	0.4	0.5	2	0.5			
4,4'-DDT	80	0.4	0.5	5	0.5			
Total DDT	80	0.4	—	—	0.5			
Dieldrin	40	0.4	0.02	2	2.7	NA	0.02	0.22
Total PCBs (EPA 1668)	5-20	0.05-0.2	0.2	0.2	3.0	3.2	22.7	0.59

NA – Not applicable

1. Water MLs based upon 1 liter of water.
2. Suspended Sediment MLs based upon estimate of 100 mg/L suspended solids.
3. Target is for the summed value of the individual constituents and is not specific to each constituent species.

Table C-20. Estimated Detection Limits, Target Reporting Limits, and Relevant TMDL Targets for PAHs

Constituent	Water Detection Limit (1)	Suspended Sediment Detection Limit (2)	USGR CIMP Target Bed Sediment Reporting Limits	SWAMP QAPP (2009) Reporting Limit	SQO Technical Support Manual Reporting Limit	Harbors Toxics TMDL Sediment Target (Direct Effects)
	pg/L	ng/g – dry wt				
1-Methylnaphthalene	5	50	20	20	20	
1-Methylphenanthrene	5	50	20	20	20	
2-Methylnaphthalene	5	50	20	20	20	
2,6-Dimethylnaphthalene	5	50	20	20	20	
Acenaphthene	5	50	20	20	20	
Anthracene	5	50	20	20	20	552
Benzo(a)anthracene	5	50	20	20	80	(Low Weight) (3)
Benzo(a)pyrene	5	50	20	20	80	
Benzo(e)pyrene	5	50	20	20	80	1700
Biphenyl	5	50	20	20	20	(High Weight) (3)
Chrysene	5	50	20	20	80	
Dibenz(a,h)anthracene	5	50	20	20	80	4700
Fluoranthene	5	50	20	20	80	(Total PAHs)
Fluorene	5	50	20	20	20	
Naphthalene	12.5	125	20	20	20	
Perylene	5	50	20	20	80	
Phenanthrene	12.5	125	20	20	20	
Pyrene	5	50	20	20	80	

NA – Not applicable

1. Water MLs based upon 1 liter of water and CARB 429m. Detection limits are based upon a final extract of 500 µL. If the SSC is low, either an additional liter of water can be extracted to halve the detection limit or the final extract volume can be reduced. Depending on sample characteristics, the extract volume can be reduced to as little as 50-100 µL which would drop MLs by a factor of 0.1 to 0.2 times the listed ML.
2. Suspended Sediment MLs based upon estimate of 100 mg/L suspended solids.

3. *Low Molecular Weight PAHs* Low weight PAHs include Acenaphthene, Anthracene, Phenanthrene, Biphenyl, Naphthalene, 2,6-dimethylnaphthalene, Fluorene, 1-methylnaphthalene, 2-methylnaphthalene, 1-methylphenanthrene, *High Molecular Weight PAHs:* Benzo(a)anthracene, Benzo(a)pyrene, Benzo(e)pyrene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Perylene, Pyrene.

C-2.4.8 Sediment Sample Collection in Lakes

The top layer of sediment will be sampled from the bottom of the lake using an Eckman dredge or a similar device. While on a boat, the field crew will drop the Eckman dredge to the bottom of the lake and obtain a sample. Using a pre-cleaned stainless steel trowel, the field crew will scoop the top two to three centimeters of the sample and place it in a clean polyethylene bag. This procedure will be repeated, carefully to as not sample the exact same location, and the final composited sample will be mixed and placed into the appropriate sample jars.

C-2.4.9 Bioaccumulation Sample Collection

Bioaccumulation sampling will be used to monitor trends in the concentration of contaminants in the tissues of aquatic organisms. This will be conducted in order to assess both ecological and human health concerns and to see if the trends or patterns of contaminant concentrations mirror those observed from the sediment analyses. Human health concerns will be assessed by sampling the tissues from fish species that are commonly taken for consumption by sport fisherman.

Fish sampling protocols shall be conducted in accordance with the California Office of Environmental Health Hazard Assessment's (OEHHA) General Protocol for Sport Fish Sampling and Analysis. Fish may be analyzed, as individuals (preferred) or as composites (secondary). During each survey, the goal will be to collect at least nine fish per targeted species that are of legal size and/or edible size.[2] If fish are analyzed as composite samples, each composite sample shall include a minimum of three fish, with up to five fish per sample preferred, especially if smaller fish are caught (OEHHA, 2005). All fish composite samples must follow OEHHA's "75 percent rule," where the length of the smallest fish should be at least 75% of the length of the largest fish of a species in a composite sample.

Fish sampling techniques may vary due to season, weather, flow rate, target species, etc. Sport fish may be taken by hook and line or seine. Sampling gear may include electrofishing boats, backpack electrofishers, seine nets, gill nets, trap nets, hook and line, or other equipment as required. Reasonable attempts will be made to collect two to three species of sport fish; but, if sport fish cannot be obtained, whatever species of fish, if any, that can be obtained will be collected and analyzed. However, data collected from species that are not typically consumed will be for informational purposes only and not considered representative of human health exposures. The more likely a species is to be consumed by anglers, the greater the importance of information.

C-3 QUALITY CONTROL SAMPLE COLLECTION

Quality control samples will be collected in conjunction with environmental samples to verify data quality. Quality control samples collected in the field will generally be collected in the same manner as environmental samples. Detailed descriptions of quality control samples are presented in Section C-3.1 of this Attachment.

[2] The Department of Fish and Wildlife (DFW) Sport Fishing Regulations define legal size requirements using total length. All size measurements are in terms of total length.

C-3.1 Quality Assurance/Quality Control

This section describes the quality assurance and quality control requirements and processes. Quality control samples will be collected in conjunction with environmental samples to verify data quality. Quality control samples collected in the field will generally be collected in the same manner as environmental samples. There are no requirements for quality control for field analysis of general parameters (e.g., temperature, pH, conductivity, dissolved oxygen, and pH) outlined in SWAMP guidance documents. However, field crews will be required to calibrate equipment as outlined in **Section C-2** of this Attachment. **Table C-21** presents the quality assurance parameter addressed by each quality assurance requirement as well as the appropriate corrective action if the acceptance limit is exceeded.

Table C-21. Quality Control Requirements

Quality Control Sample Type	QA Parameter	Frequency[1]	Acceptance Limits	Corrective Action
Quality Control Requirements – Field				
Equipment Blanks	Contamination	5% of all samples[2]	< MDL	Identify equipment contamination source. Qualify data as needed.
Field Blank	Contamination	5% of all samples	< MDL	Examine field log. Identify contamination source. Qualify data as needed.
Field Duplicate	Precision	5% of all samples	RPD < 25% if |Difference| > RL	Reanalyze both samples if possible. Identify variability source. Qualify data as needed.
Quality Control Requirements – Laboratory				
Method Blank	Contamination	1 per analytical batch	< MDL	Identify contamination source. Reanalyze method blank and all samples in batch. Qualify data as needed.
Lab Duplicate	Precision	1 per analytical batch	RPD < 25% if |Difference| > RL	Recalibrate and reanalyze.
Matrix Spike	Accuracy	1 per analytical batch	80-120% Recovery for GWQC	Check LCS/CRM recovery. Attempt to correct matrix problem and reanalyze samples. Qualify data as needed.
			75-125% for Metals	
			50-150% Recovery for Pesticides [3]	
Matrix Spike Duplicate	Precision	1 per analytical batch	RPD < 30% if |Difference| > RL	Check lab duplicate RPD. Attempt to correct matrix problem and reanalyze samples. Qualify data as needed.
Laboratory Control Sample (or CRM or Blank Spike)	Accuracy	1 per analytical batch	80-120% Recovery for GWQC	Recalibrate and reanalyze LCS/ CRM and samples.
			75-125% for Metals	
			50-150% Recovery for Pesticides [3]	
Blank Spike Duplicate	Precision	1 per analytical batch	RPD < 25% if |Difference| > RL	Check lab duplicate RPD. Attempt to correct matrix problem and reanalyze samples. Qualify data as needed.
Surrogate Spike (Organics Only)	Accuracy	Each environmental and lab QC sample	30-150% Recovery3	Check surrogate recovery in LCS. Attempt to correct matrix problem and reanalyze sample. Qualify data as needed.

MDL = Method Detection Limit RL = Reporting Limit RPD = Relative Percent Difference
LCS = Laboratory Control Sample/Standard CRM = Certified/ Standard Reference Material
GWQC = General Water Quality Constituents

1. "Analytical batch" refers to a number of samples (not to exceed 20 environmental samples plus the associated quality control samples) that are similar in matrix type and processed/prepared together under the same conditions and same reagents (equivalent to preparation batch).
2. Equipment blanks will be collected by the field crew before using the equipment to collect sample.
3. Or control limits set at + 3 standard deviations based on actual laboratory data.

C-3.2 QA/QC Requirements and Objectives

C-3.2.1 Comparability

Comparability of the data can be defined as the similarity of data generated by different monitoring programs. For this monitoring program, this objective will be ensured mainly through use of standardized procedures for field measurements, sample collection, sample preparation, laboratory analysis, and site selection; adherence to quality assurance protocols and holding times; and reporting in standard units. Additionally, comparability of analytical data will be addressed through the use of standard operating procedures and extensive analyst training at the analyzing laboratory.

C-3.2.2 Representativeness

Representativeness can be defined as the degree to which the environmental data generated by the monitoring program accurately and precisely represent actual environmental conditions. For the CIMP, this objective will be addressed by the overall design of the program. Representativeness is attained through the selection of sampling locations, methods, and frequencies for each parameter of interest, and by maintaining the integrity of each sample after collection. Sampling locations were chosen that are representative of various areas within the watershed and discharges from the MS4, which will allow for the characterization of the watershed and impacts MS4 discharges may have on water quality.

C-3.2.3 Completeness

Data completeness is a measure of the amount of successfully collected and validated data relative to the amount of data planned to be collected for the project. It is usually expressed as a percentage value. A project objective for percent completeness is typically based on the percentage of the data needed for the program or study to reach valid conclusions.

Because the CIMP is intended to be a long term monitoring program, data that are not successfully collected during a specific sample event will not be recollected at a later date. Rather subsequent events conducted over the course of the monitoring will provide robust data sets to appropriately characterize conditions at individual sampling sites and the watershed in general. For this reason, most of the data planned for collection cannot be considered absolutely critical, and it is difficult to set a meaningful objective for data completeness.

However, some reasonable objectives for data are desirable, if only to measure the effectiveness of the program when conditions allow for the collection of samples (i.e., flow is present). The program goals for data completeness, shown in **Table C-5**, are based on the planned sampling frequency, SWAMP recommendations, and a subjective determination of the relative importance of the monitoring element within the CIMP. If, however, sampling sites do not allow for the collection of enough samples to provide representative data due to conditions (i.e., no flow) alternate sites will be considered. Data completeness will be evaluated on a yearly basis.

C-3.3 QA/QC Field Procedures

Quality control samples to be prepared in the field will consist of equipment blanks, field blanks, and field duplicates as described below.

C-3.3.1 Equipment Blanks

The purpose of analyzing equipment blanks is to demonstrate that sampling equipment is free from contamination. Equipment blanks will be collected by the analytical laboratory responsible for cleaning equipment and analyzed for relevant pollutants before sending the equipment to the field crew. Equipment blanks will consist of laboratory-prepared blank water (certified to be contaminant-free by the laboratory) processed through the sampling equipment that will be used to collect environmental samples.

The equipment blanks will be analyzed using the same analytical methods specified for environmental samples. If any analytes of interest are detected at levels greater than the MDL, the source(s) of contamination will be identified and eliminated (if possible), the affected batch of equipment will be re-cleaned, and new equipment blanks will be prepared and analyzed before the equipment is returned to the field crew for use.

C-3.3.2 Field Blanks

The purpose of analyzing field blanks is to demonstrate that sampling procedures do not result in contamination of the environmental samples. Per the Quality Assurance Management Plan for SWAMP (SWRCB, 2008) field blanks are to be collected as follows:

- At a frequency of 5% of samples collected for the following constituents: trace metals in water (including mercury), VOC samples in water and sediment, DOC samples in water, and bacteria samples.
- Field blanks for other media and analytes should be conducted upon initiation of sampling, and if field blank performance is acceptable (as described in Table C-21), further collection and analysis of field blanks for these other media and analytes need only be performed on an as-needed basis, or during field performance audits. An as-needed basis for the USGR CIMP will be annually.

Field blanks will consist of laboratory-prepared blank water (certified to be contaminant-free by the laboratory) processed through the sampling equipment using the same procedures used for environmental samples.

If any analytes of interest are detected at levels greater than the MDL, the source(s) of contamination should be identified and eliminated, if possible. The sampling crew should be notified so that the source of contamination can be identified (if possible) and corrective measures taken prior to the next sampling event.

C-3.3.3 Field Duplicates

The purpose of analyzing field duplicates is to demonstrate the precision of sampling and analytical processes. Field duplicates will be prepared at the rate of 5% of all samples, and analyzed along with the associated environmental samples. Field duplicates will consist of two grab samples collected simultaneously, to the extent practicable. If the Relative Percent Difference (RPD) of field duplicate results is greater than the percentage stated in **Table C-21** and the absolute difference is greater than the RL, both samples should be reanalyzed, if possible. The sampling crew should be notified so that the source of sampling variability can be identified (if possible) and corrective measures taken prior to the next sampling event.

C-3.4 QA/QC Laboratory Analyses

Quality control samples prepared in the laboratory will consist of method blanks, laboratory duplicates, matrix spikes/duplicates, laboratory control samples (standard reference materials), and toxicity quality controls.

C-3.4.1 Method Blanks

The purpose of analyzing method blanks is to demonstrate that sample preparation and analytical procedures do not result in sample contamination. Method blanks will be prepared and analyzed by the contract laboratory at a rate of at least one for each analytical batch. Method blanks will consist of laboratory-prepared blank water processed along with the batch of environmental samples. If the result for a single method blank is greater than the MDL, or if the average blank concentration plus two standard deviations of three or more blanks is greater than the RL, the source(s) of contamination should be corrected, and the associated samples should be reanalyzed.

C-3.4.2 Laboratory Duplicates

The purpose of analyzing laboratory duplicates is to demonstrate the precision of the sample preparation and analytical methods. Laboratory duplicates will be analyzed at the rate of one pair per sample batch. Laboratory duplicates will consist of duplicate laboratory fortified method blanks. If the RPD for any analyte is greater than the percentage stated in **Table C-21** and the absolute difference between duplicates is greater than the RL, the analytical process is not being performed adequately for that analyte. In this case, the sample batch should be prepared again, and laboratory duplicates should be reanalyzed.

C-3.4.3 Matrix Spikes and Matrix Spike Duplicates

The purpose of analyzing matrix spikes and matrix spike duplicates is to demonstrate the performance of the sample preparation and analytical methods in a particular sample matrix. Matrix spikes and matrix spike duplicates will be analyzed at the rate of one pair per sample batch. Each matrix spike and matrix spike duplicate will consist of an aliquot of laboratory-fortified environmental sample. Spike concentrations should be added at five to ten times the reporting limit for the analyte of interest.

If the matrix spike recovery of any analyte is outside the acceptable range, the results for that analyte have failed to meet acceptance criteria. If recovery of laboratory control samples is acceptable, the analytical process is being performed adequately for that analyte, and the problem is attributable to the sample matrix. An attempt will be made to correct the problem (e.g., by dilution, concentration, etc.), and the samples and matrix spikes will be re-analyzed.

If the matrix spike duplicate RPD for any analyte is outside the acceptable range, the results for that analyte have failed to meet acceptance criteria. If the RPD for laboratory duplicates is acceptable, the analytical process is being performed adequately for that analyte, and the problem is attributable to the sample matrix. An attempt will be made to correct the problem (e.g., by dilution, concentration, etc.), and the samples and matrix spikes will be re-analyzed.

C-3.4.4 Laboratory Control Samples

The purpose of analyzing laboratory control samples (or a standard reference material) is to demonstrate the accuracy of the sample preparation and analytical methods. Laboratory control samples will be analyzed at the rate of one per sample batch. Laboratory control samples will consist of laboratory fortified method blanks or a standard reference material. If recovery of any

analyte is outside the acceptable range, the analytical process is not being performed adequately for that analyte. In this case, the sample batch should be prepared again, and the laboratory control sample should be reanalyzed.

C-3.4.5 Surrogate Spikes

Surrogate recovery results are used to evaluate the accuracy of analytical measurements for organics analyses on a sample-specific basis. A surrogate is a compound (or compounds) added by the laboratory to method blanks, samples, matrix spikes, and matrix spike duplicates prior to sample preparation, as specified in the analytical methodology. Surrogates are generally brominated, fluorinated or isotopically labeled compounds that are not usually present in environmental media. Results are expressed as percent recovery of the surrogate spike. Surrogate spikes are applicable for analysis of PCBs and pesticides.

C-3.4.6 Toxicity Quality Control

For aquatic toxicity tests, the acceptability of test results is determined primarily by performance-based criteria for test organisms, culture and test conditions, and the results of control bioassays. Control bioassays include monthly reference toxicant testing. Test acceptability requirements are documented in the method documents for each bioassay method.

C-4 INSTRUMENT/EQUIPMENT CALIBRATION AND FREQUENCY

Frequencies and procedures for calibration of analytical equipment used by each contract laboratory are documented in the QA Manual for each laboratory. Any deficiencies in analytical equipment calibration should be managed in accordance with the QA Manual for each contract laboratory. Any deficiencies that affect analysis of samples submitted through this program must be reported to the USGR EWMP Group. Laboratory QA Manuals are available for review at the analyzing laboratory.

C-5 DATA MANAGEMENT

Section C-5 details the procedures for managing and reporting data meet the goals and objectives of the CIMP and in turn the Permit. The details contained herein serve as a guide for ensuring that consistent protocols and procedures are in place for successful data management and reporting.

C-5.1 Data Review, Verification, and Validation Requirements

The acceptability of data is determined through data verification and data validation. Both processes are discussed in detail below. In addition to the data quality objectives presented in **Table C-5**, the standard data validation procedures documented in the contract laboratory's QA Manual will be used to accept, reject, or qualify the data generated by the laboratory. Each laboratory's QA Officer will be responsible for validating data generated by the laboratory.

Once analytical results are received from the analyzing laboratory, the USGR EWMP Group will perform an independent review and validation of analytical results. **Appendix 2** provides equations that are used to calculate precision, accuracy, and completeness of the data. Decisions to reject or qualify data will be made by the USGR EWMP Group, based on the evaluation of field and laboratory quality control data, according to procedures outlined in Section 13 of Caltrans document No. CTSW-RT-00-005, *Guidance Manual: Stormwater Monitoring*

Protocols, 2nd Edition (LWA, 2000). Section 13 of the Caltrans Guidance Manual is included as **Appendix 2**.

C-5.1.1 Data Verification

Data verification involves verifying that required methods and procedures have been followed at all stages of the data collection process, including sample collection, sample receipt, sample preparation, sample analysis, and documentation review for completeness. Verified data have been checked for a variety of factors, including transcription errors, correct application of dilution factors, appropriate reporting of dry weight versus wet weight results, and correct application of conversion factors. Verification of data may also include laboratory qualifiers, if assigned.

Data verification should occur in the field and the laboratory at each level (i.e., all personnel should verify their own work) and as information is passed from one level to the next (i.e., supervisors should verify the information produced by their staff). Records commonly examined during the verification process include field and sample collection logs, COC forms, sample preparation logs, instrument logs, raw data, and calculation worksheets.

In addition, laboratory personnel will verify that the measurement process was "in control" (i.e., all specified data quality objectives were met or acceptable deviations explained) for each batch of samples before proceeding with the analysis of a subsequent batch. Each laboratory will also establish a system for detecting and reducing transcription and/or calculation errors prior to reporting data.

C-5.1.2 Data Validation

In general, data validation involves identifying project requirements, obtaining the documents and records produced during data verification, evaluating the quality of the data generated, and determining whether project requirements were met. The main focus of data validation is determining data quality in terms of accomplishment of measurement quality objectives (i.e., meeting QC acceptance criteria). Data quality indicators, such as precision, accuracy, sensitivity, representativeness, and completeness, are typically used as expressions of data quality. The USGR EWMP Group, will review verified sample results for the data set as a whole, including laboratory qualifiers, summarize data and QC deficiencies and evaluate the impact on overall data quality, assign data validation qualifiers as necessary, and prepare an analytical data validation report. The validation process applies to both field and laboratory data.

In addition to the data quality objectives presented in **Table C-5**, the standard data validation procedures documented in the analyzing laboratory's QA Manual will be used to accept, reject, or qualify the data generated. The laboratory will only submit data that have met data quality objectives, or data that have acceptable deviations explained. When QC requirements have not been met, the samples will be reanalyzed when possible, and only the results of the reanalysis will be submitted, provided that they are acceptable. Each laboratory's QA Officer is responsible for validating the data it generates.

C-5.1.3 Data Management

Analytical Data Reports will be sent to and kept by the USGR EWMP Group. Each type of report will be stored separately and ordered chronologically. The field crew shall retain the original field logs. The contract laboratory shall retain original COC forms. The contract laboratory will retain copies of the preliminary and final data reports. Concentrations of all

parameters will be calculated as described in the laboratory SOPs or referenced method document for each analyte or parameter.

The field log and analytical data generated will be converted to a standard database format maintained on personal computers. After data entry or data transfer procedures are completed for each sample event, data will be validated. After the final quality assurance checks for errors are completed, the data will be added to the final database.

C-6 REPORTING

The MRP includes a number of reporting requirements to summarize CIMP implementation efforts, the data collected as part of the CIMP, as well as to report on implementation of the Permit requirements as a whole. The following sections detail monitoring and reporting requirements outlined in the MRP and provides information on how the water, sediment, and tissue data collected as part of this CIMP data are to be used.

C-6.1 Semi-Annual Analytical Data Reports

As required by Part XIV.L of the MRP, results from each of the receiving water or outfall based monitoring stations conducted in accordance with the SOP shall be sent electronically to the Regional Board's Stormwater site at MS4stormwaterRB4@waterboards.ca.gov. The monitoring results will be submitted on a semi-annual basis and will highlight exceedances applicable to WQBELs, RWLs, action levels, or aquatic toxicity thresholds. Corresponding sample dates and monitoring locations will be included. Data will be transmitted in the most recent Southern California SMC's Standardized Data Transfer Formats. Reports of monitoring activities will include, at a minimum, the following information (records of which are required by Part XIV.A.1.c of the MRP):

1. The date, time of sampling or measurements, exact place, weather conditions, and rain fall amount.
2. The individual(s) who performed the sampling or measurements.
3. The date(s) analyses were performed.
4. The individual(s) who performed the analyses.
5. The analytical techniques or methods used.
6. The results of such analyses.
7. The data sheets showing toxicity test results.

C-6.2 Annual Monitoring Reports

As outlined in Part XVI.A of the MRP, the annual reporting process is intended to provide the Regional Board with summary information to allow for the assessment of the Permittee's:

1. Participation in one or more Watershed Management Programs.
2. Impact of each Permittee(s) stormwater and non-stormwater discharges on the receiving water.
3. Each permittee's compliance with RWLs, numeric WQBELs, and non-stormwater action levels.
4. The effectiveness of each Permittee(s) control measures in reducing discharges of pollutants from the MS4 to receiving waters.
5. Whether the quality of MS4 discharges and the health of receiving waters is improving, staying the

same, or declining as a result of watershed management program efforts, and/or TMDL implementation measures, or other MCMs.

6. Whether changes in water quality can be attributed to pollutant controls imposed on new development, re-development, or retrofit projects.

The annual report process also seeks to provide a forum for Permittee(s) to discuss the effectiveness of its past and ongoing control measure efforts and to convey its plans for future control measures. Detailed data and information will also be provided in a clear and transparent fashion to allow the Regional Board and the general public to review and verify conclusions presented by the Permittee. Annual reports shall be organized to include the information as described in the following subsections.

C-6.3 Watershed Summary Information

According to Section XVII.B of the MRP, Permittees shall include the information requested in MRP Section XVII.B parts A.1 through A.3 in its odd year Annual Report (e.g., Year 1, 3, 5). The requested information shall be provided for each watershed within the Permittee's jurisdiction. Alternatively, Permittees participating in a EWMP may provide the requested information through the development and submission of a EWMP plan and any updates. As the EWMP Group is submitting an EWMP the information is not required as a separate submittal. However, updates to information requested in Section XVII.B parts A.1 through A.3 (presented in **Sections C-6.3.1** through **C-6.3.3** below) will be noted in EWMP plan updates.

C-6.3.1 Watershed Management Area

When a Permittee has collaboratively developed an EWMP, reference to the EWMP and any revisions to the EWMP may suffice for baseline information regarding the following watershed management area details:

1. The effective TMDLs, applicable WQBELs and RWLs, and implementation and reporting requirements, and compliance dates.
2. CWA section 303(d) listings of impaired waters not addressed by TMDLs.
3. Results of regional bioassessment monitoring.
4. A description of known hydromodificaitons to receiving waters and a description, including locations, of natural drainage systems.
5. Description of groundwater recharge areas including number and acres.
6. Maps and/or aerial photographs identifying the location of Environmentally Sensitive Areas (ESAs), Areas of Special Biological Significance (ASBS), natural drainage systems, and groundwater recharge areas.

C-6.3.2 Subwatershed (HUC-12) Descriptions

When a Permittee has collaboratively developed an EWMP, reference to the EWMP and any revisions to the EWMP may suffice for information regarding the following Subwatershed (twelve digit Hydrologic Unit Code or HUC-12) descriptions:

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 watershed.

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 ourfalls and all low-flow diversions.

C-6.3.3 Description of Permittee(s) Drainage Area within the Subwatershed

When a Permittee has collaboratively developed an EWMP, reference to the EWMP and any revisions to the EWMP may suffice for information regarding the Drainage Area 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 located within the Permittee(s) jurisdictional area.
2. Provide the estimated baseline percent of effective impervious area (EIA) within the Permitte(s) jurisdictional area.

C-6.3.4 Annual Assessment and Reporting

The following sections will be included in the CIMP Annual Report to meet the MRP requirements. The Annual Report will clearly identify all data collected and strategies, control measures, and assessments implemented by each Permittee within the EWMP area, as well as those implemented by multiple Permittees on a watershed scale.

Stormwater Control Measures

All reasonable efforts will be made to determine, compile, analyze, and summarize the following information for each Permittee:

1. Estimated cumulative change in percent EIA since the effective date of the Order, and if possible, the estimated change in the stormwater runoff volume during the 85th percentile storm event.
2. Summary of New Development/Re-Development Projects constructed within the Permittee(s) jurisdictional area during the reporting year.
3. Summary of Retrofit Projects that reduced or disconnected impervious area from MS4 during the reporting year.
4. Summary of other projects designed to intercept stormwater runoff prior to discharge to the MS4 during the reporting year.
5. Estimate the total runoff volume retained on site by the implementation of such projects during the reporting year.
6. Summary of actions taken in compliance with TMDL implementation plans or approved EWMP to implement TMDL provisions.
7. Summary of riparian buffer/wetland restoration projects completed during the reporting year. For riparian buffers include width, length and vegetation type; for wetland include acres restored, enhanced, or created.
8. Summary of other MCMs implemented during the reporting year, as the Permittee deems relevant.
9. Status of all multi-year efforts that were not completed in the current year and will therefore continue into the subsequent year(s). Additionally, if any of the requested information cannot be obtained, the Permittee(s) will provide a discussion of the factor(s) limiting its acquisition and steps that will be taken to improve future data collection efforts.

Effectiveness Assessment of Stormwater Control Measures

The following information will be included to detail Stormwater Control Measures during the reporting year:

1. Rainfall summary for the reporting year, including the number of storm events, highest volume event (inches/24 hours), highest number of consecutive days with measurable rainfall, total rainfall during the reporting year compared to average annual rainfall for the EWMP area.
2. A summary table describing rainfall during stormwater outfall and wet-weather receiving water monitoring events. The summary description will 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.
3. Where control measures were designed to reduce impervious cover or stormwater peak flow and flow duration, hydrographs or flow data of pre- and post-control activity for the 85th percentile, 24-hour rain event, if available.
4. For natural drainage systems, a reference watershed flow duration curve and comparison to a flow duration curve for the EWMP area under current conditions.
5. An assessment as to whether the quality of stormwater discharges as measured at designed outfalls is improving, staying the same, or declining. Water quality data may be compared from the reporting year to previous years with similar rainfall patterns, a trends analysis may be conducted, or other means may be used to develop and support the assessment's conclusions.
6. An assessment as to whether wet-weather receiving water quality is improving, staying the same or declining, when normalized for variations in rainfall patterns. Water quality data may be compared from the reporting year to previous years with similar rainfall patterns, a trends analysis may be conducted, regional bioassessment studies may be drawn from, or other means may be used to develop and support the assessment's conclusions.
7. Status of all multi-year efforts, including TMDL implementation, which were not completed in the current year and will continue into the subsequent year(s). Additionally, if any of the requested information cannot be obtained, a discussion of the factors(s) limiting its acquisition and steps that will be taken to improve future data collection efforts will be provided.

Non-stormwater Water Control Measures

The following information will be included to detail non-stormwater control measures:

1. An estimation of the number of major outfalls within the EWMP area.
2. The number of outfalls that were screened for significant non-stormwater discharges during the reporting year.
3. The cumulative number of outfalls that have been screened for significant non-stormwater discharges since the date the Permit was adopted through the reporting year.
4. The number of outfalls with confirmed significant non-stormwater discharge.
5. 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.
6. The number of outfalls where significant non-stormwater discharges were abated as a result of the EWMP Group actions.
7. The number of outfalls where non-stormwater discharges was monitored.

8. The status of all multi-year efforts, including TMDL implementation, which were not completed in the current year and will continue into the subsequent year(s). Additionally, if any of the requested information cannot be obtained, a discussion of the factor(s) limiting its acquisition and steps that will be taken to improve future data collection efforts will be provided.

Effectiveness Assessment of Non-Stormwater Control Measures

The following information will be included to assess non-stormwater control measures effectiveness:

1. An assessment as to whether receiving water quality within the EMWP area is impaired, improving, staying the same or declining during the dry-weather conditions. Water quality data from the reporting year to previous years with similar dry-weather flows may be compared, a trends analysis may be conducted, regional bioassessment studies may be drawn from, or other means may be used to develop and support the assessment's conclusions.
2. An assessment of the effectiveness of the control measures in effectively prohibiting non-stormwater discharges through the MS4 to the receiving water.
3. The status of all multi-year efforts that were not completed in the current year and will continue into the subsequent year(s).

Integrated Monitoring Compliance Report

The following information will be included to assess the Permittee(s) compliance with applicable TMDLs, WQBELs, RWLs, and action levels:

1. An Integrated Monitoring Report that summarizes all identified exceedances of the following against applicable RWLs, WQBELs, non-stormwater action levels, and aquatic toxicity thresholds:
   a. Outfall-based stormwater monitoring data
   b. Wet weather receiving water monitoring data
   c. Dry weather receiving water data
   d. NSW outfall monitoring data

   All sample results that exceeded one more applicable thresholds shall be readily identified.
2. If aquatic toxicity was confirmed and a TIE was conducted, the toxic chemicals, as determined by the TIE, will be identified. All relevant data to allow the Regional Board to review the adequacy and findings of the TIE will be included. This shall include, but not be limited to:
   a. The sample(s) date
   b. Sample(s) start and end time
   c. Sample type(s)
   d. Sample location(s) as depicted on a map
   e. The parameters, analytical results, and applicable limitation.
3. A description of efforts that were taken to mitigate and/or eliminate all non-stormwater discharges that exceeded one or more applicable WQBELs, or caused or contributed to Aquatic Toxicity.
4. A description of efforts that were taken to address stormwater discharges that exceeded one or more applicable WQBELs, or caused or contributed to Aquatic Toxicity.
5. Where RWLs were exceeded, provide a description of 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.

Adaptive Management Strategies

The following information will be included to outline Adaptive Management Strategies:

1. The most effective control measures, why the measures were effective, and how other measures will be optimized based on past experiences.
2. The least effective control measures, why the measures were deemed ineffective, and how the controls measures will be modified or terminated.
3. Significant changes to control measures during the prior year and the rationale for the changes.
4. All significant changes to control measures anticipated to be made next year and rationale for the changes. Those changes requiring approval of the Regional Board or its Executive Officer will be clearly identified at the beginning of the Annual Report.
5. A detailed description of control measures to be applied to New Development or Re-development projects disturbing more than 50 acres.
6. The status of all multi-year efforts that were not completed in the current year and will continue into the subsequent year(s).

Supporting Data and Information

All monitoring data and associated meta-data used to prepare the Annual Report will be summarized in an MS Excel© spreadsheet and sorted by monitoring station/outfall identifier linked to the EWMP area map. The data summary will include the date, sample type (flow-weighted composite, grab, field measurement), sample start and stop times, parameter, analytical method, value, and units. The date field will be linked to a database summarizing the weather data for the sampling date including 24-hour rainfall, rainfall intensity, and days since the previous rain event.

C-6.4 Signatory and Certification Requirements

All applications, reports, or information submitted to the Regional Board, State Board, and/or USEPA will be signed and certified as follows:

1. All applications submitted to the Regional Board shall be signed by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer includes: (i) the chief executive officer of the agency (e.g., Mayor), or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., City Manager, Director of Public Works, City Engineer, etc.).
2. All reports required by the Permit and other information requested by the Regional Board, State Board, or USEPA shall be signed by either a principal executive officer or 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.

3. 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.
4. The following certification will be made by any person signing an application or report:
   "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."

C-6.5 Use of Submitted Data

As stated in Part II.A.2 of the MRP, a Primary Objective of the Monitoring Program is to assess compliance with RWLs and WQBELs established to implement TMDL wet weather and dry weather wasteload allocations WLAs. As such, a discussion of how the compliance evaluation will be conducted is warranted and is presented below.

C-6.5.1 Compliance Evaluation

The compliance evaluation will take into consideration the relationship between the types of monitoring and the pathways for determining compliance outlined in the Permit. For example, the receiving water monitoring sites meet the MRP objectives and support an understanding of potential impacts associated with MS4 discharges. However, as described in the MRP (Part II.E.1), receiving water sites are intended to assess receiving water conditions. An exceedance of a RWL at a receiving water site does not on its own indicate MS4 discharges caused or contributed to the RWL exceedance. As the receiving water sites also receive runoff from non-MS4 sources, including open space and other permitted discharges, the exceedance of a RWL may have been caused or contributed to by a non-MS4 source. Additionally, an exceedance at an outfall location when the corresponding downstream receiving water location is in compliance with the water quality objectives and RWLs does not constitute an exceedance of a WQBEL.

Finally, reporting of compliance will be accomplished by evaluating the data, in addition to the status of EWMP implementation consistent with the Permit (Parts VI.C.2, VI.C.3 and VI.E.2). Generally, reporting of compliance will consider whether the following conditions, as applicable, are met:

1. There are no violations of the effective WQBEL (i.e., interim or final) for the specific pollutant at the Permittee's applicable MS4 outfall(s).
2. There are no exceedances of an applicable RWLs for the specific pollutant in the receiving water(s) at, or downstream of, the Permittee's outfall(s).
3. There is no direct or indirect discharge from the Permittee's MS4 to the receiving water during the

time period subject to the WQBEL and/or RWL for the pollutant(s) associated with a specific TMDL.

4. In drainage areas where Permittees are implementing an EWMP, (i) all non-stormwater and (ii) all stormwater runoff up to and including the volume equivalent to the 85th percentile, 24-hour event is retained for the drainage area tributary to the applicable receiving water.
5. The approved USGR EWMP is being implemented pursuant to Part VI.C of the Permit.
6. Conditions of effective Time Schedule Orders (TSOs) are met.
7. Exceedances of RWLs not otherwise addressed by a TMDL are addressed pursuant to Part VI.C.2 of the Permit.

In addition, evaluation of compliance for pollutants subject to TMDLs will consider the requirements specified in the applicable TMDLs described in the following subsections.

SGR Metals TMDL Interim Milestones Compliance Determination

Per the Metals TMDL, the EWMP Group is required to show increasing percentages of the total watershed meeting dry and wet weather WLAs phased over a 12-year period. **Table 22** lists the compliance milestone dates as well as the required percent compliance for the total watershed. The percent compliance for the EWMP Group will be calculated using an annual average. The annual average will be determined by averaging the total percentage for all of the sampling events occurring during an individual year to adequately characterize the dry or wet weather conditions for the reporting period.

Table 22. Compliance Milestone Dates and Required Percent Compliance

Compliance Milestone Date	Dry Weather Percent of Total Drainage Area Served by MS4 Meeting WLA	Wet Weather Percent of Total Drainage Area Served by MS4 Meeting WLA
September 30, 2017	30%	10%
September 30, 2020	70%	35%
September 30, 2023	100%	65%
September 30, 2026	100%	100%

Lakes TMDL Special Considerations

The East San Gabriel Valley WMP group is collecting the Stormwater samples required under the Lakes TMDL for Puddingstone Reservoir. The data collected at the LTA site of the receiving waters discharging into Puddingstone Reservoir will be used as reprehensive stormwater discharges to the reservoir. As detailed in the CIMP, the Lakes TMDL monitoring requirements specified in the MRP were considered when choosing the parameters. To estimate stormwater flows entering the lake, the rational method or the watershed model used to develop the EWMP will be used, and the chosen calculation method will be detailed in the Annual Report.

Use of Specie-Specific Data for Chlordanes, PCBs, and PAHs

Chlordanes, PCBs, and PAHs are unique in that they are pollutant categories which may be analyzed for the species that make up the pollutant category and the species of interest varies

depending on the purpose of data collection. The individual constituents are summed to determine "total" concentrations. The following describes how individual chlordane, PCB, and PAH species will be summed for comparison to applicable WQBELs, RWLs, TMDL targets, WLAs, and/or State adopted objectives.

Analysis included in this CIMP for chlordane includes the following species: alpha-chlordane, gamma-chlordane, oxychlordane, cis-Nonachlor, and trans-Nonachlor. The calculation of total chlordane will be conducted as follows:

- When evaluating sediment concentrations and loads associated with the direct effects California Sediment Quality Objectives, quantified concentrations of alpha-chlordane, gamma-chlordane, trans-Nonachlor will be summed.
- When evaluating sediment concentrations and loads and tissue concentrations associated with indirect effects, quantified concentrations of alpha-chlordane, gamma-chlordane, oxychlordane, cis-Nonachlor, and trans-Nonachlor will be summed.
- Upon approval by the State Board, for the purposes of conducting analyses associated with the Decision Support Tool (DST) for determining impairment due to indirect effects associated with sediment concentrations, data for each species will be utilized in a manner consistent with the supporting documentation.

Analysis included in this CIMP for PCBs includes the following species: Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 and congeners 8, 18, 28, 31, 33, 37, 44, 49, 52, 56, 60, 66, 70, 74, 77, 81, 87, 95, 97, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 132, 138, 141, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 174, 177, 180, 183, 187, 189, 194, 195, 201, 203, 206, and 209. The calculation of total PCBs will be conducted as follows:

- When evaluating water concentrations for the purposes of comparing to the California Toxics Rule (CTR) aquatic life criteria, quantified concentrations of aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 will be summed.
- When evaluating water concentrations for the purposes of comparing to the CTR human health criteria, quantified concentrations of aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 or congeners 8, 18, 28, 31, 33, 37, 44, 49, 52, 56, 60, 66, 70, 74, 77, 81, 87, 95, 97, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 132, 138, 141, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 174, 177, 180, 183, 187, 189, 194, 195, 201, 203, 206, and 209 will be summed.
- When evaluating sediment concentrations and loads associated with the direct effects California Sediment Quality Objectives, quantified concentrations of congeners 8,18, 28, 44, 52, 66, 101, 105, 118, 128, 138, 153, 170, 180, 187, 189, 195, 206, and 209 will be summed.
- When evaluating sediment and tissue samples associated with indirect effects, quantified concentrations of congeners 18, 28, 37, 44, 49, 52, 66, 70, 74, 77, 81, 87, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 138, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 177, 180, 183, 187, 189, 194, 201, and 206

will be summed

- Upon approval by the State Board, for the purposes of conducting analyses associated with the DST for determining impairment due to indirect effects associated with sediment concentrations, data for each species will be utilized in a manner consistent with the supporting documentation.

Analysis included in this CIMP for PAHs includes the following constituents: Benzo(a)pyrene, 3,4 Benzofluoranthene, Benzo(k)flouranthene, Chrysene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene. The calculation of total PAHs will be conducted as follows:

- When evaluating sediment and tissue samples associated with direct and indirect effects, quantified concentrations of Benzo(a)pyrene, 3,4 Benzofluoranthene, Benzo(k)flouranthene, Chrysene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene will be summed.
- Upon approval by the State Board, for the purposes of conducting analyses associated with the DST for determining impairment due to indirect effects associated with sediment concentrations, data for each species will be utilized in a manner consistent with the supporting documentation.

Appendix 1 Example Field and Chain-of-Custody Forms

EXAMPLE Field Log **Page 1 of 2**

GENERAL INFORMATION Date: _____

Site ID: _____ Sampling Personnel: _____

GPS Coordinates: (lat) _____ (lon) _____ Picture/Video #: _____

OBSERVATIONS

Weather: _____

Water Color: _____ In stream Activity: _____

Water Characteristics (flow type, odor, turbidity, floatables): _____

Other comments (trash, wildlife, recreational uses, homeless activity, etc. – Use notes section if more room is needed):

_____

***In situ* WATER QUALITY MEASUREMENTS**

Time	Temp (^{0}C)	pH	D.O. (mg/L)	D.O. % Sat	Elec Cond. (uS/cm)

COLLECTED WATER QUALITY SAMPLES

Sample ID	Analysis	Time	Volume	Notes
				Field blank
				Field duplicate

ADDITIONAL WATER QUALITY SAMPLING NOTES:

Example Field Log

FLOW MEASUREMENTS WITH VELOCITY METER

Estimated Total Width of Flowing Water (ft): _____ Distance measured from (circle): RIGHT or LEFT

Measurement Number	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**
Distance from Bank (ft)														
Depth (ft)														
Velocity (ft/s)														

FLOW MEASUREMENTS WITH FLOAT AND STOPWATCH Number of Flow Paths:_____

Fill out Path #	Path#	Path#	Path#	Path#	Path#
Width of Flow at **Top** of Marked Section:					
Width of Flow at **Middle** of Marked Section:					
Width of Flow at **Bottom** of Marked Section:					
Depth of Flow at 0% of **Top** Marked Section:					
Depth of Flow at 25% of **Top** Marked Section:					
Depth of Flow at 50% of **Top** Marked Section:					
Depth of Flow at 75% of **Top** Marked Section:					
Depth of Flow at 100% of **Top** Marked Section:					
Depth of Flow at 0% of **Middle** Marked Section:					
Depth of Flow at 25% of **Middle** Marked Section:					
Depth of Flow at 50% of **Middle** Marked Section:					
Depth of Flow at 75% of **Middle** Marked Section:					
Depth of Flow at 100% of **Middle** Marked Section:					
Depth of Flow at 0% of **Bottom** Marked Section					
Depth of Flow at 25% of **Bottom** Marked Section:					
Depth of Flow at 50% of **Bottom** Marked Section:					
Depth of Flow at 75% of **Bottom** Marked Section:					
Depth of Flow at 100% of **Bottom** Marked Section					
Distance Marked-off for Velocity:					
Time 1:					
Time 2:					
Time 3:					

Specify if measurements are in inches or feet using "in" or "ft"

FLOW MEASUREMENT WITH GRADUATED CONTAINER

Container Volume:_____ Percent Capture:_____

Time to fill container:

	Minutes	Seconds
Time1		
Time2		
Time3		

ADDITIONAL FLOW MEASUREMENT NOTES:

Example Chain-of-Custody Form

CHAIN-OF-CUSTODY RECORD Date: Lab ID:

Destination Lab:

Address:

Phone:

Fax:

Sampled By:

Contact:

Project:

Client Sample Id	Sample Date	Sample Time	Sample Matrix	Container #	Container Type	Container Pres.										Notes

Sender Comments:	Relinquished By (1):	Relinquished By (2):
	Signature:	
	Print:	
	Organization:	
	Date: Time:	Date: Time:
Laboratory Comments:	Received By (1):	Received By (2):
	Signature:	
	Print:	
	Organization:	
	Date: Time:	Date: Time:

Crew:

Appendix 2: Chapter 13 QA/QC Data Evaluation from Caltrans Guidance Manual: Stormwater Monitoring Protocols, 2nd Edition

SECTION 13
QA/QC DATA EVALUATION

All data reported by the analytical laboratory must be carefully reviewed to determine whether the project's data quality acceptability limits or objectives (DQOs) have been met. This section describes a process for evaluation of all laboratory data, including the results of all QA/QC sample analysis.

Before any results are reported by the laboratory, the deliverable requirements should be clearly communicated to the laboratory, as described in the "Laboratory Data Package Deliverables" discussion in ***Section 12***.

The current section discusses QA/QC data evaluation in the following two parts:

KEY TOPICS

- **Initial Data Quality Screening**
- **Data Quality Evaluation**

The initial data quality screening identifies problems with laboratory reporting while they may still be corrected. When the data reports are received, they should be immediately checked for conformity to chain of custody requests to ensure that all requested analyses have been reported. The data are then evaluated for conformity to holding time requirements, conformity to reporting limit requests, analytical precision, analytical accuracy, and possible contamination during sampling and analysis. The data evaluation results in rejection, qualification, and narrative discussion of data points or the data as a whole. Qualification of data, other than rejection, does not necessary exclude use of the data for all applications. It is the decision of the data user, based on specifics of the data application, whether or not to include qualified data points.

➢ INITIAL DATA QUALITY SCREENING

The initial screening process identifies and corrects, when possible, inadvertent documentation or process errors introduced by the field crew or the laboratory. The initial data quality control screening should be applied using the following three-step process:

1. *Verification check between sampling and analysis plan (SAP), chain of custody forms, and laboratory data reports*: Chain of custody records should be compared with field logbooks and laboratory data reports to verify the accuracy of all sample identification and to ensure that all samples submitted for analysis have a value reported for each parameter requested. Any deviation from the SAP that has not yet

been documented in the field notes or project records should be recorded and corrected if possible.

Sample representativeness should also be assessed in this step. The minimum acceptable storm capture parameters (number of aliquots and percent storm capture) per amount of rainfall are specified in ***Section 10***. Samples not meeting these criteria are generally not analyzed; however, selected analyses can be run at the Caltrans task manager's discretion. If samples not meeting the minimum sample representativeness criteria are analyzed, the resulting data should be rejected ("R") or qualified as estimated ("J"), depending upon whether the analyses were approved by Caltrans. Grab samples should be taken according to the timing protocols specified in the SAP. Deviations from the protocols will result in the rejection of the data for these samples or qualification of the data as estimated. The decision to reject a sample based on sample representativeness should be made prior to the submission of the sample to the laboratory, to avoid unnecessary analytical costs.

2. *Check of laboratory data report completeness*: As discussed in ***Section 12***, the end product of the laboratory analysis is a data report that should include a number of QA/QC results along with the environmental results. QA/QC sample results reported by the lab should include both analyses requested by the field crew (field blanks, field duplicates, lab duplicates and MS/MSD analysis), as well as internal laboratory QA/QC results (method blanks and laboratory control samples).

There are often differences among laboratories in terms of style and format of reporting. Therefore, it is prudent to request in advance that the laboratory conform to the style and format approved by Caltrans as shown in ***Section 14***. The Caltrans data reviewer should verify that the laboratory data package includes the following items:

- ✓ A narrative which outlines any problems, corrections, anomalies, and conclusions.
- ✓ Sample identification numbers.
- ✓ Sample extraction and analysis dates.
- ✓ Reporting limits for all analyses reported.
- ✓ Results of method blanks.
- ✓ Results of matrix spike and matrix spike duplicate analyses, including calculation of percent recovered and relative percent differences.
- ✓ Results of laboratory control sample analyses.
- ✓ Results of external reference standard analyses.
- ✓ Surrogate spike and blank spike analysis results for organic constituents.

✓ A summary of acceptable QA/QC criteria (RPD, spike recovery) used by the laboratory.

Items missing from this list should be requested from the laboratory.

3. *Check for typographical errors and apparent incongruities*: The laboratory reports should be reviewed to identify results that are outside the range of normally observed values. Any type of suspect result or apparent typographical error should be verified with the laboratory. An example of a unique value would be if a dissolved iron concentration has been reported lower than 500 μg/L for every storm event monitored at one location and then a value of 2500 μg/L is reported in a later event. This reported concentration of 2500 μg/L should be verified with the laboratory for correctness.

   Besides apparent out-of-range values, the indicators of potential laboratory reporting problems include:

   - Significant lack of agreement between analytical results reported for laboratory duplicates or field duplicates.
   - Consistent reporting of dissolved metals results higher than total or total recoverable metals.
   - Unusual numbers of detected values reported for blank sample analyses.
   - Inconsistency in sample identification/labeling.

   If the laboratory confirms a problem with the reported concentration, the corrected or recalculated result should be issued in an amended report, or if necessary the sample should be re-analyzed. If laboratory results are changed or other corrections are made by the laboratory, an amended laboratory report should be issued to update the project records.

➢ DATA QUALITY EVALUATION

The data quality evaluation process is structured to provide systematic checks to ensure that the reported data accurately represent the concentrations of constituents actually present in stormwater. Data evaluation can often identify sources of contamination in the sampling and analytical processes, as well as detect deficiencies in the laboratory analyses or errors in data reporting. Data quality evaluation allows monitoring data to be used in the proper context with the appropriate level of confidence.

QA/QC parameters that should be reviewed are classified into the following categories:

✔ Reporting limits

- ✔ Holding times
- ✔ Contamination check results (method, field, trip, and equipment blanks)
- ✔ Precision analysis results (laboratory, field, and matrix spike duplicates)
- ✔ Accuracy analysis results (matrix spikes, surrogate spikes, laboratory control samples, and external reference standards)

Each of these QA/QC parameters should be compared to data quality acceptability criteria, inalso known as the project's data quality objectives (DQOs). The key steps that should be adhered to in the analysis of each of these QA/QC parameters are:

1. Compile a complete set of the QA/QC results for the parameter being analyzed.
2. Compare the laboratory QA/QC results to accepted criteria (DQOs).
3. Compile any out-of-range values and report them to the laboratory for verification.
4. Prepare a report that tabulates the success rate for each QA/QC parameter analyzed.

This process should be applied to each of the QA/QC parameters as discussed below.

Reporting Limits

Stormwater quality monitoring program DQOs should contain a list of acceptable reporting limits that the lab is contractually obligated to adhere to, except in special cases of insufficient sample volume or matrix interference problems. The reporting limits used should ensure a high probability of detection. , Table 12-1 provides recommended reporting limits for selected parameters.

Holding Times

Holding time represents the elapsed time between sample collection time and sample analysis time. Calculate the elapsed time between the sampling time and start of analysis, and compare this to the required holding time. For composite samples that are collected within 24-hours or less, the time of the final sample aliquot is considered the "sample collection time" for determining sample holding time. For analytes with critical holding times (≤48 hours), composite samples lasting longer than 24-hours require multiple bottle composite samples. Each of these composite samples should represent less than 24 hours of monitored flow, and subsamples from the composites should have been poured off and analyzed by the laboratory for those constituents with critical holding times (***see Section 12***). It is important to review sample holding times to ensure that analyses occurred within the time period that is generally accepted to maintain stable parameter concentrations. Table 12-1 contains the holding times for selected parameters. If holding times are exceeded, inaccurate concentrations or false negative results may be reported.

Samples that exceed their holding time prior to analysis are qualified as "estimated", or may be rejected depending on the circumstances.

Contamination

Blank samples are used to identify the presence and potential source of sample contamination and are typically one of four types:

1. ***Method blanks*** are prepared and analyzed by the laboratory to identify laboratory contamination.
2. ***Field blanks*** are prepared by the field crew during sampling events and submitted to the laboratory to identify contamination occurring during the collection or the transport of environmental samples.
3. ***Equipment blanks*** are prepared by the field crew or laboratory prior to the monitoring season and used to identify contamination coming from sampling equipment (tubing, pumps, bailers, etc.).
4. ***Trip blanks*** are prepared by the laboratory, carried in the field, and then submitted to the laboratory to identify contamination in the transport and handling of volatile organics samples.
5. ***Filter blanks*** are prepared by field crew or lab technicians performing the sample filtration. Blank water is filtered in the same manner and at the same time as other environmental samples. Filter blanks are used to identify contamination from the filter or filtering process.

If no contamination is present, all blanks should be reported as "not detected" or "non-detect" (e.g., constituent concentrations should not be detected above the reporting limit). Blanks reporting detected concentrations ("hits") should be noted in the written QA/QC data summary prepared by the data reviewer. In the case that the laboratory reports hits on method blanks, a detailed review of raw laboratory data and procedures should be requested from the laboratory to identify any data reporting errors or contamination sources. When other types of blanks are reported above the reporting limit, a similar review should be requested along with a complete review of field procedures and sample handling. Often times it will also be necessary to refer to historical equipment blank results, corresponding method blank results, and field notes to identify contamination sources. This is a corrective and documentative step that should be done as soon as the hits are reported.

If the blank concentration exceeds the laboratory reporting limit, values reported for each associated environmental sample must be evaluated according to USEPA guidelines for data evaluations of organics and metals (USEPA, 1991; USEPA, 1995) as indicated in Table 13-1.

Table 13-1. USEPA Guidelines for Data Evaluation

Step	*Environmental Sample*	*Phthalates and other common contaminants*	*Other Organics*	*Metals*
1.	Sample > 10X blank concentration	No action	No action	No action
2.	Sample < 10X blank concentration	Report associated environmental results as "non-detect" at the reported environmental concentration.	No action	Results considered an "upper limit" of the true concentration (note contamination in data quality evaluation narrative).
3.	Sample < 5X blank concentration	Report associated environmental results as "non-detect" at the reported environmental concentration.	Report associated environmental results as "non-detect" at the reported environmental concentration.	Report associated environmental results as "non-detect" at the reported environmental concentration.

Specifically, if the concentration in the environmental sample is less than five times the concentration in the associated blank, the environmental sample result is considered, for reporting purposes, "not-detected" *at the environmental sample result concentration* (phthalate and other common contaminant results are considered non-detect if the environmental sample result is less than ten times the blank concentration). The laboratory reports are not altered in any way. The qualifications resulting from the data evaluation are made to the evaluator's data set for reporting and analysis purposes to account for the apparent contamination problem. For example, if dissolved copper is reported by the laboratory at 4 □g/L and an associated blank concentration for dissolved copper is reported at 1 □g/L, data qualification would be necessary. In the data reporting field of the database (see ***Section 14***), the dissolved copper result would be reported as 4 □g/L*)*, the numerical qualifier would be reported as "<", the reporting limit would be left as reported by the laboratory, and the value qualifier would be reported as "U" ("not detected above the reported environmental concentration").

When reported environmental concentrations are greater than five times (ten times for phthalates) the reported blank "hit" concentration, the environmental result is reported unqualified at the laboratory-reported concentration. For example, if dissolved copper is reported at 11 □g/L and an associated blank concentration for dissolved copper is reported at 1 □g/L, the dissolved copper result would still be reported as 11 □g/L.

Precision

Duplicate samples provide a measure of the data precision (reproducibility) attributable to sampling and analytical procedures. Precision can be calculated as the relative percent difference (RPD) in the following manner:

$$RPD_i = \frac{2*|O_i \square D_i|}{(O_i + D_i)} *100\%$$

where:

RPD_i = Relative percent difference for compound i

O_i = Value of compound i in original sample

D_i = Value of compound i in duplicate sample

The resultant RPDs should be compared to the criteria specified in the project's DQOs. The DQO criteria shown in Table 13-2 below are based on the analytical method specifications and laboratory-supplied values. Project-specific DQOs should be developed with consideration to the analytical laboratory, the analytical method specifications, and the project objective. Table 13-2 should be used as a reference point as the least stringent set of DQO criteria for Caltrans monitoring projects.

Laboratory and Field Duplicates

Laboratory duplicates are samples that are split by the laboratory. Each half of the split sample is then analyzed and reported by the laboratory. A pair of field duplicates is two samples taken at the same time, in the same manner into two unique containers. Subsampling duplicates are two unique, ostensibly identical, samples taken from one composite bottle (see ***Section 10***). Laboratory duplicate results provide information regarding the variability inherent in the analytical process, and the reproducibility of analytical results. Field duplicate analysis measures both field and laboratory precision, therefore, it is expected that field duplicate results would exhibit greater variability than lab duplicate results. Subsampling duplicates are used as a substitute for field duplicates in some situations and are also an indicator of the variability introduced by the splitting process.

The RPDs resulting from analysis of both laboratory and field duplicates should be reviewed during data evaluation. Deviations from the specified limits, and the effect on reported data, should be noted and commented upon by the data reviewer. Laboratories typically have their own set of maximum allowable RPDs for laboratory duplicates based on their analytical history. In most cases these values are more stringent than those listed in Table 13-2. Note that the laboratory will only apply these maximum allowable RPDs to laboratory duplicates. In most cases field duplicates are submitted "blind" (with pseudonyms) to the laboratory.

Environmental samples associated with laboratory duplicate results greater than the maximum allowable RPD (when the numerical difference is greater than the reporting limit) are qualified as "J" (estimated). When the numerical difference is less than the RL, no qualification is necessary. Field duplicate RPDs are compared against the maximum allowable RPDs used for laboratory duplicates to identify any pattern of problems with reproducibility of results. Any significant pattern of RPD exceedances for field duplicates should be noted in the data report narrative.

Corrective action should be taken to address field or laboratory procedures that are introducing the imprecision of results. The data reviewer can apply "J" (estimated) qualifiers to any data points if there is clear evidence of a field or laboratory bias issue that is not related to contamination. (Qualification based on contamination is assessed with blank samples.)

Laboratories should provide justification for any laboratory duplicate samples with RPDs greater than the maximum allowable value. In some cases, the laboratory will track and document such exceedances, however; in most cases it is the job of the data reviewer to locate these out-of-range RPDs. When asked to justify excessive RPD values for field duplicates, laboratories most often will cite sample splitting problems in the field. Irregularities should be included in the data reviewer's summary, and the laboratory's response should be retained to document laboratory performance, and to track potential chronic problems with laboratory analysis and reporting.

Accuracy

Accuracy is defined as the degree of agreement of a measurement to an accepted reference or true value. Accuracy is measured as the percent recovery (%R) of spike compound(s). Percent recovery of spikes is calculated in the following manner:

$$\%R = 100\% * [(C_s - C) / S]$$

where:

%R = percent recovery

C_s = spiked sample concentration

C = sample concentration for spiked matrices

S = concentration equivalent of spike added

Accuracy (%R) criteria for spike recoveries should be compared with the limits specified in the project DQOs. A list of typical acceptable recoveries is shown in Table 13-2. As in the case of maximum allowable RPDs, laboratories develop acceptable criteria for an allowable range of recovery percentages that may differ from the values listed in Table 13-2.

Percent recoveries should be reviewed during data evaluation, and deviations from the specified limits should be noted in the data reviewer's summary. Justification for out of range recoveries should be provided by the laboratory along with the laboratory reports, or in response to the data reviewer's summary.

Laboratory Matrix Spike and Matrix Spike Duplicate Samples

Evaluation of analytical accuracy and precision in environmental sample matrices is obtained through the analysis of laboratory matrix spike (MS) and matrix spike duplicate (MSD) samples. A matrix spike is an environmental sample that is spiked with a known amount of the constituent being analyzed. A percent recovery can be calculated from the results of the spike analysis. A MSD is a duplicate of this analysis that is performed as a check on matrix recovery precision. MS and MSD results are used together to calculate RPD as with the duplicate samples. When MS/MSD results (%R and RPD) are outside the project specifications, as listed in Table 13-2, the associated environmental samples are qualified as "estimates due to matrix interference". Surrogate standards are added to all environmental and QC samples tested by gas chromatography (GC) or gas chromatography-mass spectroscopy (GC-MS). Surrogates are non-target compounds that are analytically similar to the analytes of interest. The surrogate compounds are spiked into the sample prior to the extraction or analysis. Surrogate recoveries are evaluated with respect to the laboratory acceptance criteria to provide information on the extraction efficiency of every sample.

External Reference Standards

External reference standards (ERS) are artificial certified standards prepared by an external agency and added to a batch of samples. ERS's are not required for every batch of samples, and are often only run quarterly by laboratories. Some laboratories use ERS's in place of laboratory control spikes with every batch of samples. ERS results are assessed the same as laboratory control spikes for qualification purposes (see below). The external reference standards are evaluated in terms of accuracy, expressed as the percent recovery (comparison of the laboratory results with the certified concentrations). The laboratory should report all out-of-range values along with the environmental sample results. ERS values are qualified as biased high" when the ERS recovery exceeds the acceptable recovery range and "biased low" when the ERS recovery is smaller than the recovery range.

Laboratory Control Samples

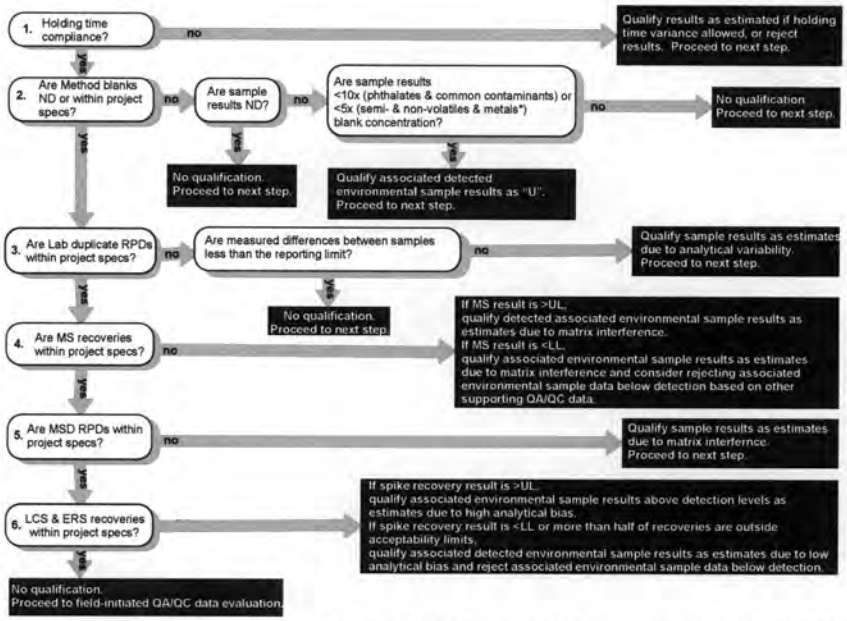
LCS analysis is another batch check of recovery of a known standard solution that is used to assess the accuracy of the entire recovery process. LCSs are much like ERS's except that a certified standard is not necessarily used with LCSs, and the sample is prepared internally by the laboratory so the cost associated with preparing a LCS sample is much lower than the cost of ERS preparation. LCSs are reviewed for percent recovery within

control limits provided by the laboratory. LCS out-of-range values are treated in the same manner as ERS out-of-range values. Because LCS and ERS analysis both check the entire recovery process, any irregularity in these results supersedes other accuracy-related qualification. Data are rejected due to low LCS recoveries when the associated environmental result is below the reporting limit.

A flow chart of the data evaluation process, presented on the following pages as Figures 13-1 (lab-initiated QA/QC samples) and 13-2 (field-initiated QA/QC), can be used as a general guideline for data evaluation. Boxes shaded black in Figures 13-1 and 13-2 designate final results of the QA/QC evaluation.

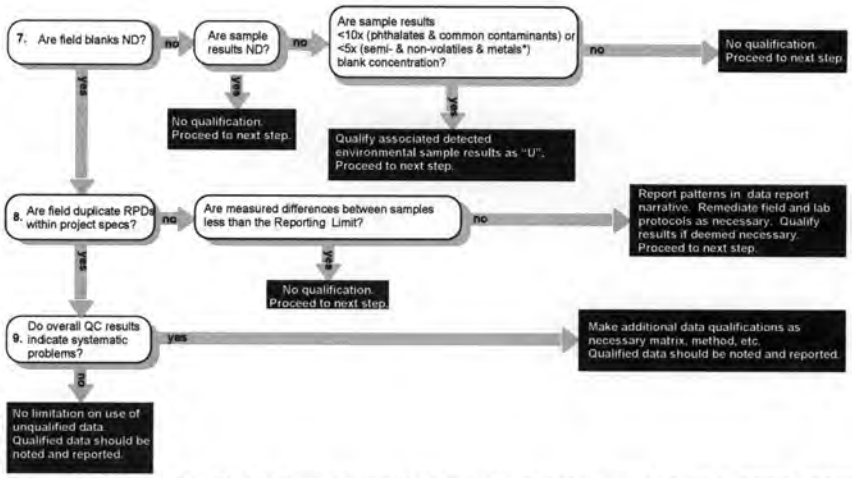
Table 13-2. Typical Control Limits for Precision and Accuracy for Analytical Constituents

Analyte	*EPA Method Number or Standard Method*	*Maximum Allowable RPD*	*Recovery Upper Limit*	*Recovery Lower Limit*
Conventionals				
BOD	405.1; SM 5210B	20%	80%	120%
COD	410.1; 410.4; SM 5220C; SM 5220D	20%	80%	120%
Hardness	130.2; 130.1; SM 2340B	20%	80%	120%
pH	150.1	20%	NA	NA
TOC/DOC	415.1	15%	85%	115%
TDS	160.1	20%	80%	120%
TSS	160.2	20%	80%	120%
Turbidity	180.1	20%	NA	NA
Nutrients				
NH3-N	350.2; 350.3	20%	80%	120%
NO3-N	300.0	20%	80%	120%
NO2-N	300.0	20%	80%	120%
NO3/NO2-N	353.2	20%	80%	120%
P	365.2	20%	80%	120%
Ortho-P	365.2; 365.3	20%	80%	120%
TKN	351.3	20%	80%	120%
Metals				
Ag	272.2; 200.8	20%	75%	125%
Al	200.9; 200.8	20%	75%	125%
Cd	213.2; 200.8	20%	75%	125%
Cr	218.2; 200.8	20%	75%	125%
Cu	220.2; 200.8	20%	75%	125%
Ni	249.2; 200.8	20%	75%	125%
Pb	239.2; 200.8	20%	75%	125%
Zn	289.2; 200.8	20%	75%	125%
As	206.3; 200.8	20%	75%	125%
Fe	200.9; SM 3500-Fe B	20%	75%	125%
Se	200.9; 270.3; 200.8	20%	75%	125%
Hg	1631	21%	79%	121%
Total Petroleum Hydrocarbons				
TPH (gasoline)	8015b	21%	45%	129%
TPH (diesel)		21%	45%	129%
TPH (motor oil)		21%	45%	129%
Oil & Grease	1664	18%	79%	114%
Pesticides and Herbicides				
Glyphosate	547	30%	70%	130%
OP Pesticides (esp. diazinon and chlorpyrifos)	8141; ELISA	25%	see method for constituent specific	
OC Pesticides	8081	25%		
Chlorinated Herbicides	8150; 8151	25%		
Carbamate Pesticides	8321	25%		
Miscellaneous Organic Constituents				
Base/Neutrals and Acids	625; 8270	30% to 50% (analyte dependent)	see method for constituent specific	
PAHs	8310			
Purgeables	624; 8260	20%		
Purgeable Halocarbons	601	30%	see method, Table 2	
Purgeable Aromatics	602	20%	see method for constituent specific	
Miscellaneous Constituents				
Cyanide	335.2	20%	75	125
Bacteriological				
Fecal Coliform	SM 9221E	-	-	-
Total Coliform	SM 9221B	-	-	-



*Environmental results between 5x and 10x the blank concentration are qualified as "an upper limit on the true concentration" and the data user should be cautioned.

Figure 13-1. Technical Data Evaluation for Lab-Initiated QA/QC Samples



*Environmental results between 5x and 10x the blank concentration are qualified as "an upper limit on the true concentration" and the data user should be cautioned.

Figure 13-2. Technical Data Evaluation for Field-Initiated QA/QC Samples

Attachment D
Water Quality Objectives

Constituent	Units	Basin Plan		CTR			EPA 304(a) criteria
		Min non-MUN	Min MUN	Min non-MUN fresh	Min non-MUN salt	Min MUN fresh	
1,1,1-Trichloroethane	µg/L		200				
1,1,2,2-Tetrachloroethane	µg/L		1	11	11	0.17	
1,1,2-Trichloro-1,2,2-Trifluoroethane	µg/L		1200				
1,1,2-Trichloroethane	µg/L		5	42	42	0.6	
1,1-Dichloroethane	µg/L		5				
1,1-Dichloroethylene	µg/L		6	3.2	3.2	0.057	
1,2,4-Trichlorobenzene	µg/L		70				
1,2-Dibromo-3-Chloropropane	µg/L		0.2				
1,2-Dichlorobenzene	µg/L		600	17000	17000	2700	
1,2-Dichloroethane	µg/L		0.5	99	99	0.38	
1,2-Dichloropropane	µg/L		5	39	39	0.52	
1,2-Diphenylhydrazine	µg/L			0.54	0.54	0.04	
1,2-Trans-Dichloroethylene	µg/L		10	140000	140000	700	
1,3-Dichlorobenzene	µg/L			2600	2600	400	
1,3-Dichloropropylene	µg/L		0.5	1700	1700	10	
1,4-Dichlorobenzene	µg/L		5	2600	2600	400	
2,3,7,8-TCDD (Dioxin)	pg/L		30	0.014	0.014	0.013	
2,4,5-TP	µg/L		50				
2,4,6-Trichlorophenol	µg/L			6.5	6.5	2.1	
2,4-D	µg/L		70				
2,4-Dichlorophenol	µg/L			790	790	93	
2,4-Dimethylphenol	µg/L			2300	2300	540	
2,4-Dinitrophenol	µg/L			14000	14000	70	
2,4-Dinitrotoluene	µg/L			9.1	9.1	0.11	
2-Chloronaphthalene	µg/L			4300	4300	1700	
2-Chlorophenol	µg/L			400	400	120	
2-Methyl-4,6-Dinitrophenol	µg/L			765	765	13.4	
3,3'-Dichlorobenzidine	µg/L			0.077	0.077	0.04	
4,4'-DDD	µg/L			0.00084	0.00084	0.00083	
4,4'-DDE	µg/L			0.00059	0.00059	0.00059	
4,4'-DDT	µg/L			0.00059	0.00059	0.00059	0.001 G, ii
Acenaphthene	µg/L			2700	2700	1200	
Acrolein	µg/L			780	780	320	3ug/L
Acrylonitrile	µg/L			0.66	0.66	0.059	
Alachlor	µg/L		2				
Aldrin	µg/L			0.00014	0.00014	0.00013	0
alpha-BHC	µg/L			0.013	0.013	0.0039	
alpha-Endosulfan	µg/L			0.056	0.0087	0.056	0.056 G, Y
Aluminum	µg/L		1000				
Ammonia (Total) as N	mg/L	0.035	0.035				
Ammonia as N	mg/L	2.23	2.23				
Anthracene	µg/L			110000	110000	9600	
Antimony	µg/L		6	4300	4300	14	
Aroclors	µg/L	0.00007	0.00007	0.00017	0.00017	0.00017	
Arsenic	µg/L		50	150	36	150	150 A, D
Asbestos	MFL		7	0	0	7	
Atrazine	µg/L		3				
Barium	µg/L		1000				
Bentazon	µg/L		18				
Benzene	µg/L		1	71	71	1.2	
Benzidine	µg/L			0.00054	0.00054	0.00012	
Benzo(a)Anthracene	µg/L			0.049	0.049	0.0044	
Benzo(a)Pyrene	µg/L		0.2	0.049	0.049	0.0044	
Benzo(b)Fluoranthene	µg/L			0.049	0.049	0.0044	
Benzo(k)Fluoranthene	µg/L			0.049	0.049	0.0044	
Beryllium	µg/L		4	0	0	0	
beta-BHC	µg/L			0.046	0.046	0.014	
beta-Endosulfan	µg/L			0.056	0.0087	0.056	0.056 G, Y
Bioaccumulation							
Biostimulatory Substances							
Bis(2-chloroethyl)Ether	µg/L			1.4	1.4	0.031	
Bis(2-chloroisopropyl)Ether	µg/L			170000	170000	1400	
Bis(2-ethylhexyl)Adipate	µg/L		400				
Bis(2-ethylhexyl)Phthalate	µg/L		4	5.9	5.9	1.8	
BOD	mg/L						
Boron	mg/L						0
Bromoform	µg/L			360	360	4.3	
Butylbenzyl Phthalate	µg/L			5200	5200	3000	
Cadmium	µg/L		5	2.2	9.3	2.2	0.25 D, E
Carbofuran	µg/L		18				
Carbon Tetrachloride	µg/L		0.5	4.4	4.4	0.25	
Chemical Constituents							
Chlordanes	µg/L		0.1	0.00059	0.00059	0.00057	
Chloride	mg/L						230000
Chlorine (Total Residual)	µg/L		100				

Constituent	Units	Basin Plan		CTR			EPA 304(a) criteria
		Min non-MUN	Min MUN	Min non-MUN fresh	Min non-MUN salt	Min MUN fresh	
Chlorobenzene	µg/L		70	21000	21000	680	
Chlorodibromomethane	µg/L			34	34	0.41	
Chromium	µg/L		50				
Chromium (III)	µg/L			180		180	74 D, E
Chromium (VI)	µg/L			11	50	11	11 D
Chrysene	µg/L			0.049	0.049	0.0044	
cis-1,2-Dichloroethylene	µg/L		6				
Color							0
Copper	µg/L			9	3.1	9	4.8 D, cc
Cyanide	µg/L		200	5.2	1	5.2	5.2 Q
Dalapon	µg/L		200				
Dibenzo(a,h)Anthracene	µg/L			0.049	0.049	0.0044	
Dichlorobromomethane	µg/L			46	46	0.56	
Dieldrin	µg/L			0.00014	0.00014	0.00014	0.056 O
Diethyl Phthalate	µg/L			120000	120000	23000	
Dimethyl Phthalate	µg/L			2900000	2900000	313000	
Di-n-Butyl Phthalate	µg/L			12000	12000	2700	
Dinoseb	µg/L		7				
Diquat	µg/L		20				
Dissolved Oxygen	mg/L	5	5				
E. Coli	MPN/100mL	126	126				
Endosulfan Sulfate	µg/L			240	240	110	
Endothall	µg/L		100				
Endrin	µg/L		2	0.036	0.0023	0.036	0.036 O
Endrin Aldehyde	µg/L			0.81	0.81	0.76	
Enterococcus	MPN/100mL	35	35				
Ethylbenzene	µg/L		700	29000	29000	3100	
Ethylene Dibromide	µg/L		0.05				
Exotic Vegetation							
Fecal Coliform	MPN/100mL	200	200				
Floating Material							
Fluoranthene	µg/L			370	370	300	
Fluorene	µg/L			14000	14000	1300	
Fluoride	mg/L		2				
gamma-BHC (Lindane)	µg/L		0.2	0.063	0.063	0.019	0
Glyphosate	µg/L		700				
Gross Alpha particle activity	pCi/L		15				
Gross Beta particle activity	pCi/L		50				
Habitat							
Heptachlor	µg/L		0.01	0.00021	0.00021	0.00021	0.0038 G
Heptachlor Epoxide	µg/L		0.01	0.00011	0.00011	0.0001	0.0038 G, V
Hexachlorobenzene	µg/L		1	0.00077	0.00077	0.00075	
Hexachlorobutadiene	µg/L			50	50	0.44	
Hexachlorocyclopentadiene	µg/L		50	17000	17000	240	
Hexachloroethane	µg/L			8.9	8.9	1.9	
Hydrology							
Indeno(1,2,3-cd)Pyrene	µg/L			0.049	0.049	0.0044	
Isophorone	µg/L			600	600	8.4	
Lead	µg/L			2.5	8.1	2.5	2.5 D, E
MBAS	µg/L		500				
Mercury	µg/L		2	0.051	0.051	0.05	0.77 D, hh
Methoxychlor	µg/L		40				0.03 C
Methyl Bromide	µg/L			4000	4000	48	
Methylene Chloride	µg/L		5	1600	1600	4.7	
Molinate	µg/L		20				
Nickel	µg/L		100	52	8.2	52	52 D, E
Nitrate as N	mg/L		10				
Nitrate as NO3	mg/L		45				
Nitrite as N	mg/L		1				
Nitrobenzene	µg/L			1900	1900	17	
Nitrogen (NO3-N+NO2-N)	mg/L		10				
N-Nitrosodimethylamine	µg/L			8.1	8.1	0.00069	
N-Nitrosodi-n-Propylamine	µg/L			1.4	1.4	0.005	
N-Nitrosodiphenylamine	µg/L			16	16	5	
Oil + Grease	mg/L						
Oxamyl	µg/L		200				
PCBs	µg/L			0.00017	0.00017	0.00017	
Pentachlorophenol	µg/L		1	8.2	7.9	0.28	15 F
pH	pH Units	6.5	6.5				6.5 – 9 C
Phenol	µg/L			4600000	4600000	21000	
Picloram	µg/L		500				
Pyrene	µg/L			11000	11000	960	
Radioactive Substances	pCi/L						
Radium-226 + Radium-228	pCi/L		5				
Ratio Fecal/Total Coliform							
Selenium	µg/L		50	5	71	5	5.0 R

Constituent	Units	Basin Plan		CTR			EPA 304(a) criteria
		Min non-MUN	Min MUN	Min non-MUN fresh	Min non-MUN salt	Min MUN fresh	
Silver	µg/L			3.4	1.9	3.4	0
Simazine	µg/L		4				
Strontium-90	pCi/L		8				
Styrene	µg/L		100				
Sulfate	mg/L						
Taste and Odor							
TDS	mg/L						
Temperature	°C	26.7	26.7				0
Tetrachloroethylene	µg/L		5	8.85	8.85	0.8	
Thallium	µg/L		2	6.3	6.3	1.7	
Thiobencarb	µg/L		70				
Toluene	µg/L		150	200000	200000	6800	
Total Coliform	MPN/100mL	70	70				
Total Settleable Solids							
Toxaphene	µg/L		3	0.0002	0.0002	0.0002	0.0002
Toxicity							
Trichloroethylene	µg/L		5	81	81	2.7	
Trichlorofluoromethane	µg/L		150				
Tritium	pCi/L		20000				
TSS	mg/L						
Turbidity	NTU						
Uranium	pCi/L		20				
Vinyl Chloride	µg/L		0.5	525	525	2	
Xylenes (Total)	µg/L		1750				
Zinc	µg/L			120	81	120	120 D, E

Attachment E
Stormwater Outfall Selection

E-1 STORMWATER OUTFALL SITE SELECTION

The primary criterion cited in the MRP for selection of monitoring sites for the stormwater outfall monitoring program is that the sites are representative of the range of land uses in the area. An additional stated criterion for site selection is the ability to accurately measure flows for pollutant loads characterization. Flow measurement is easily addressed by physical assessment of the site conditions and consideration of access to the site. The primary criterion in the MRP implies an assessment of variation of land uses within the WMA, potential variation in water quality issues for different HUC-12 drainages, and geographic variation in factors influencing runoff quality.

The Permit-defined specific objectives for the stormwater outfall monitoring are as follows:.

- Determine the quality of discharge relative to municipal action levels
- Determine whether the discharge is in compliance with WQBELs derived from TMDL WLAs
- Determine whether a discharge causes or contributes to exceedances of receiving water limitations (RWL).

The default approach in the MRP to achieving adequate representation is to select one major outfall in each hydrological unit (HUC–12) within each individual Permittee's jurisdiction. Consequently, the minimum number of outfalls required for monitoring under the default approach is equal to the total number of unique combinations of HUC-12s and jurisdictions. The default approach is geared toward ensuring adequate accountability and representation if the Permittees monitor as individual entities, but would result in monitoring more outfall discharges than needed for efforts coordinated among the USGR EWMP Group. For the San Gabriel River WMA, there would be 16 stormwater outfalls using the default approach.

As an alternative to the MRP's default monitoring approach, the EWMP Group is proposing to monitor one major outfall for each Group Member in the WMA. The resulting data would be considered representative of Group Members' discharge in their respective jurisdictions, would provide representative results needed to meet all three specific monitoring objectives, and would also provide the basis for stormwater management decisions for all Group Members. The rationale supporting the EWMP Group's alternative approach follows.

E-2 REPRESENTATIVENESS OF SELECTED OUTFALLS

The principal criterion for the site selection for stormwater outfall monitoring is that sites are representative of the range of land uses in the WMA. The drainages within the EWMP Group's WMA are comprised primarily of residential, commercial, and industrial land uses, with minimal percentages of agriculture and undeveloped open space. The six proposed outfalls were selected specifically to characterize runoff from drainages that are representative of the mix of these primary land uses in the WMA, and to minimize contributions from other land uses. Land use summaries for the USGR EWMP Group are listed in **Table E-1**. Pictures and drainage area maps for the selected stormwater outfall sites can be found in **Section B-2**.

Table E-1.
Relative Land Use Area within Drain Area to Stormwater Outfall Sites

Group Member	Area	Percent of Land Area[1]			
		Res	Com/Ind	Ag/Nur	Open
Baldwin Park	Jurisdiction	66	31	2	1
	BI 1701-Line A	75	24	0	1
Covina	Jurisdiction	65	32	<1	2
	BI 1123	66	31	0	3
Glendora	Jurisdiction	70	20	1	8
	BI 3701-Line C	90	8	1	1
Industry	Jurisdiction	<1	91	3	6
	BI 4301-Industry	5	92	0	3
La Puente	Jurisdiction	72	25	<1	3
	BI 4801-Line B	64	26	0	10
County of Los Angeles	Jurisdiction	68	20	2	11
	PD 2425	71	28	0	1

1 Land use classifications include: residential (res), commercial and industrial (com/ind), agriculture and nursery (ag/nur), and open space (open). Totals correspond to the percent of the MS4 area considered in the EWMP.

E-3 STORMWATER MONITORING DATA VARIABILITY

The inter-event variability (e.g., for different storm events) in stormwater discharge quality is much greater than between individual outfall drainages or major land uses. Based on stormwater monitoring results from other programs, discharge quality from drainages with similar mixed land uses is not substantially different, and it will be impossible to distinguish statistically between drainages with a reasonable amount of monitoring because of the high variability in discharge quality for each site. The statistical power analysis based on the range of typical stormwater discharge quality distributions and the number of sample collected for the permit term, 15 samples per site, is enumerated in **Table E-2**. For example, the analysis results in an average difference between sites would need to be greater than 62% to be detected with 95% confidence and 80% power for a pollutant with a fairly "typical" coefficient of variance (COV) of 0.66. COVs for stormwater discharge quality are generally greater than 0.2 and commonly exceed 1.0. Programmatically meaningful differences (i.e., differences between sites as small as 20%) would not be expected to be detected for most constituents over the time frame of the permit.

Given the high variability typical of stormwater pollutant levels, and with only a few storm events that can be collected per year, it will not be possible to make *meaningful* distinctions between drainages, either within land use types, across land use types, or between jurisdictions. Management implementation by the Permittees is also expected to be relatively consistent throughout the WMA, so additional focus on geographic differences is not necessary. This means that only a handful of sites are needed to adequately characterize residential land use discharge quality within the WMA. Consequently, sampling more than a few representative sites

is unlikely to significantly improve characterization of runoff quality, or to better inform the EWMP Group's management decisions.

Realistically achievable changes in stormwater runoff quality or loads (e.g., 20–50% reductions) are statistically demonstrable only over relatively long periods of time (≥10 years). This is also due to the high variability between events and the relatively few number of events that can be sampled each season, and additional monitoring sites will do little to improve the statistical power of such trend analysis within the permit time frame compared to longer periods of evaluation. This also supports the need to assess management effectiveness and compliance based primarily on successful implementation actions rather than explicit demonstration of improvements in runoff quality.

E-4 Recommendation for Stormwater Outfall Site Selection

Based on the evaluations above, the EWMP Group's proposed CIMP approach to monitor one outfall for each Group Member in the WMA will provide the representative data needed to meet the specific permit objectives for stormwater outfall monitoring and support management decisions of the EWMP Group. Additional monitoring sites within six Group Member jurisdictions will not provide significant improvements in representation or characterization of discharge quality, or additional information for discharge quality management.

Table E-2.
Detectible Significant Percent Differences between Sites

Sample Size = 15, alpha = 0.05		
COV	**power=0.8**	**power 0.9**
0.20	21%	24%
0.31	32%	36%
0.42	42%	48%
0.53	52%	59%
0.66	62%	70%
0.80	71%	81%
0.95	80%	91%
1.12	89%	100%
1.31	97%	109%

Attachment F
Stormwater Outfall Sites (Including Potential Alternates)

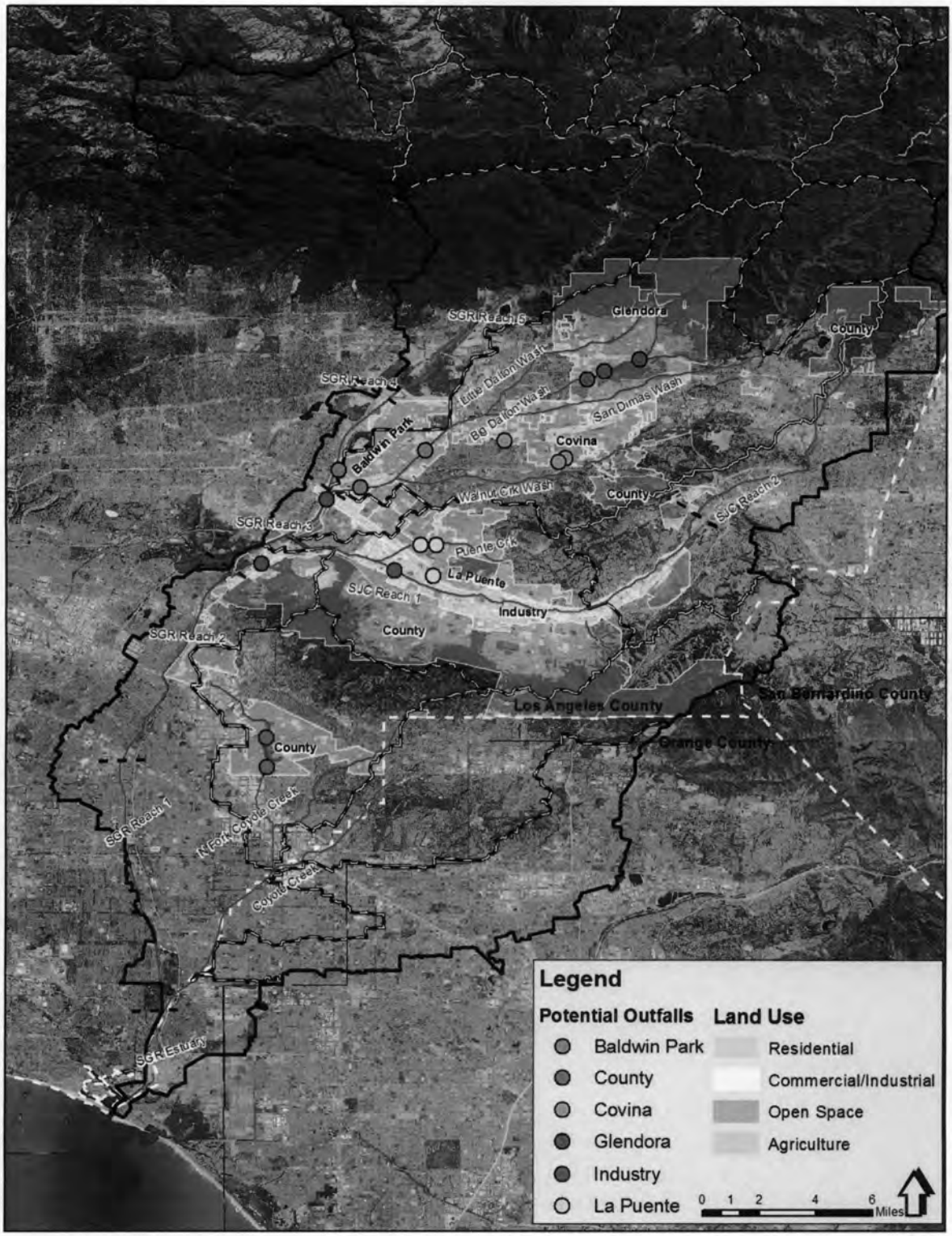

SGR Reach 5
Glendora
County
SGR Reach 4
Little Dalton Wash
Big Dalton Wash
San Dimas Wash
Baldwin Park
Covina
Walnut Crk Wash
County
SJC Reach 2
SGR Reach 3
Puente Crk
La Puente
SJC Reach 1
Industry
County
SGR Reach 2
Los Angeles County
San Bernardino County
Orange County
County
SGR Reach 1
N Fork Coyote Creek
Coyote Creek
SGR Estuary
Legend
Potential Outfalls
Baldwin Park
County
Covina
Glendora
Industry
La Puente
Land Use
Residential
Commercial/Industrial
Open Space
Agriculture
0 1 2 4 6 Miles

Table F-1. Land use percentages for potential alternate outfalls

	Res	Com/Ind	Ag	Open
Baldwin Park				
BI 0604 - Line C	61%	37%	0%	2%
BI 9705	84%	13%	3%	0%
County				
BI 0531 - U2 Line B[1]	63%	35%	0%	3%
BI 0531 - U2 Line B[2]	64%	33%	0%	3%
Covina				
MTD 0105	74%	22%	0%	4%
BI 0612	59%	40%	0%	1%
Glendora				
BI 0517 - Line B	74%	25%	0%	1%
BI 0517 - Line A[3]	55%	44%	0%	2%
BI 0517 - Line A[4]	56%	43%	0%	2%
Industry				
PD 0198[5]	0%	99%	0%	1%
Pellissier Place Drn[6]	0.0%	99.9%	0.1%	0.0%
La Puente				
BI 4801 - La Puente - Line A	73%	27%	0%	0%
RDD 0291	97%	0%	0%	3%

1. Contains 7.03 acres of commercial/industrial areas and 0.83 acres of residential areas from La Mirada
2. Does not include land uses from La Mirada
3. Contains 7.9 acres of Caltrans land use
4. Does not contain the Caltrans land use
5. Contains 0.63 acres of Caltrans land use, does not change percentages
6. Contains 2.7 acres of Caltrans land use, does not change percentages

F-1 City of Baldwin Park Potential Outfalls

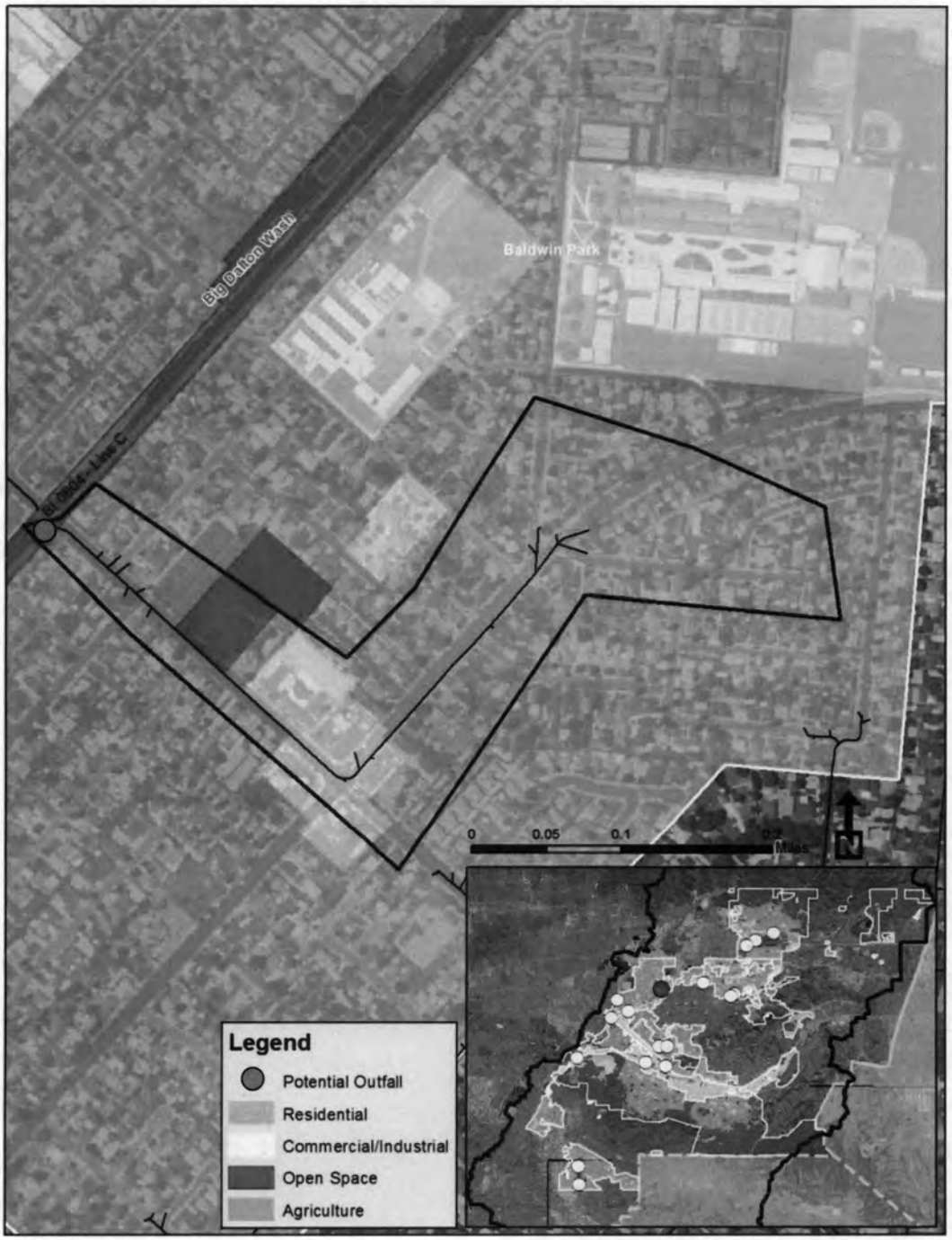
Table 1. Potential Wet Weather Outfall Monitoring Sites – City of Baldwin Park

Water Body	Jurisdiction	Drain Name	Size	Shape	Material	Lat	Lon
Big Dalton Wash	Baldwin Park	BI 0604 - Line C	66"	Round	Reinforced Conc. Pipe	34.081651	-117.955909
Walnut Creek	Baldwin Park	BI 1701 - Line A	126"	Square or Rectangle	Reinforced Conc. Box	34.062694	-117.988920
SGR Reach 4	Baldwin Park	BI 9705	96"	Square or Rectangle	Reinforced Conc. Box	34.071568	-118.00019

F-1.1 BI 0604 - Line C

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
Big Dalton Wash	Baldwin Park	BI 0604 - Line C	66 inches	SW Outfall	34.081651	-117.955909

General Description: New SW outfall monitoring site discharging to Big Dalton Wash downstream of Pacific Ave.

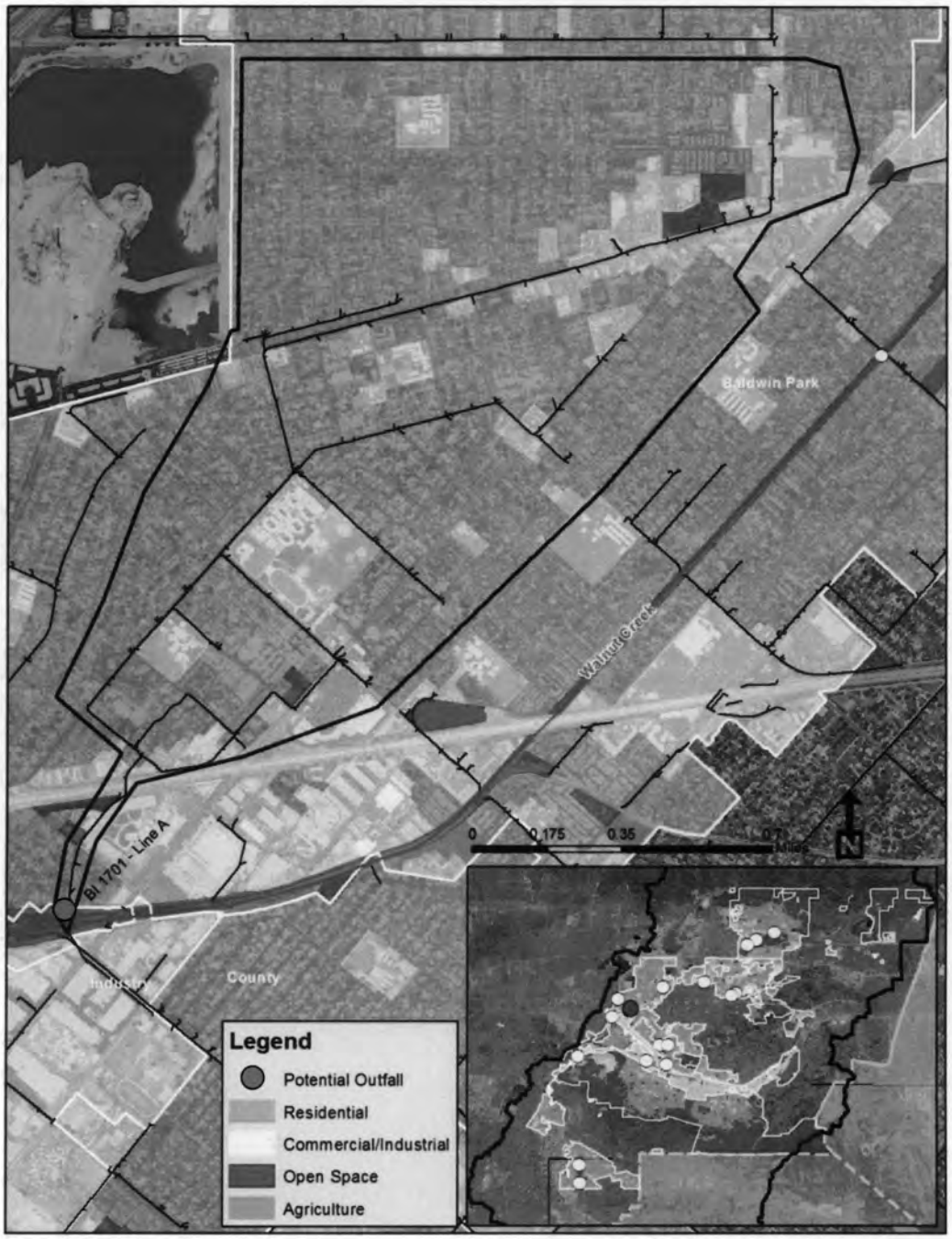


BI 0604 – Line C Aerial View

F-1.2 BI 1791 – Line A

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
Walnut Creek	Baldwin Park	BI 1701 - Line A	126 inches	SW Outfall	34.062694	-117.988920

General Description: New SW outfall monitoring site discharging to Walnut Creek downstream of Baldwin Park Blvd.

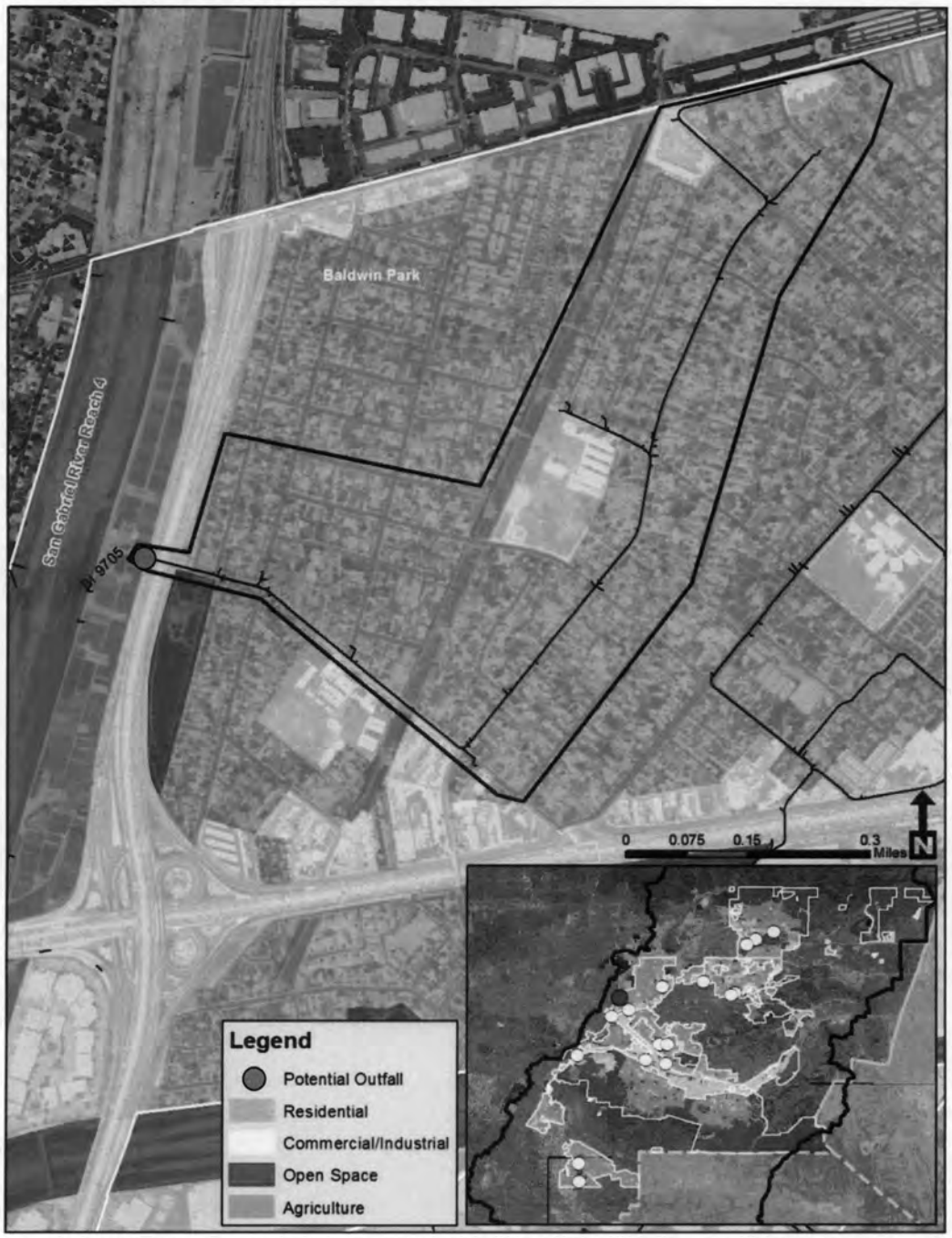


BI 1701 – Line A Aerial View

F-1.3 BI 975

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
SGR Reach 4	Baldwin Park	BI 9705	96 inches	SW Outfall	34.071568	-118.00019

General Description: New SW outfall monitoring site discharging to San Gabriel River Reach 4 downstream of the 605 Freeway.



BI 9705 Aerial View

F-2 Los Angeles County Potential Outfall Sites

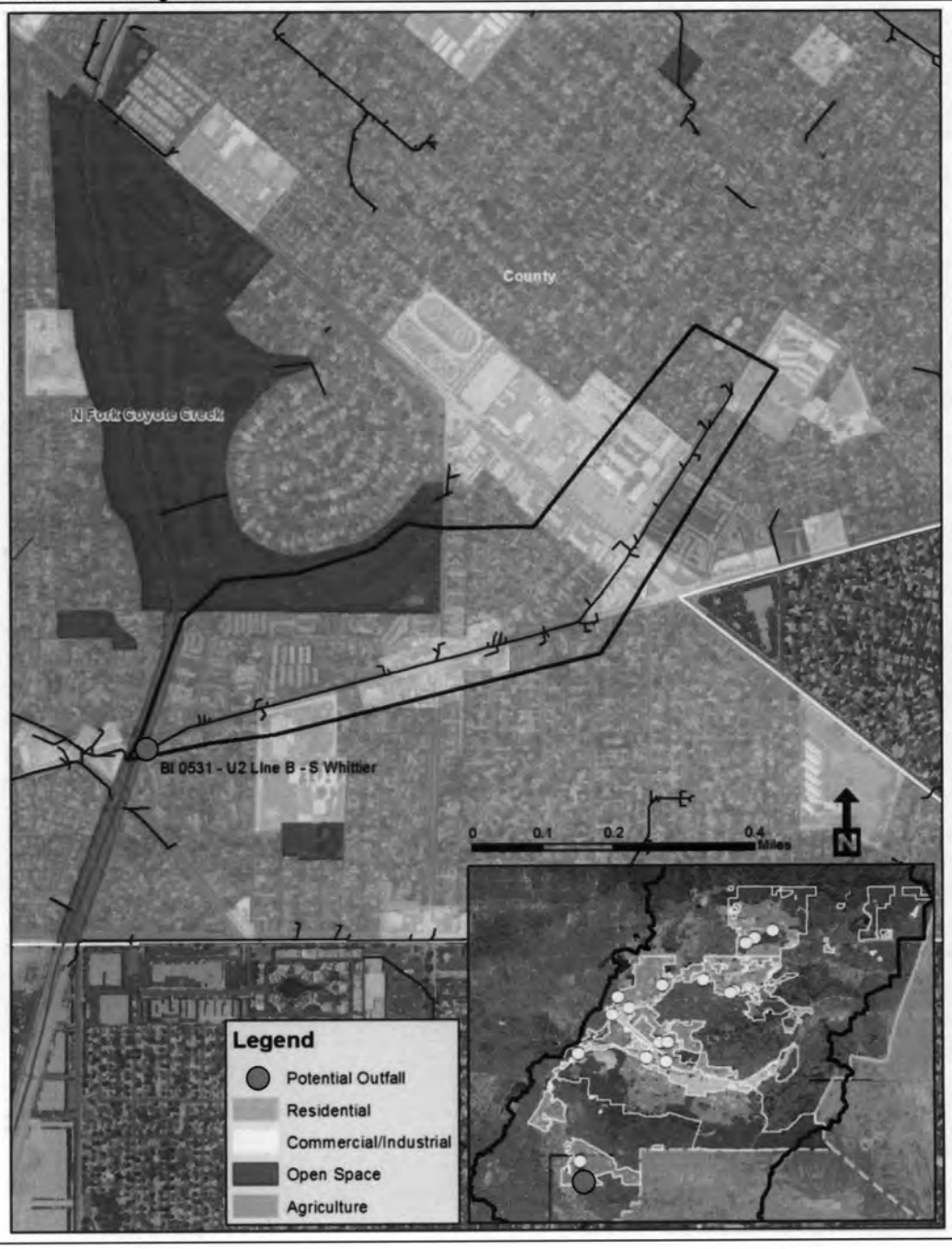
Table 2. Potential Wet Weather Outfall Monitoring Sites – Los Angeles County

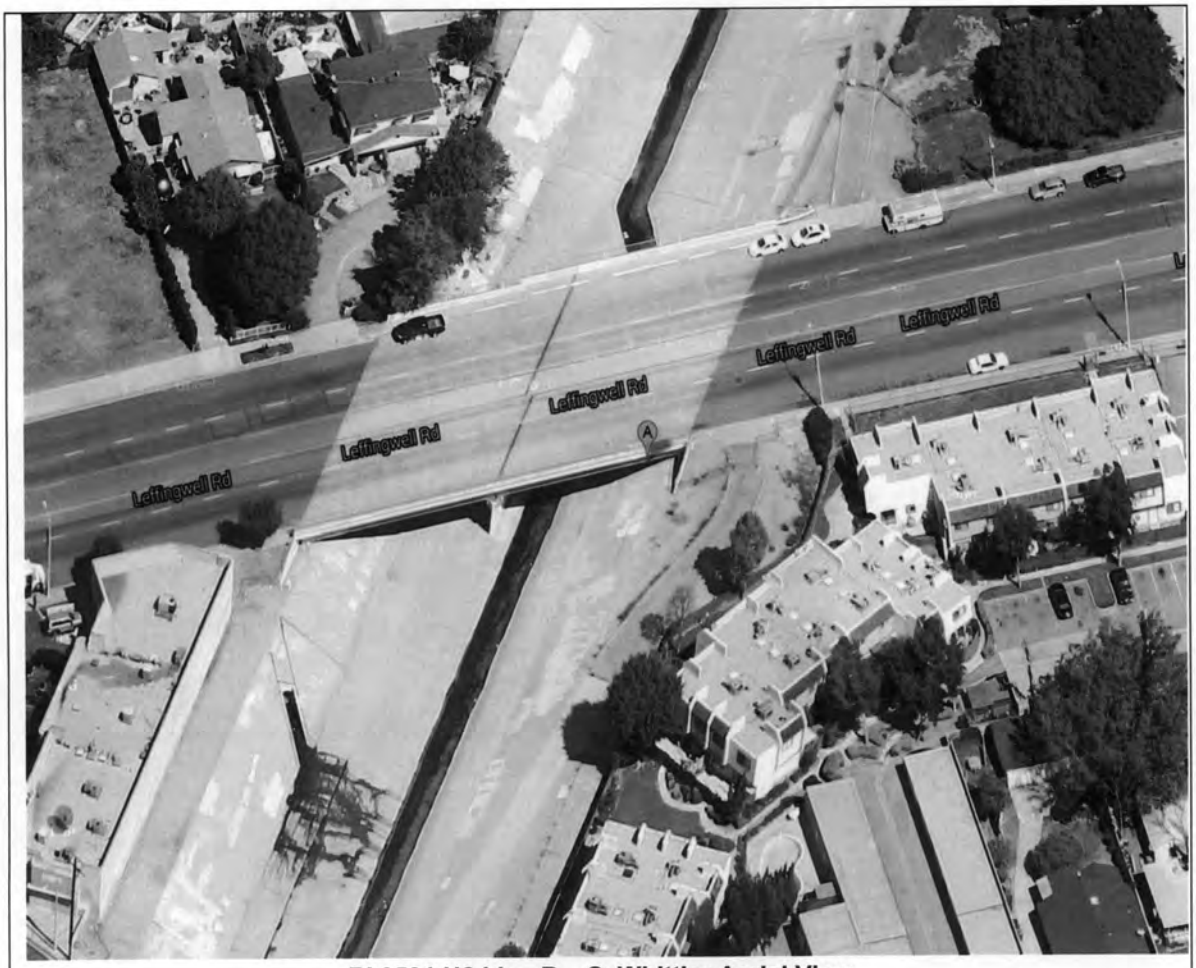
Water Body	Jurisdiction	Drain Name	Size	Shape	Material	Lat	Lon
N Fork Coyote Creek	County	BI 0531 - U2 Line B - S. Whittier	36"	Round	Reinforced Conc. Pipe	33.921058	-118.036397
N Fork Coyote Creek	County	PD 2425 - Sorenson Ave Drain	36"	Square or Rectangle	Reinforced Conc. Box	33.936115	-118.036951

F-2.1 BI 0531 – U2 Line B, South Whittier

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
N. Fork Coyote Creek	County	BI 0531 - U2 Line B - S. Whittier	36 inches	SW Outfall	33.921058	-118.036397

General Description: New SW outfall monitoring site discharging to N. Fork of Coyote Creek downstream of Leffingwell Rd.



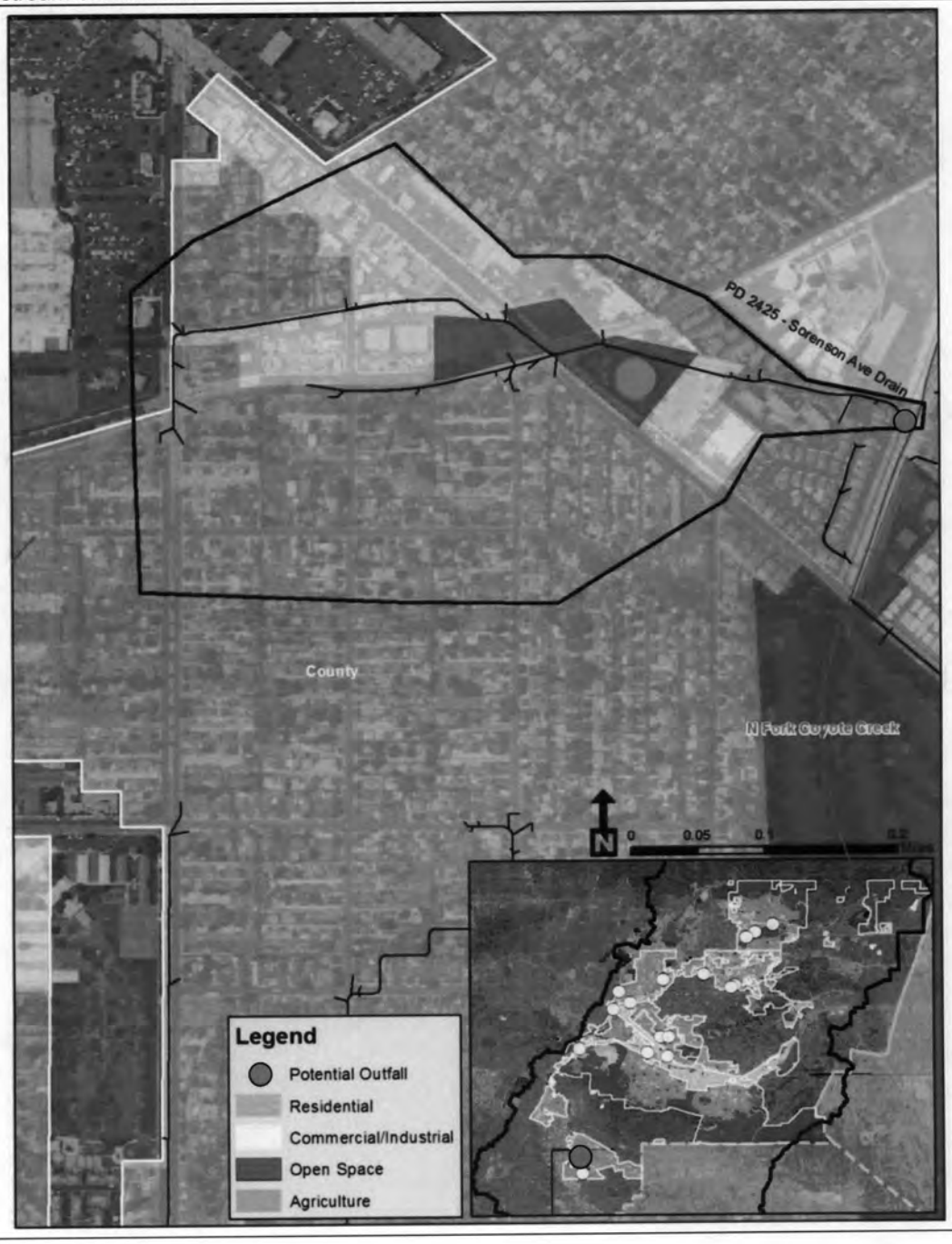


BI 0531 U2 Line B – S. Whittier Aerial View

F-2.2 PD 2425 – Sorenson Ave Drain

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
N. Fork Coyote Creek	County	PD 2425 - Sorenson Ave Drain	36 inches	SW Outfall	33.936115	-118.036951

General Description: New SW outfall monitoring site discharging to N. Fork Coyote Creek downstream of Mills Ave.



PD 2425 – Sorenson Ave Drain Aerial View

F-3 City of Covina Potential Outfall Sites

Table 3. Potential Wet Weather Outfall Monitoring Sites – City of Covina

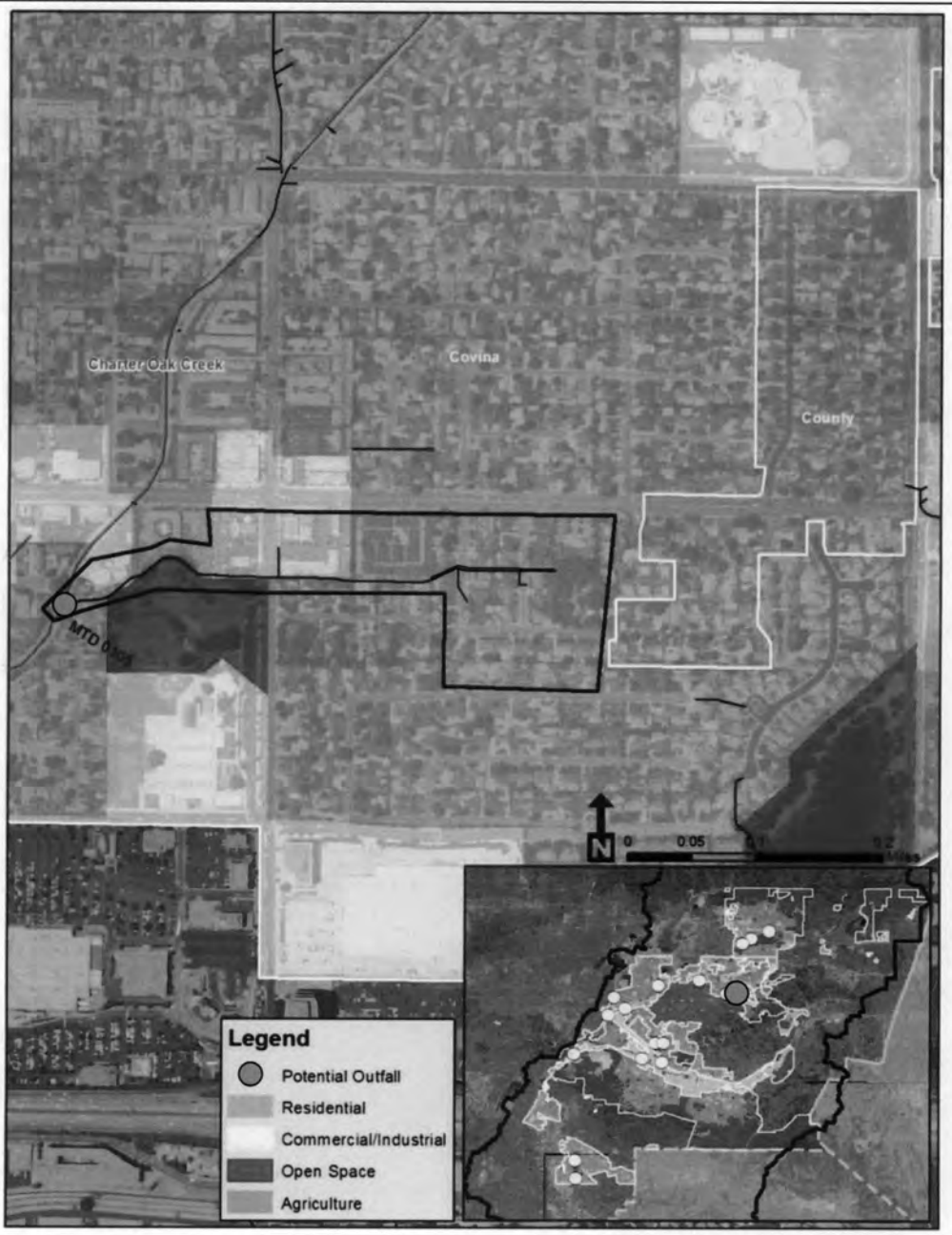
Water Body	Jurisdiction	Drain Name	Size	Shape	Material	Lat	Lon
Charter Oak Creek [1]	Covina	MTD 0105	36"	Round	Reinforced Conc. Pipe	34.077646	-117.884103
Charter Oak Creek [1, 2]	Covina	BI 0612	60"	Round	Reinforced Conc. Pipe	34.075697	-117.887446
Big Dalton Wash [2, 3]	Covina	BI 1123	81"	Round	Reinforced Conc. Pipe	34.086451	-117.915529

1. Tributary to Walnut Creek
2. Manhole location
3. Drain eventually discharges to Big Dalton Wash

F-3.1 MTD 0105

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
Charter Oak Creek	Covina	MTD 0105	36 inches	SW Outfall	34.077646	-117.884103

General Description: New SW outfall monitoring site discharging to Charter Oak Creek a tributary to Walnut Creek, downstream of Rowland Ave.

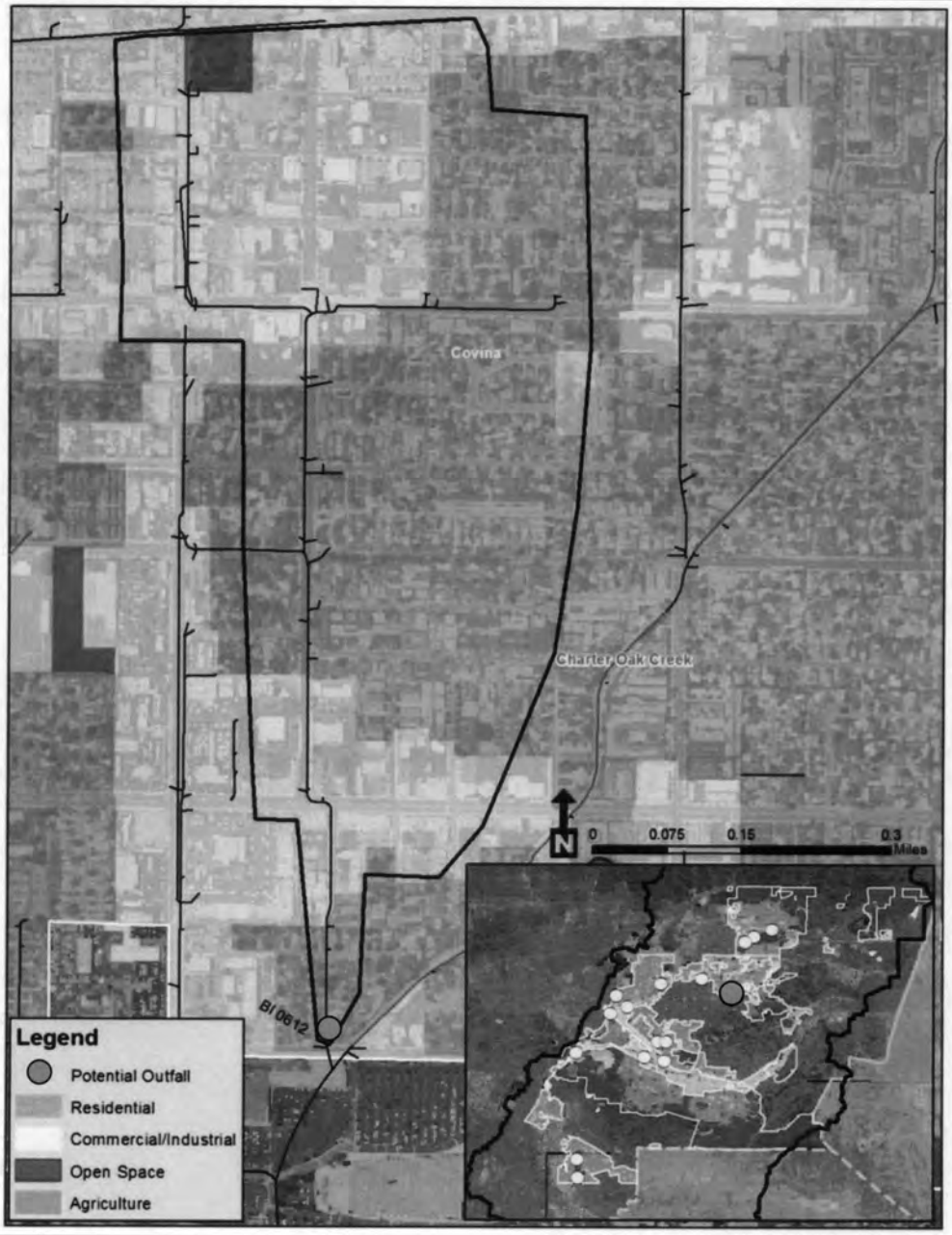


MTD 0105 Aerial View

F-3.2 BI 0612

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
Charter Oak Creek	Covina	BI 0612	60 inches	SW Outfall	34.075697	-117.887446

General Description: New man hole SW outfall monitoring site discharging to Charter Oak Creek' a tributary to Walnut Creek.

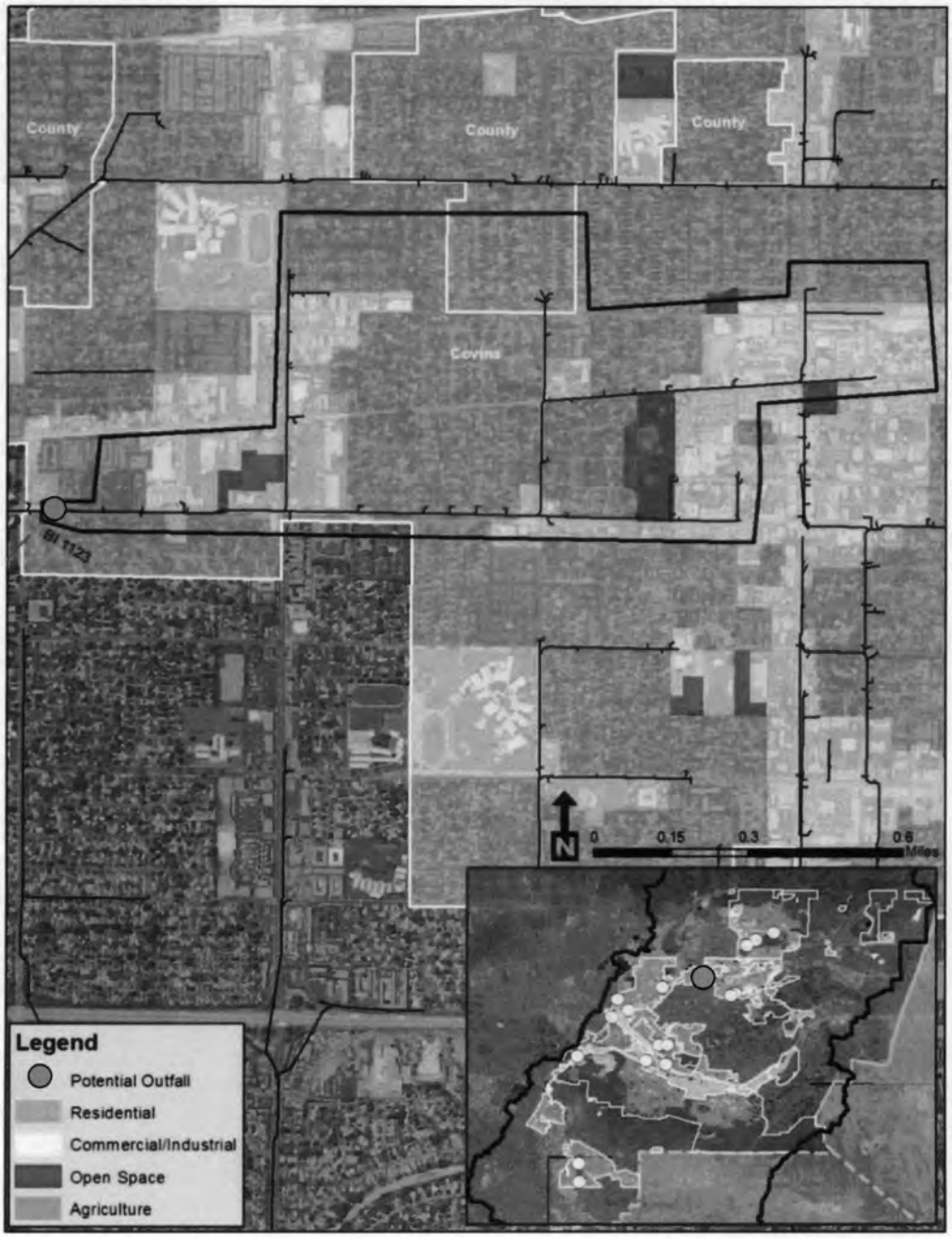


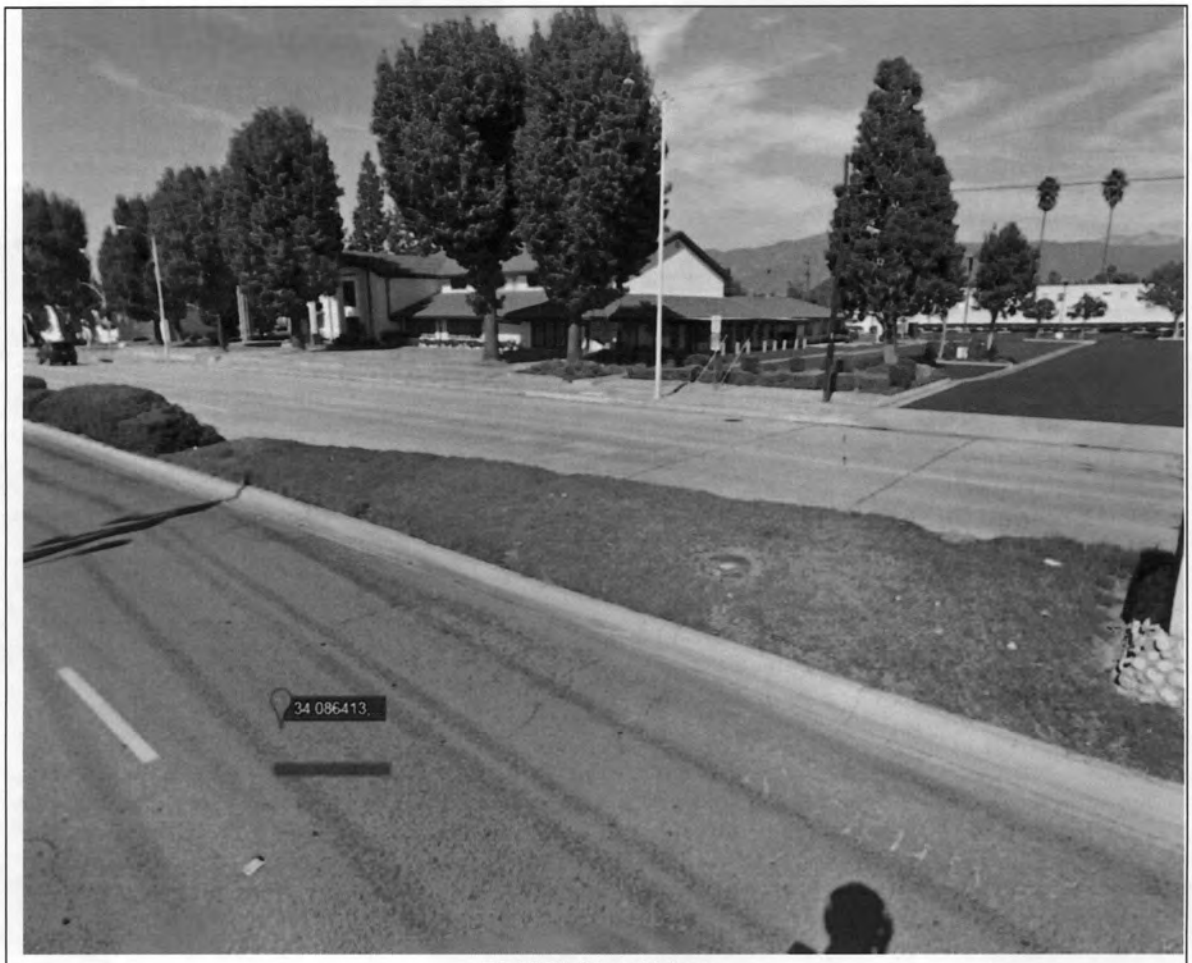
MTD 0105 Street View

F-3.3 BI 1123

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
Big Dalton Wash	Covina	BI 1223	81 inches	SW Outfall	34.086451	-117.915529

General Description: New man hole SW outfall monitoring site discharging to Big Dalton Wash





BI 1223 Street View

F-4 City of Industry Potential Outfall Sites

Table 4. Potential Wet Weather Outfall Monitoring Sites – City of Industry

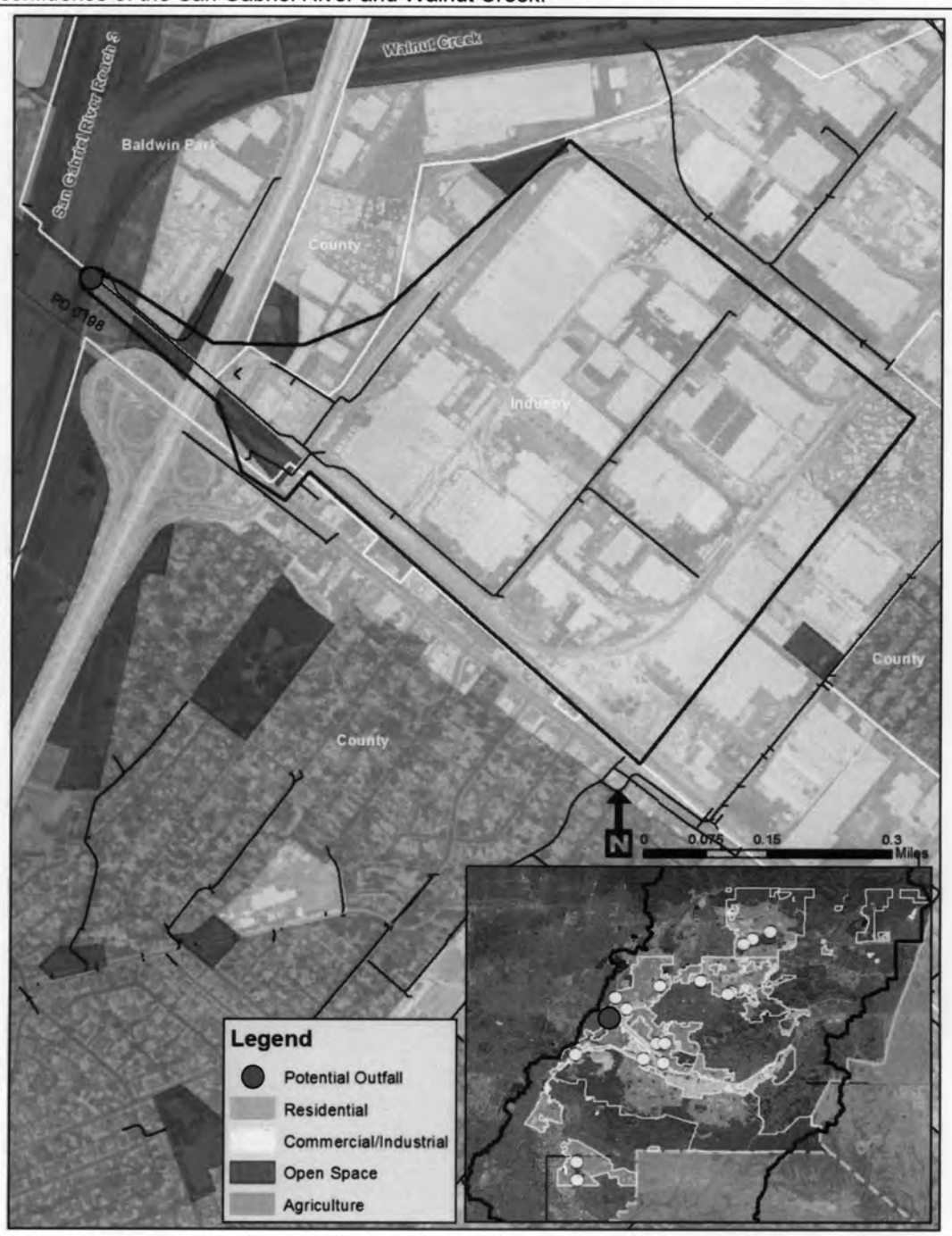
Water Body	Jurisdiction	Drain Name	Size	Shape	Material	Lat	Lon
SGR Reach 3	Industry	PD 0198	75"	Round	Reinforced Conc. Pipe	34.056824	-118.006203
SGR Reach 2 [1]	Industry	Pellissier Pl Drain	48"	Round	Reinforced Conc. Pipe	34.024104	-118.03951
SJC Reach 1	Industry	BI 4301 - Industry	72"	Round	Reinforced Conc. Pipe	34.020765	-117.971385

1. Channel eventually discharges to SGR Reach 2

F-4.1 PD 0198

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
SGR Reach 3	Industry	PD 1098	75 inches	SW Outfall	34.056824	-118.006203

General Description: New SW outfall monitoring site discharging to SGR Reach 3 just downstream of the confluence of the San Gabriel River and Walnut Creek.

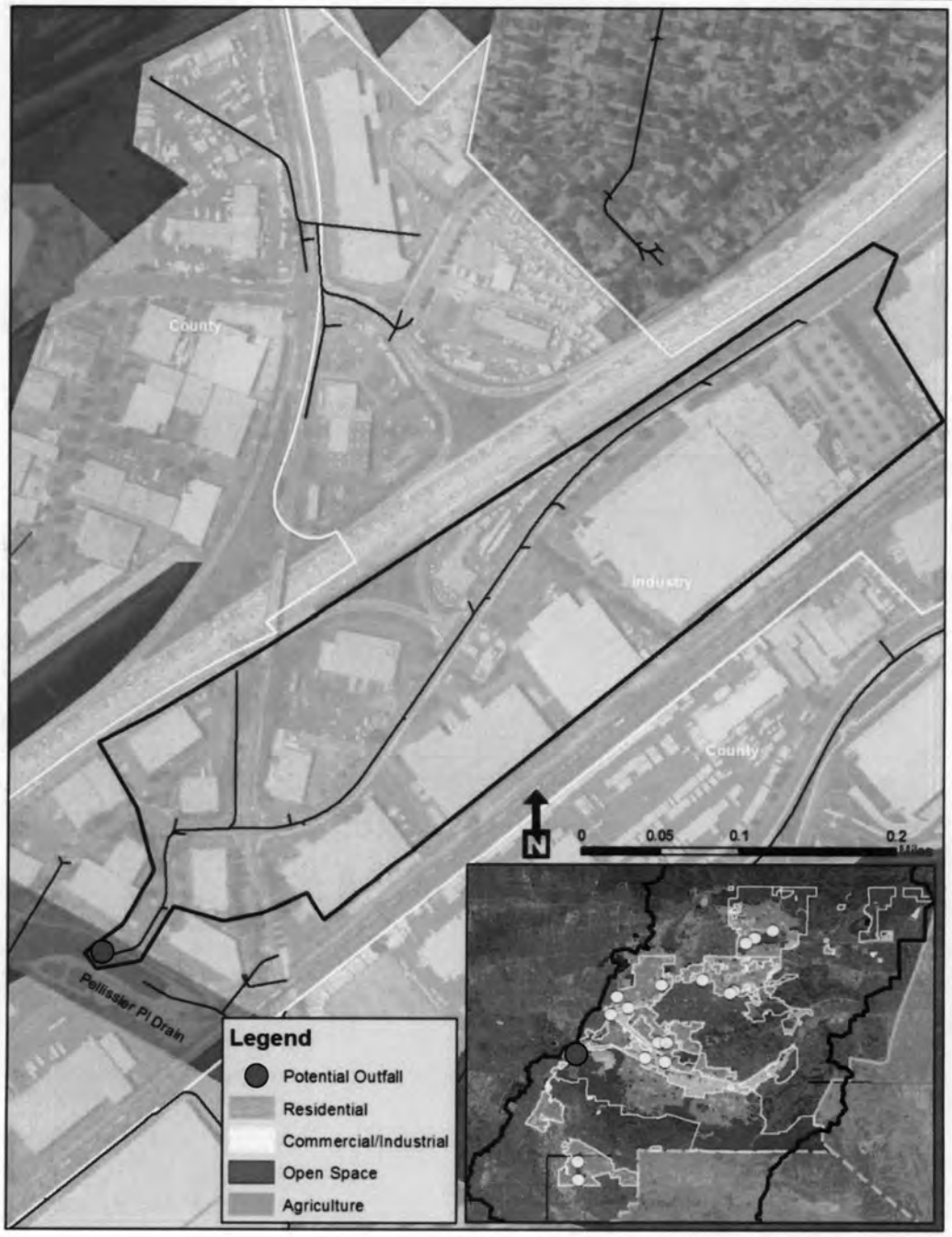


PD 0198 Aerial View

F-4.2 Pellissier Pl Drain

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
SGR Reach 2	Industry	Pellissier Pl Drian	48 inches	SW Outfall	34.024104	-118.03951

General Description: New SW outfall monitoring site discharging to SGR Reach 2 just downstream of Peck Rd.

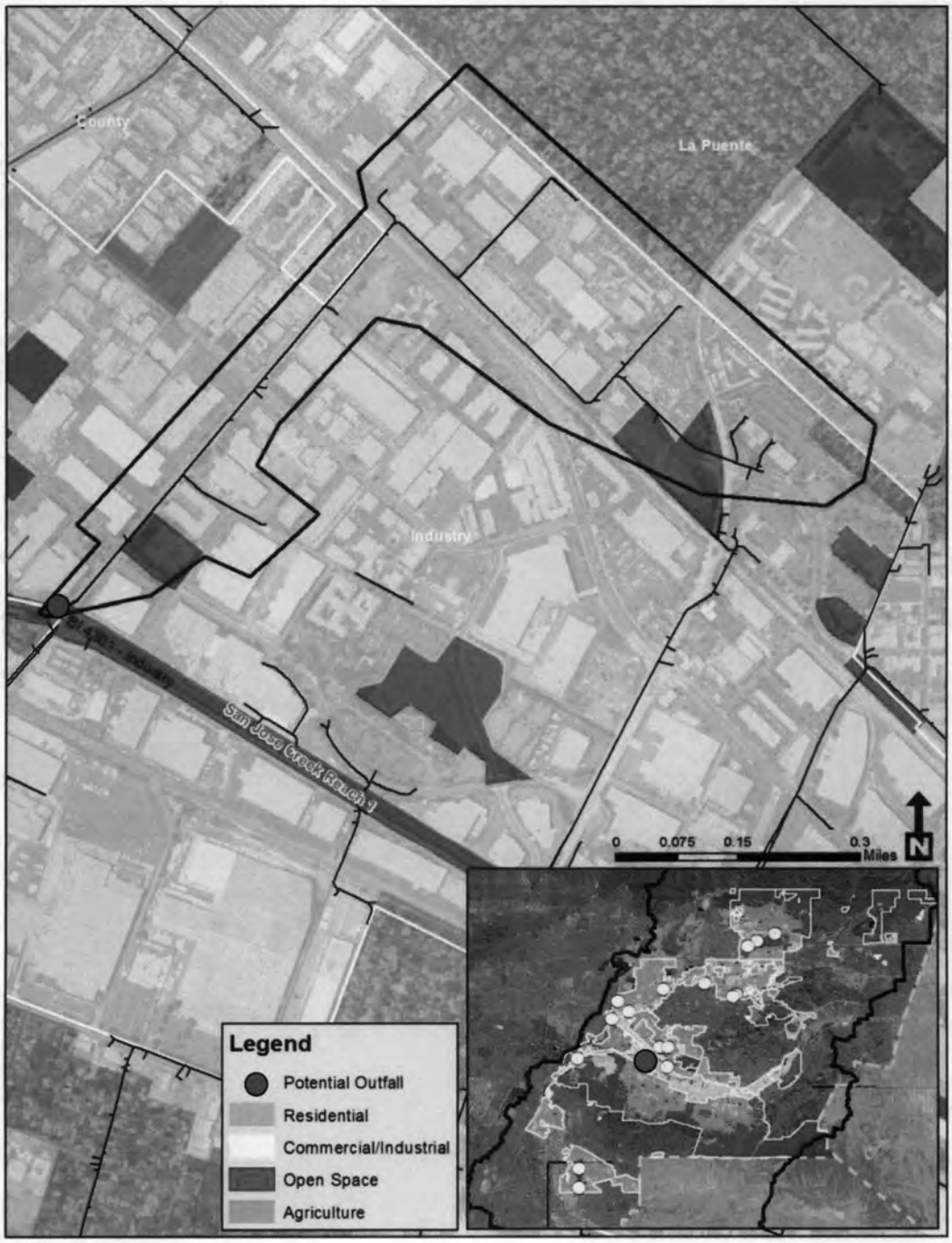


Pellissier Place Drain Aerial View

F-4.3 BI 4301 – Industry

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
SJC Reach 1	Industry	BI 4301 – Industry	72 inches	SW Outfall	34.020765	-117.971385

General Description: New SW outfall monitoring site discharging to SJC Reach 1 just downstream of Turnbull Canyon Rd.



BI 4301 - Industry Aerial View

F-5 City of Glendora Potential Outfall Sites

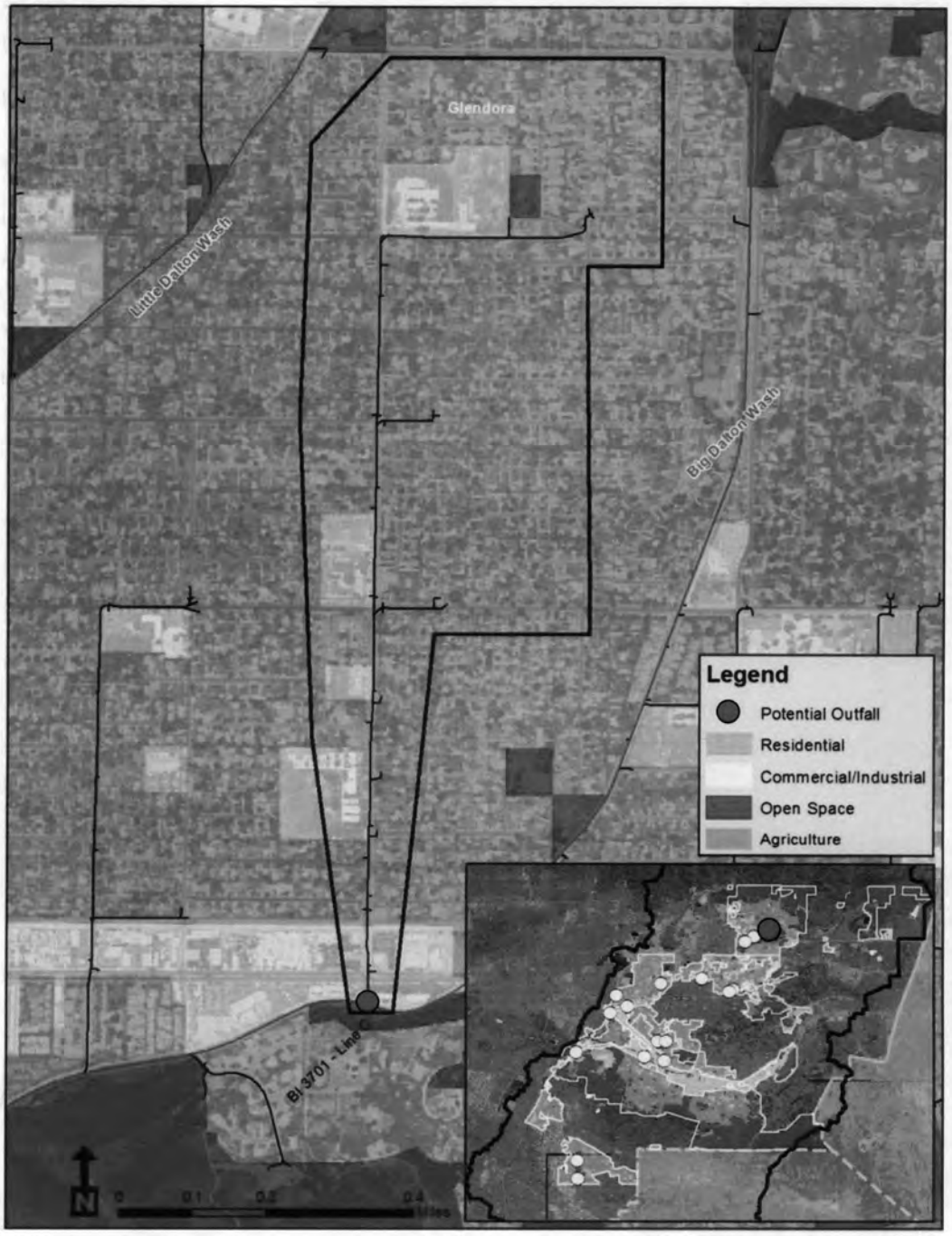
Table 5. Potential Wet Weather Outfall Monitoring Sites – Glendora

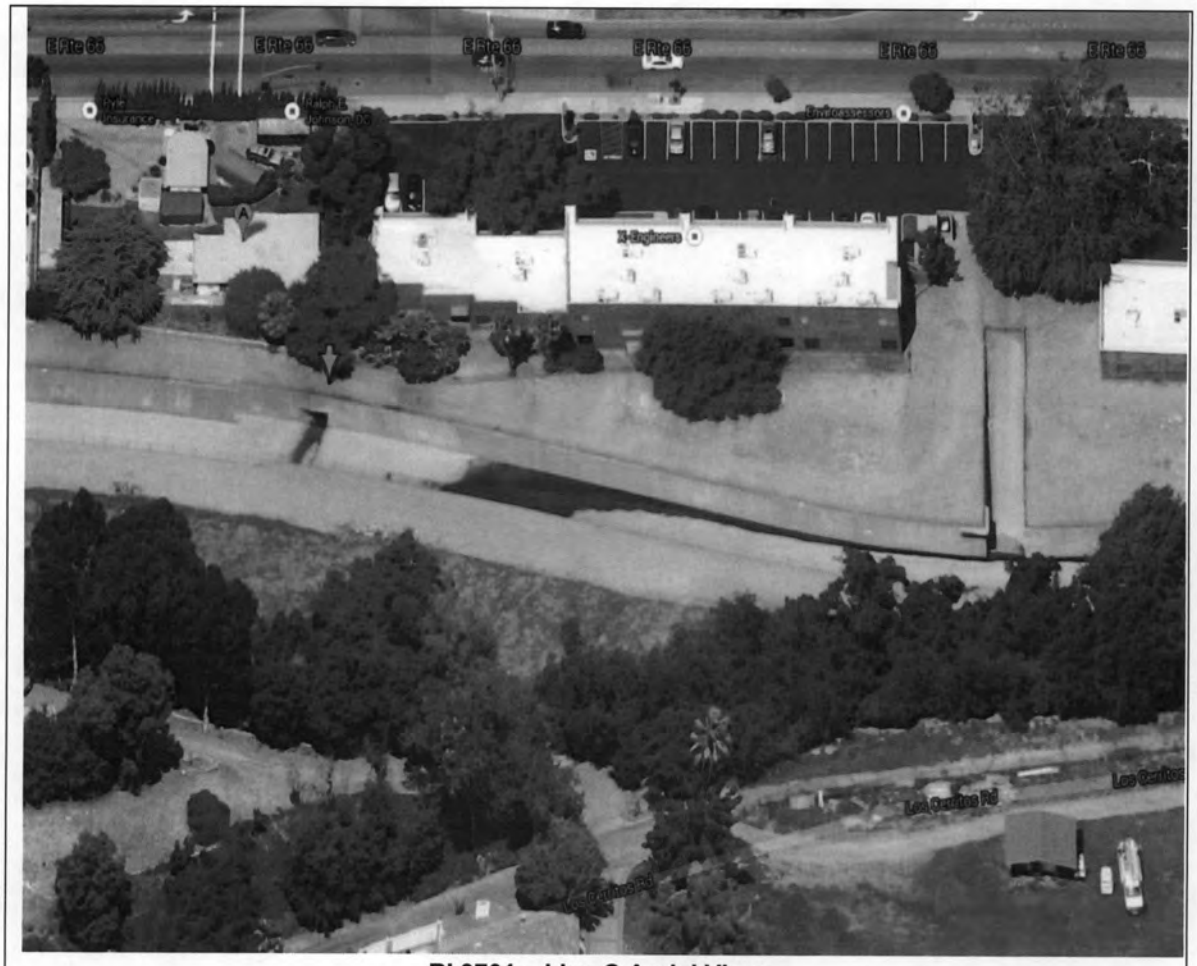
Water Body	Jurisdiction	Drain Name	Size	Shape	Material	Lat	Lon
Big Dalton Wash	Glendora	BI 3701 - Line C	60"	Round	Reinforced Conc. Pipe	34.128306	-117.846414
Big Dalton Wash	Glendora	BI 0517 - Line B	42"	Round	Reinforced Conc. Pipe	34.121922	-117.864099
Big Dalton Wash	Glendora	BI 0517 - Line A	75"	Round	Reinforced Conc. Pipe	34.117804	-117.872865

F-5.1 BI 3701 – Line C

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
Big Dalton Wash	Glendora	BI 3701 – Line C	60 inches	SW Outfall	34.128306	-117.846414

General Description: New SW outfall monitoring site discharging to Big Dalton Wash just downstream of East Route 66.



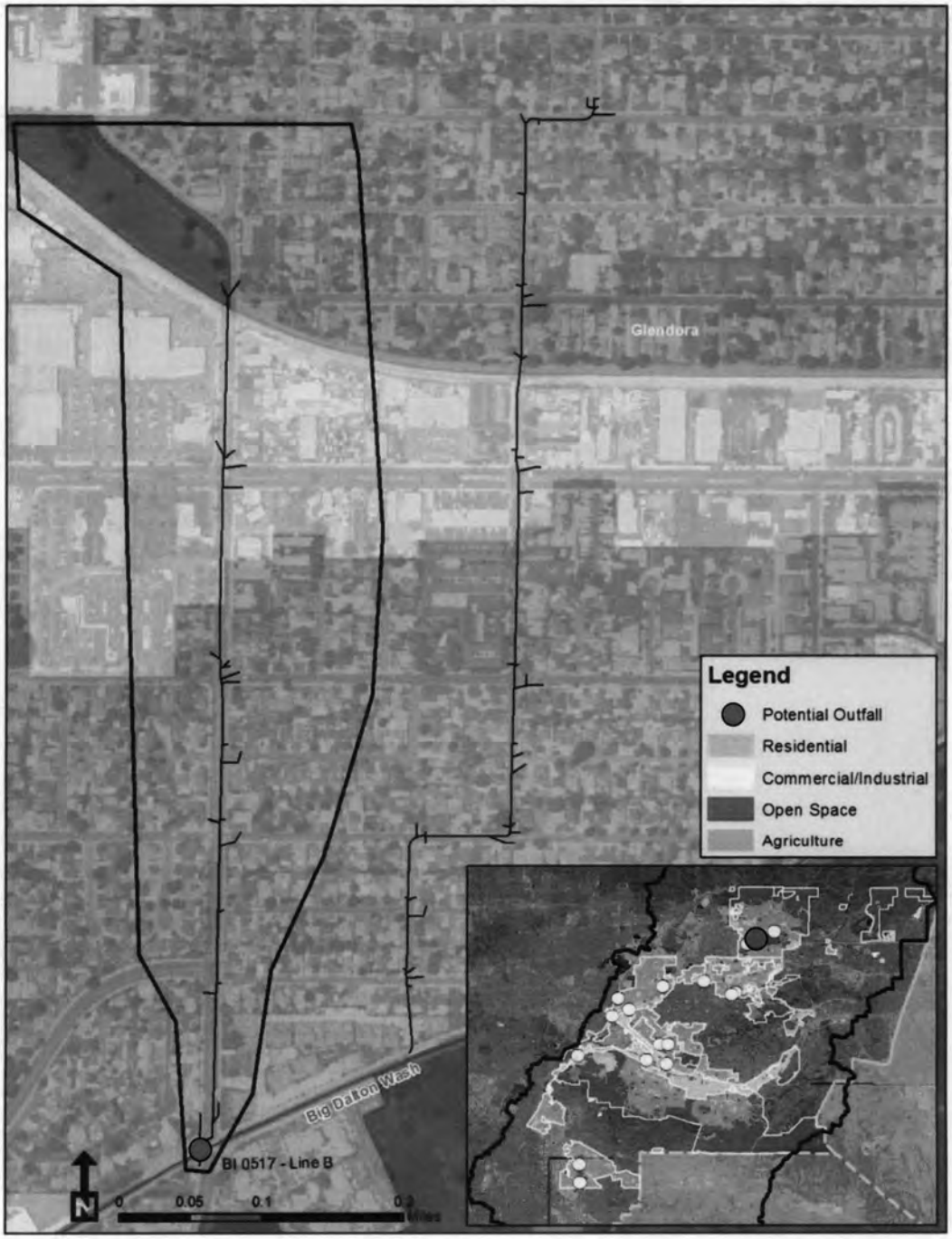


BI 3701 – Line C Aerial View

F-5.2 BI 0517 – Line B

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
Big Dalton Wash	Glendora	BI 0517 - Line B	42 inches	SW Outfall	34.121922	-117.864099

General Description: New SW outfall monitoring site discharging to Big Dalton Wash just downstream of Glendora Ave.

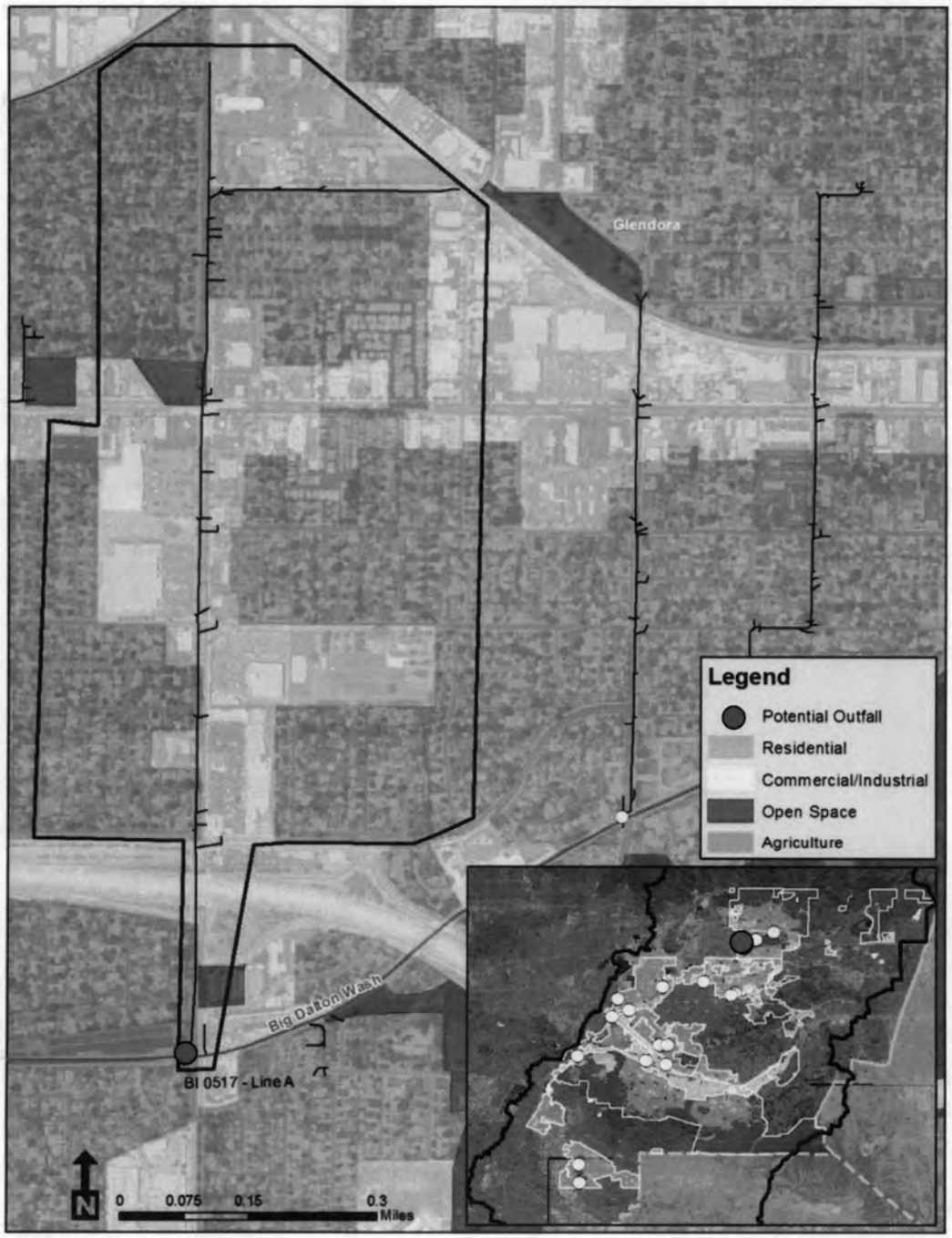


BI 0517 – Line B Aerial View

F-5.3 BI 0517 – Line A

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
Big Dalton Wash	Glendora	BI 0517 - Line A	75 inches	SW Outfall	34.117804	-117.872865

General Description: New SW outfall monitoring site discharging to Big Dalton Wash just downstream of Grand Ave.



BI 0517 – Line A Aerial View

F-6 City of La Puente Potential Outfall Sites

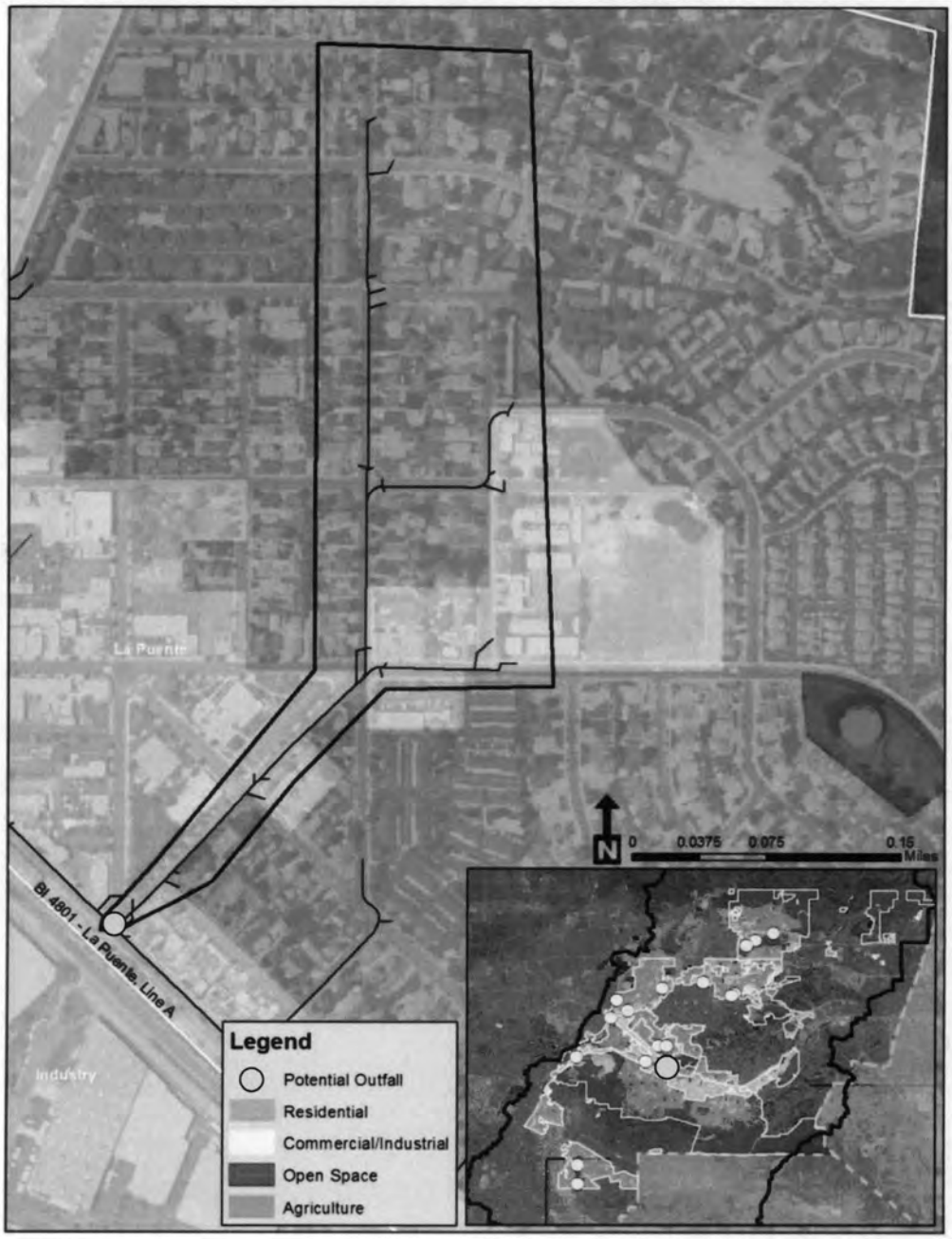
Table 6. Potential Wet Weather Outfall Monitoring Sites – City of La Puente

Water Body	Jurisdiction	Drain Name	Size	Shape	Material	Lat	Lon
SJC Reach 1 [1]	La Puente	BI 4801 - La Puente, Line A	42"	Round	Reinforced Conc. Pipe	34.018048	-117.951518
Puente Creek [2]	La Puente	BI 4801 - Line B	66"	Round	Reinforced Conc. Pipe	34.033704	-117.950301
Puente Creek	La Puente	RDD 0291	36"	Round	Reinforced Conc. Pipe	34.033697	-117.958337

1. Drain eventually discharges to San Jose Creek Reach 1
2. Drain eventually discharges to Puente Creek

F-6.1 BI 4801 – La Puente, Line A

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
SJC Reach 1	La Puente	BI 4801 – La Puente, Line A	42 inches	SW Outfall	34.018048	-117.951518
General Description: New man hole SW outfall monitoring site discharging to SJC Reach 1.						

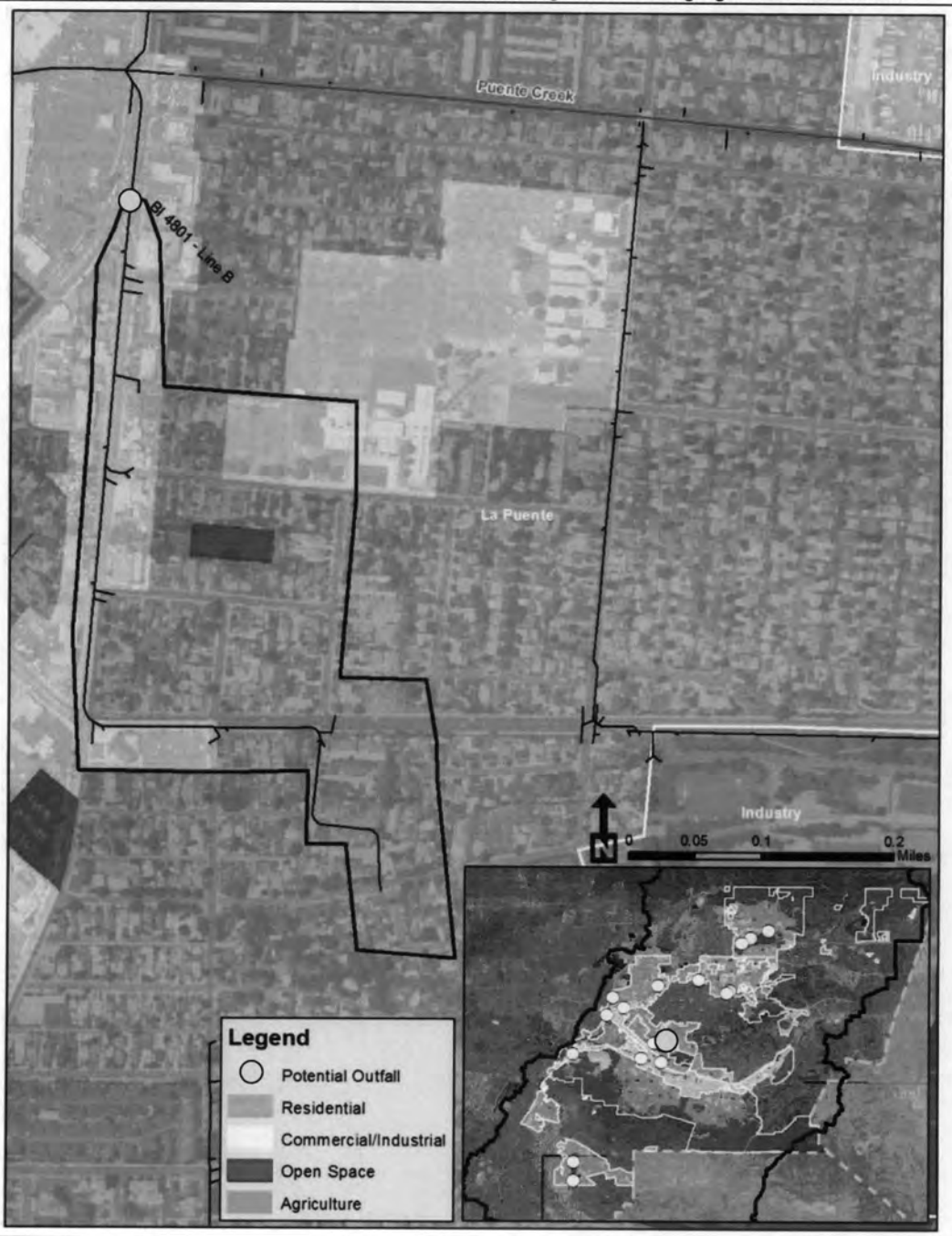


BI 4801 – La Puente, Line A Street View

F-6.2 BI 4801 – Line B

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
Puente Creek	La Puente	BI 4801 – Line B	66 inches	SW Outfall	34.033704	-117.950301

General Description: New man hole SW outfall monitoring site discharging to Puente Creek.

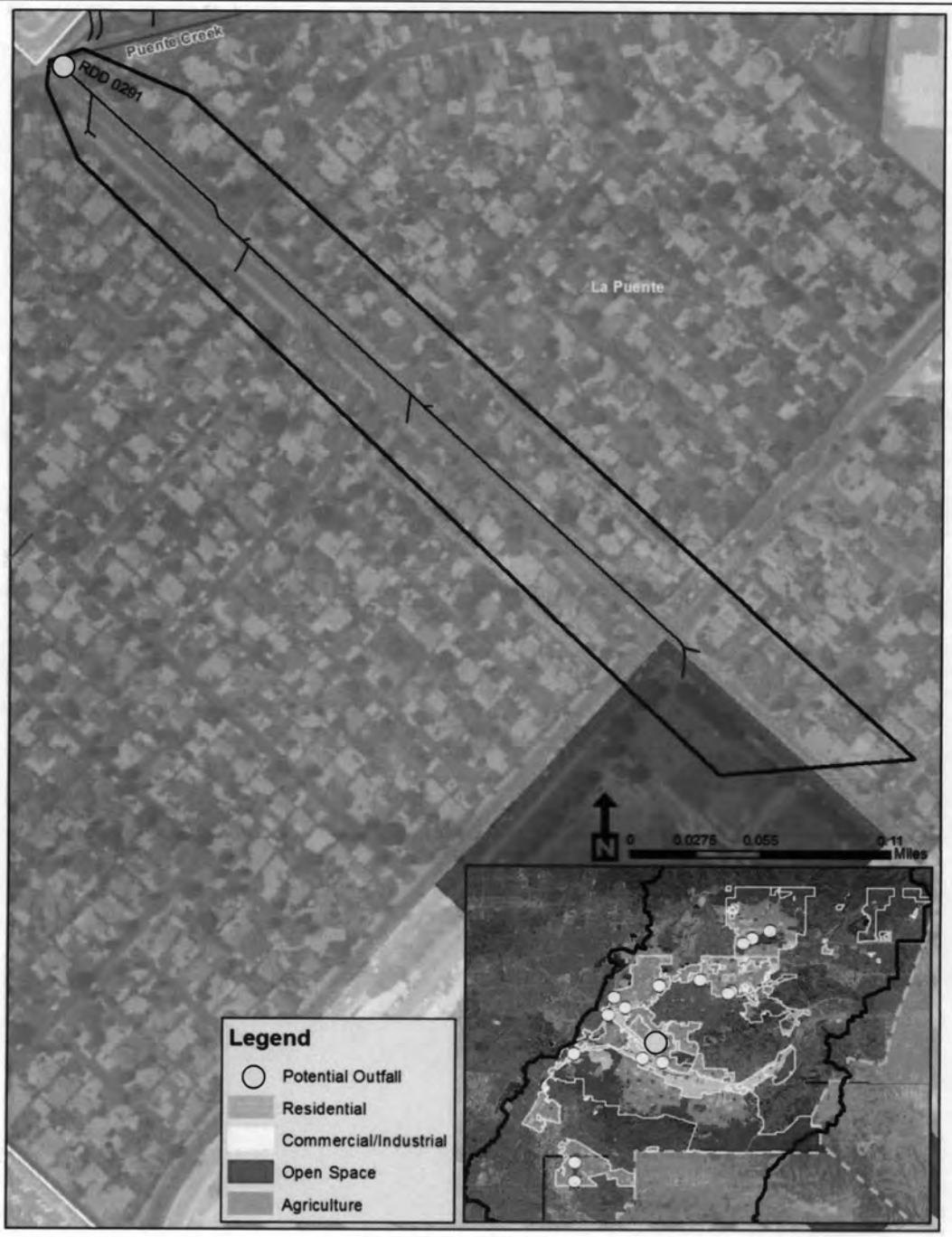


BI 4801 – Line B Street View

F-6.3 RDD – 0291

Water Body	Group Member	Drain Name	Size	Site Type	Latitude	Longitude
Puente Creek	La Puente	RDD 0291	36 inches	SW Outfall	34.033697	-117.958337

General Description: New SW outfall monitoring site discharging to Puente Creek just downstream of Temple Ave.



RDD 0291 Street View

Attachment G
CIMP Participation by City of South El Monte

The City of South El Monte (City) is located in the Los Angeles River (LAR) and San Gabriel River (SGR) Watershed Management Areas (WMAs), with the City located within the Alhambra Wash Hydrologic Unit Code-12 (HUC-12) of the LAR WMA (as shown in Figure G-1.) In a letter addressed to the Executive Officer of the Regional Board, dated February 26, 2015, the City committed to joining the Upper Los Angeles River Group's EWMP and the CIMPs for both Upper Los Angeles River Groups and USGR EWMP Group for compliance with the MS4 Permit. The members of the USGR EWMP Group have agreed to include the City in the Revised CIMP and will be entering into a Memorandum of Understanding with the City for the implementation of the CIMP.

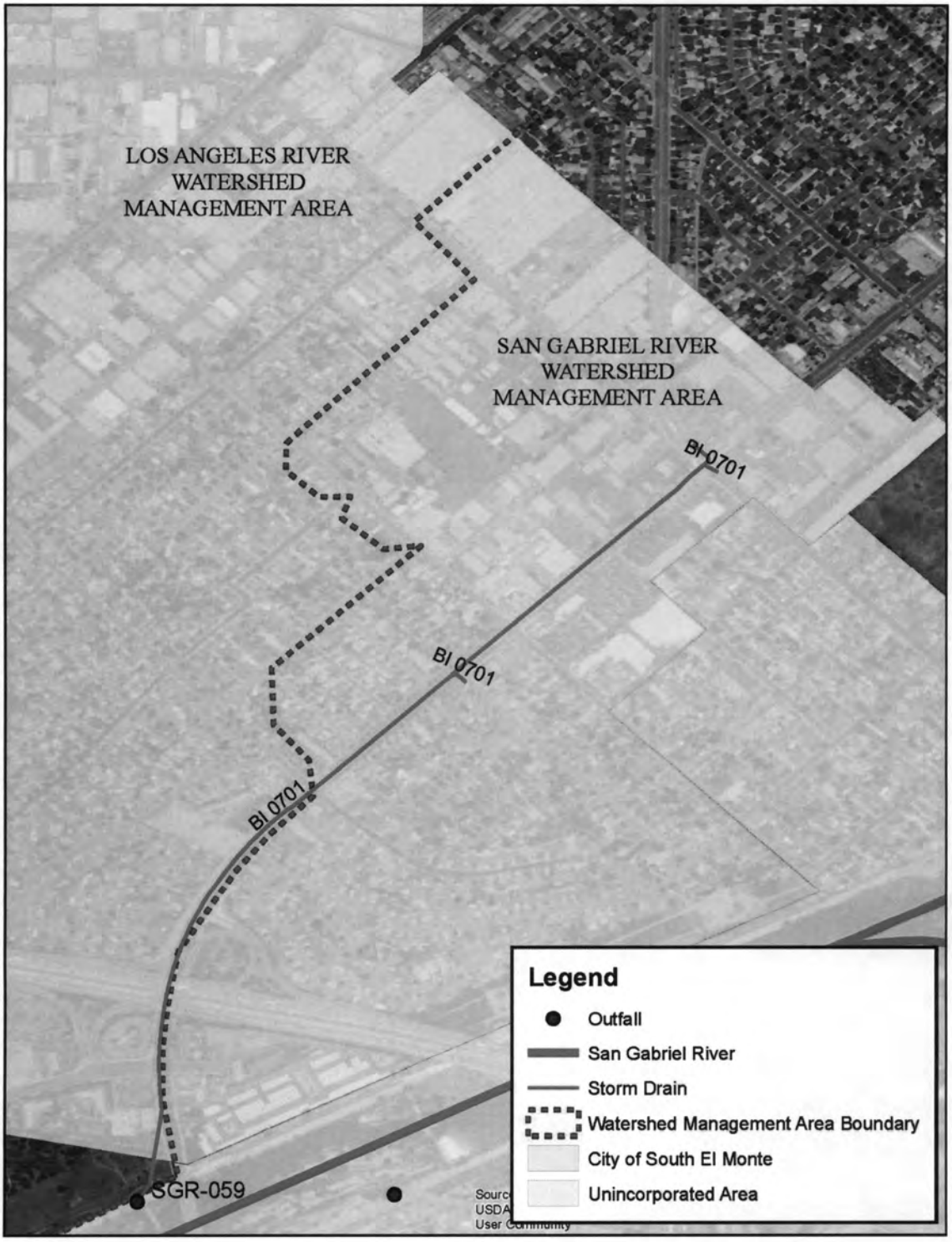
The City encompasses a total of 1,824 acres of land area, of which only 231 acres or 13% is within the SGR WMA. The portion that is tributary to the SGR WMA constitutes about 0.3% of the USGR EWMP area (see CIMP **Table 1-1**), and the MS4 is conveyed by a single storm drain to Outfall SGR-059. The City's land uses are provided in **Table G-1**.

Table G-1. City of South El Monte Land Use in San Gabriel River Watershed

	Residential	Commercial/Industrial	Open Space	Agriculture
Area (Sq Mi)	0.14	0.20	<0.01	0.02
Percent of Area	40%	55%	<1%	5%

Outfall SGR-059 discharges into SGR Reach 3, and is included in the non-stormwater outfall screening and monitoring program. LTA, TMDL, and stormwater outfall monitoring data from other members in the EWMP Group will be considered in assessing whether the City's MS4 may be causing or contributing to observed exceedances of Water Quality Objectives.

Figure G-1
Portion of South El Monte in the San Gabriel River Watershed Management Area



Account Detail

My File Edit Tools Help

Receipts
History
Bill History
Text
Generate AR
Print Renewal
View Calc
Estimate Chgs
Copy
Inspections

License

License reference 50775 +1 Account ID 019408 DBA Arce Development Co, Lee

Main | Location | Dates/Other | Statistics | Text/Comments | Notes

NAICS		Description	
Category	5550	Lic text 1	Environmental Services
Type code	5550	Lic text 2	Environmental License Fees
Desc code 1		Lic text 3	
Desc code 2		Lic text 4	
Desc code 3		Lic text 5	
Desc code 4		Lic text 6	
Desc code 5		Lic text 7	
Cycle code	ENVI	Description	Environmental Svcs

Food manager

Status comment

Status ACTIVE 01/2015 PAID

Allow processing of exempt license

Inactivated

On-Hold

by

Mail to AGENT/OPERATOR

Bill to AGENT/OPERATOR

Bill to CID 0

Seasonal

General contractor

Discount allowed

Print renewals

Print renewals/delinquent notices

Additional forms requested

Type	Company	Number	Status	Issued	Expired

Bonds/Insurance | License CIDs | Locations | Requirements

Charge	Reference	Start Date	Stop Date	Quantity	Factor	Prorate	Bil
STORM WATER INSPECTION FEE COMM/IND		11/05/2014	06/01/2015	1.00	100	0.000	

Add | Update | Delete

2 of 2

Attachments (0)

OVR

CITY OF COVINA
AGENDA ITEM COMMENTARY

MEETING DATE **June 2, 2015** **ITEM NO. CC 8**

STAFF SOURCE **Siobhan Foster, Public Works Director**

ITEM TITLE **Change Orders for Project T-0814B, Pedestrian and Metrolink Station Improvements**

STAFF RECOMMENDATION

1) Approve Change Order Nos. 3, 6, 7, 10, 12, 13, and 14 for Project T-0814B Metrolink Station Improvements increasing the construction contract by a total of $44,546; and
2) Authorize the City Manager or her designee to execute the approved change orders.

FISCAL IMPACT

Approval of Change Order Nos. 3, 6, 7, 10, 12, 13, and 14 will increase the construction contract by a total of $44,546. The cumulative effect of these change orders and the deductive changes orders totaling $49,199 previously approved by the City Council on May 5, 2015, the contract budget totals $1,418,338 a decrease of $4,653 from the original project budget of $1,422,991. Project funding is available in the Department of Public Works budget (account 4300-4350-55200).

BACKGROUND

On October 7, 2014, the City Council awarded a $1,422,991 construction contract to Hillcrest Contracting for Project T-0814B, Metrolink Station Improvements. At the time of contract award, the Department of Public Works did not request approval of a project contingency, necessitating City Council consideration of project change order requests at this time. As of May 20, 2015, the City Engineer has reviewed the following change orders for completeness and accuracy as to the materials and labor included:

- Change Order No. 6: Power relocation was required for the replacement of an aged irrigation controller on Front Street. The change in contract cost due to Change Order #1 is an increase of $1,533 to the contract cost.
- Change Order No. 7: The existing irrigation controller on Front Street did not have the capability to read flow sensor data and meet current water conservation standards. Therefore, the installation of a new irrigation controller on Front Street was indicated; an increase of $3,536 to the contract cost.
- Change Order No.10: Project plans showed the point of irrigation connection on the westerly end of the Metrolink parking lot, but it was determined after field investigation to be located on the easterly end. Therefore, additional conductors and conduit were

required for the flow sensor and master valve to a new point of connection; an increase of $1,862 to the contract cost.

- Change Order No. 12: During construction, conduits were discovered running in the Metrolink parking lot for the Bikestation that were not shown on the project plans. It was necessary to lower the existing conduits, remove existing pull boxes, and install a traffic rated pull box to bring the area to grade; an increase of $3,451 in the contract cost.
- Change Order No. 13: This change order is related to change order #10, in which the plans erroneously showed the point of irrigation connection on the west end of the parking lot instead of the east end. An additional water service line was needed for a new point of connection; an increase of $789 to the contract cost.
- Change Order No. 14: Quantities were underestimated in design on Bid Item No. 4 for concrete removals and hauling resulting in additional concrete removals in a quantity above 125% of the original design specifications. The additional removals completed at time and material cost were deemed to be paid as extra work; an increase of $20,646 to the contract cost.

As design inaccuracies/deficiencies may have contributed to the Change Orders, the Department of Public Works will be consulting with the City Attorney as to appropriate next steps, if any.

Additionally, the Department of Public Works is resubmitting Change Order No. 3 for reconsideration by the City Council to reflect the correct amount of the additive work completed. On May 5, 2015, the City Council approved Change Order No. 3 in the amount of $14,153. The correct amount of the Change Order No. 13 is $12,729, a reduction of $1,424 from the previously approved amount.

- Change Order No. 3: Improvements to Front Street entry to Metrolink Parking Structure not included in project plans; asphalt overlay of Front Street add brick pavers and additional concrete grinding; increase of $12,729 to contract cost.

The Department of Public Works returned Change Order No. 11 to the contractor for additional information and subsequent review by the City Engineer and will be brought forward for City Council consideration, if necessary, at a future date. The City Council approved Change Orders Nos. 8 and 9 on May 5, 2015.

EXHIBITS

A. Change Order Nos. 3, 6, 7, 10, 12, 13, and 14

Respectfully submitted,

Siobhan Foster / Public Works Director
Public Works Department

CITY OF COVINA

125 East College Street ● Covina, California 91723-2199
www.covinaca.gov

PUBLIC WORKS DEPARTMENT

Engineering (626) 384-5490 FAX (626) 384-5479

CHANGE ORDER

Change Order No.3

DATE: April 15, 2015
PROJECT NO. T-0814B Federal Project No. HPLUL-5118(016)
CONTRACT: Pedestrian and Metrolink Improvements Project
CONTRACTOR: Hillcrest Contracting, Incorporated.

Revised- Remove and Replace Front Street Entry with 12" PCC Band.

1. Remove & Replace Front Street Entry- Pavers, Grind, And Asphalt Overlay not included.

   Total increase = $14,153.60

2. Adding 12" PCC Band, eliminate 75SF of line item 39- Brick pavers (basket weave pattern) at $19/sf

   Total decrease= $1,425.00

3. Time Extension: 3 days

4. Change in contract cost: Increase of $12,728.60

Submitted by _____ Date 4/21/15
Title: City Engineer

Accepted by: _____ Date 4/21/15
Title: Contractor, Hillcrest Contacting, Inc.

Approved by: _____ Date 5/6/15
Title: Interim Public Works Director

The City of Covina provides responsive municipal services and manages public resources to enhance the quality of life for our community.

Laura Lara

From:	jason@hillcrestcontracting.com
Sent:	Wednesday, March 25, 2015 9:06 AM
To:	z.Kamran Saber; Kamran Saber
Cc:	Laura Lara
Subject:	COR #003 REVISED - Remove & Replace Front St. Entry w/12" PCC Band - Pavers, Grind and Ashalt Overlay NOT Included
Attachments:	DOC032515.pdf

Kamran,

COR #003 REVISED - Remove & Replace Front St. Entry w/12" PCC Band - Pavers, Grind and Ashalt Overlay NOT Included. By adding the 12" PCC band you are eliminating approximately 75 SF x $19.00 = $1,425 savings on Item 39 – Brick Pavers (Basketweave Pattern).

Thank you,

Jason G. Jones
Hillcrest Contracting, Inc.
Office: 951-273-9600 x-120
Mobile: 951-283-5601

HILLCREST
CONTRACTING, INC.

HILLCREST CONTRACTING, INC.

License No. 471664

March 25, 2015

City of Covina
125 East College St.
Covina, CA 91723
PH: 626-384-5483

ATT Laura Lara

REF Pedestrian & Metrolink Station Improvements
Project No. T-0814B

RE: **REVISED** COR#003- Remove & Replace Front St. Entry w/12" PCC Band - Pavers, Grind and Asphalt Overlay Not Included

Dear Laura,
We are requesting a change order for the additional work as follows:

Item	DATE PERFORMED	DESCRIPTION	QTY	U/M	UNIT PRICE	AMOUNT
1	N/A	Remove & Replace Front St. Entry w/12" PCC Band - Pavers, Grind and Ashalt Overlay NOT Included	1	LS	$14,153.60	$ 14,153.60
						$ -
					TOTAL THIS REQUEST:	$ 14,153.60

If you have any questions, please contact me at (951) 273 9600 Ext. 120

Sincerely,

Jason G. Jones
Hillcrest Contracting, Inc.
JOB: 2618

Details Report For : PEDESTRIAN - METROLINK STATION IMP. P

Hillcrest Contracting | JERRY BLAIR | 3/25/2015

Ph.	Item	Description	Quantity	U/M	Unit Cost	Total Cost	Margin%	Unit Pricet	Total Price
X	1	REMOVE & REPLACE FRONT ST ENTRY - NO PAVERS	1.00	LS	$12,000.54	$12,000.54	17.94	14,153.60	$14,153.60

Activity REMOVE AC & BRICK PAVERS **Crew** REMOVE AC **Activity Qty** 1.00 LS

	Rate:			Days:		
Day:	1.00 LS	650 SF / 19	Labor	1.00	TotalCost:	2,625.49
Hour:	0.10 LS		Equipment	1.00	UnitCost:	2,625.490
			Actual:	1.00		

Labor		Quantity	Hours		Days	Unit Cost	
GENFO	GENERAL FOREMAN G	1.00	4.00	HR	1.00	$77.70	$310.81
LAB 1	LABORER GROUP 1	1.00	4.00	HR	1.00	$58.67	$234.68
						Total	$545.49

Equipment		Quantity	Hours		Days	Unit Cost	
TRPU	PICKUP TRUCK	1.00	4.00	HR	1.00	$20.00	$80.00
BKHOE	BACKHOE	1.00	4.00	HR	1.00	$135.00	$540.00
SAW	SAW CUT	1.00	4.00	HR	1.00	$125.00	$500.00
						Total	$1,120.00

Trucks		Quantity	Unit Cost	
TRKSU	SUPER 10 DUMP TRUC	8.00	$90.00	$720.00
			Total	$720.00

Other		Quantity	Unit Cost	
DMP	DUMP FEE - TRASH	3.00	$80.00	$240.00
			Total	$240.00

Act Note:

Details Report For : PEDESTRIAN - METROLINK STATION IMP. P

Hillcrest Contracting | JERRY BLAIR | 3/25/2015

Ph.	Item	Description	Quantity	U/M	Unit Cost	Total Cost	Margin%	Unit Pricet	Total Price
X	1	REMOVE & REPLACE FRONT ST ENTRY - NO PAVERS	1.00	LS	$12,000.54	$12,000.54	17.94	14,153.60	$14,153.60

Activity SKIPLOADER GRADING **Crew** GRADING SKIPLOADER CR **Activity Qty** 1.00 LS

	Rate:			Days:		
Day:	1.00	LS	650 SF	Labor	1.00	
Hour:	0.30	LS		Equipment	1.00	
				Actual:	1.00	

TotalCost: 1,764.29
UnitCost: 1,764.290

Labor		Quantity	Hours		Days	Unit Cost	
GENFO	GENERAL FOREMAN G	1.00	4.00	HR	1.00	$77.70	$310.81
LAB 1	LABORER GROUP 1	1.00	4.00	HR	1.00	$58.67	$234.68
LGC	GUINEA CHASER LABO	1.00	4.00	HR	1.00	$59.54	$238.15
						Total	$783.64

Equipment		Quantity	Hours		Days	Unit Cost	
TRPU	PICKUP TRUCK	1.00	4.00	HR	1.00	$20.00	$80.00
SKIP	SKIPLOADER	1.00	4.00	HR	1.00	$140.00	$560.00
TRW20	WATER TRUCK 2000 B	1.00	4.00	HR	1.00	$50.00	$200.00
RLPUP	ROLLER PUP / Fuel	1.00	4.00	HR	1.00	$35.00	$140.00
						Total	$980.00

Material		Quantity	Unit Cost	
MISC G	HUBS, PAINT, STRING	650.00	$0.00	$0.65
			Total	$0.65

Other		Quantity	Unit Cost	
EQM 1	EQUIPMENT MOVE RA	0.00	$300.00	$0.00
			Total	$0.00

Act Note:

Details Report For : PEDESTRIAN - METROLINK STATION IMP. P

Hillcrest Contracting | JERRY BLAIR | 3/25/2015

Ph.	Item	Description	Quantity	U/M	Unit Cost	Total Cost	Margin%	Unit Pricet	Total Price
X	1	REMOVE & REPLACE FRONT ST ENTRY - NO PAVERS	1.00	LS	$12,000.54	$12,000.54	17.94	14,153.60	$14,153.60

Activity FORM & POUR 6" PCC SUB-SLA **Crew** 8 MEN CONCRETE CREW **Activity Qty** 1.00 LS

	Rate:				Days:		
Day:	1.00	LS	18 CY	Labor	1.00	TotalCost:	6,805.67
Hour:	0.10	LS		Equipment	1.00	UnitCost:	6,805.670
				Actual:	1.00		

Labor		Quantity	Hours		Days	Unit Cost	
4MPCC	FOREMAN CONCRETE	1.00	8.00	HR	1.00	$78.49	$627.92
MAS	CEMENT MASON	4.00	8.00	HR	1.00	$63.82	$2,042.24
TEAMS	TEAMSTER III	1.50	8.00	HR	1.00	$62.00	$743.96
LABPC	LABOR CONCRETE W	2.00	8.00	HR	1.00	$58.67	$938.70
						Total	$4,352.82

Equipment		Quantity	Hours		Days	Unit Cost	
TRPU	PICKUP TRUCK	1.00	8.00	HR	1.00	$20.00	$160.00
TRFOR	FORM TRUCK	1.00	8.00	HR	1.00	$50.00	$400.00
						Total	$560.00

Material		Quantity	Unit Cost	
CONLO	CONLOD - NATIONAL R	2.00	$54.00	$108.00
MISC02	MISC CONCRETE SUP	18.00	$2.50	$45.00
REBR2	#4 REBAR 20' LONG +	105.00	$5.50	$577.50
CON6S	CON6SK - NATIONAL R	15.00	$77.49	$1,162.35
			Total	$1,892.85

Act Note:

Details Report For : PEDESTRIAN - METROLINK STATION IMP. P

Hillcrest Contracting | JERRY BLAIR | 3/25/2015

Ph.	Item	Description	Quantity	U/M	Unit Cost	Total Cost	Margin%	Unit Pricet	Total Price
X	1	REMOVE & REPLACE FRONT ST ENTRY - NO PAVERS	1.00	LS	$12,000.54	$12,000.54	17.94	14,153.60	$14,153.60

Activity SLOT PATCH **Crew** PAVING CREW HAND WOR **Activity Qty** 1.00 LS

	Rate:		Days:		
Day:	1.00 LS	Labor	1.00	TotalCost:	805.09
Hour:	0.50 LS	Equipment	1.00	UnitCost:	805.090
		Actual:	1.00		

Labor		Quantity	Hours		Days	Unit Cost	
GENFO	GENERAL FOREMAN G	1.00	2.00	HR	1.00	$77.70	$155.41
LAB 1	LABORER GROUP 1	2.00	2.00	HR	1.00	$58.67	$234.68
						Total	$390.09

Equipment		Quantity	Hours		Days	Unit Cost	
TRPU	PICKUP TRUCK	1.00	2.00	HR	1.00	$20.00	$40.00
TRCRE	CREW TRUCK	1.00	2.00	HR	1.00	$40.00	$80.00
RLPUP	ROLLER PUP / Fuel	1.00	2.00	HR	1.00	$35.00	$70.00
						Total	$190.00

Material		Quantity	Unit Cost	
AC	AC - ALL AMERICAN AS	4.00	$55.50	$222.00
ACENV	ACENVR - ALL AMERIC	1.00	$3.00	$3.00
			Total	$225.00

Act Note:

Item Note:

	Cost	%MU	Price
Labor			
Equip			
Equip.Rent			
Material			
Transportation			
Sub/Service			
Other			
Bond			
Total Bid			
Total Margin			

Laura Lara

From: Kamran Saber <KSaber@jmdiaz.com>
Sent: Friday, April 03, 2015 10:05 AM
To: jason@hillcrestcontracting.com; Kamran Saber
Cc: Laura Lara; Juan Diaz; Ron Hadloc; tolentinoleo@gmail.com
Subject: RE: COR #003 - Remove & Replace Front St. Entry

Approved as submitted.
Thank you

Kamran Saber, PE | Director, Transportation Services
JMDiaz, Inc. (JMD)

JMD

Los Angeles County
18645 East Gale Avenue | Suite 212 | City of Industry, CA 91748-1363
(626) 820-1137 Tel | (626) 820-1136 Fax

Orange County
2400 East Katella Avenue | Suite 800 | Anaheim, CA 92806
(714) 627-2447 Tel | (714) 627-2401 Fax
www.jmdiaz.com

From: jason@hillcrestcontracting.com [mailto:jason@hillcrestcontracting.com]
Sent: Friday, April 03, 2015 8:39 AM
To: Kamran Saber; Kamran Saber Covina (KSaber@covinaca.gov) (KSaber@covinaca.gov)
Cc: Laura Lara (llara@covinaca.gov)
Subject: FW: COR #003 - Remove & Replace Front St. Entry

attached

Thank you,

Jason G. Jones
Hillcrest Contracting, Inc.
Office: 951-273-9600 x-120
Mobile: 951-283-5601

HILLCREST
CONTRACTING, INC.

From: jason@hillcrestcontracting.com
Sent: Tuesday, March 17, 2015 2:30 PM
To: Kamran Saber (KSaber@jmdiaz.com); llara@covinaca.gov
Subject: FW: COR #003 - Remove & Replace Front St. Entry

Laura & Kamran,

Attached is COR #003 - Remove & Replace Front St. Entry which was sent to Jack yesterday. Thank you.

Thank you,

Jason G. Jones
Hillcrest Contracting, Inc.
Office: 951-273-9600 x-120
Mobile: 951-283-5601

HILLCREST
CONTRACTING, INC.

From: jason@hillcrestcontracting.com
Sent: Monday, March 16, 2015 4:43 PM
To: Jack Shah; jackshah21@gmail.com
Cc: Jean@hillcrestcontracting.com
Subject: COR #003 - Remove & Replace Front St. Entry

Jack,

COR #003 – Remove & Replace Front St. Entry is attached for your review. This price is based on the revised Front St. entry plan received from your office on 3/11/15. Items included are remove existing, grading, 9" PCC banding, 6" PCC sub-slab, and AC slot patch. The brick pavers, asphalt grinding and asphalt overlay are not included as they would be billed per their specific contract items.

Thank you,

Jason G. Jones
Hillcrest Contracting, Inc.
Office: 951-273-9600 x-120
Mobile: 951-283-5601

HILLCREST
CONTRACTING, INC.

Laura Lara

From: Kamran Saber
Sent: Thursday, April 16, 2015 9:41 AM
To: jason@hillcrestcontracting.com; z.Kamran Saber
Cc: Laura Lara; Ron Hadloc; jean@hillcrestcontracting.com; tolentinoleo@gmail.com
Subject: RE: Additional Working Day Request Due to Added Front St. Driveway

Approved.

Lauran and Ron,
Please make a note of that.

Thank you

Kamran Saber, PE
City Engineer
ksaber@covinaca.gov
(626) 384-5491

From: jason@hillcrestcontracting.com [mailto:jason@hillcrestcontracting.com]
Sent: Thursday, April 16, 2015 9:18 AM
To: Kamran Saber; z.Kamran Saber
Cc: Laura Lara; Ron Hadloc; jean@hillcrestcontracting.com
Subject: Additional Working Day Request Due to Added Front St. Driveway

Please find our request for Additional Working Day Due to Added Front St. Driveway attached.

Thank you,

Jason G. Jones
Hillcrest Contracting, Inc.
Office: 951-273-9600 x-120
Mobile: 951-283-5601

HILLCREST
CONTRACTING, INC.

HILLCREST CONTRACTING

General Engineering Contractors License #471664A

April 16, 2015

Mr. Kamran Sabar
City Engineer
City of Covina
125 E. College St.
Covina, CA 91723

RE: Request for Additional Working Days Due to Addition of Front St. Driveway - Covina Pedestrian and Metrolink Improvements

Dear Mr. Sabar:

Hillcrest Contracting requests that an additional 3 working days be added to the contract project timeline due to addition of the Front St. driveway.

Please call me at 951-283-5601 if you are need of any additional information relating to this letter.

Sincerely,

Jason G. Jones
Project Manager
Hillcrest Contracting, Inc.

P.O. Box 1898 • Corona, California, 92878-1898 • (951) 273-9600 • FAX (951) 273-9608

CITY OF COVINA

125 East College Street ● Covina, California 91723-2199
www.covinaca.gov

PUBLIC WORKS DEPARTMENT

Engineering (626) 384-5490 FAX (626) 384-5479

CHANGE ORDER

Change Order No. 6

DATE: April 15, 2015
PROJECT NO. T-0814B Federal Project No. HPLUL-5118(016)
CONTRACT: Pedestrian and Metrolink Improvements Project
CONTRACTOR: Hillcrest Contracting, Incorporated.

Power relocation to the irrigation controller cabinet.

1. Furnish and install conduit and extend to new irrigation controller location.

Total increase = $1,532.64

2. Time Extension: 3 days

3. Change in contract cost: Increase of $1,532.64

Submitted by _____ Date 4-15-15
Title: City Engineer

Accepted by: _____ Date 5/26/15
Title: Contractor, Hillcrest Contacting, Inc.

Approved by: _____ Date_____
Title: Public Works Director

The City of Covina provides responsive municipal services and manages public resources to enhance the quality of life for our community.

Laura Lara

From: Kamran Saber <KSaber@jmdiaz.com>
Sent: Wednesday, April 15, 2015 3:52 PM
To: jean@hillcrestcontracting.com; Kamran Saber; Laura Lara
Cc: jason@hillcrestcontracting.com; Juan Diaz
Subject: RE: #2618 Covina COR #006 & #007
Attachments: DOC041515-005.pdf

Hi Jason,

- Change Order # 6: Accepted as submitted
- Change Order #7: I need to see material (vendor's price quote) and labor cost breakdown.

Thank you

Kamran Saber, PE | Director, Transportation Services
JMDiaz, Inc. (JMD)

JMD

Los Angeles County
18645 East Gale Avenue | Suite 212 | City of Industry, CA 91748-1363
(626) 820-1137 Tel | (626) 820-1136 Fax

Orange County
2400 East Katella Avenue | Suite 800 | Anaheim, CA 92806
(714) 627-2447 Tel | (714) 627-2401 Fax
www.jmdiaz.com

From: jean@hillcrestcontracting.com [mailto:jean@hillcrestcontracting.com]
Sent: Wednesday, April 15, 2015 3:10 PM
To: Kamran Saber; 'llara@covinaca.gov'; Kamran Saber
Cc: jason@hillcrestcontracting.com
Subject: #2618 Covina COR #006 & #007

Kamran,
Attached are two change order requests for installing the irrigation controller on Front St. COR#006 is the electrical contractor portion for electrical power, COR#007 is for the landscaper to install the controller. We need your review and approval to proceed with the controller installation.

Thank you,

Jean Hellman
HILLCREST CONTRACTING, INC.
1467 Circle City Dr., Corona, CA 92879
P-(951) 273-9600x133/F-(951) 273-9608

HILLCREST
CONTRACTING, INC.

HILLCREST CONTRACTING, INC.

License No. 471664

April 10, 2015

City of Covina
125 East College St.
Covina, CA 91723
PH: 626-384-5483

ATTN: Laura Lara

REF: Pedestrian & Metrolink Station Improvements
Project No. T-0814B

RE: COR#006 - Power relocation to the Irrigation Controller Cabinet

Dear Laura,
We are requesting a change order for the additional work as follows:

Item	DATE PERFORMED	DESCRIPTION	QTY	U/M	UNIT PRICE	AMOUNT
1	N/A	Furnish & Install conduit & extend to new Irrigation Controller location	1	LS	$ 1,488.00	$ 1,488.00
MU	N/A	Mark-up 3%	1	LS	$ 44.64	$ 44.64
					TOTAL THIS REQUEST:	$ 1,532.64

If you have any questions, please contact me at (951) 273 9600 Ext. 120

Sincerely,

Jason C. Jones
Hillcrest Contracting, Inc.
JOB: 2618

MSE ELECTRIC, INC.

Lic # 822450, C10

CCO QUOTATION

Project Description:	Pedestrian and Metrolink Station City Project No. T-0814B
Owner/Contact:	City of Covina
Bid Date:	April 9, 2015

Item #	Description of Work	Quantity	Unit	Unit Price	Extension
1	Furnish & Install (20') 1" pvc sch 40 conduit, (100') # 10 awg, intercept existing conduit and extend to new Irrigation Controller location. Terminate and splice.	1	Ls	$1,488.00	1,488.00
				Grand Total	**$ 1,488.00**

EXCLUSIONS: Bond, survey, permits and fees, inspection fees, engineering fees, utility fees, railroad insurance and training, signage & striping.

Prepared by: **Kevin Moore**

4938 E. La Palma Ave. Anaheim, CA 92807 - Tel (714) 693-4837, Fax (714)693-4838
Mobile # (714) 713-2409
SBE Cert #59314

CITY OF COVINA

125 East College Street ● Covina, California 91723-2199
www.covinaca.gov

PUBLIC WORKS DEPARTMENT

Engineering (626) 384-5490 FAX (626) 384-5479

CHANGE ORDER

Change Order No. 7

DATE: April 22, 2015
PROJECT NO. T-0814B Federal Project No. HPLUL-5118(016)
CONTRACT: Pedestrian and Metrolink Improvements Project
CONTRACTOR: Hillcrest Contracting, Incorporated.

Install New Irrigation Controller at front Street Location

1. Rainbird ESP12LXMEF, Rainbird ET Manager Cartridge, Rainbird rain sensor RSD-CEX, Rainbird stainless steel cabinet and pedestal.

   Total increase = $3,535.99

2. Time Extension: None.

3. Change in contract cost: Increase of $3,535.99

Submitted by Kevin Sabo Date 4-22-15
Title: City Engineer

Accepted by: [illegible] Date 5/26/15
Title: Contractor, Hillcrest Contacting, Inc.

Approved by: _____ Date _____
Title: Public Works Director

The City of Covina provides responsive municipal services and manages public resources to enhance the quality of life for our community.

Laura Lara

From: Kamran Saber
Sent: Wednesday, April 22, 2015 8:16 AM
To: jean@hillcrestcontracting.com; z.Kamran Saber; Laura Lara
Cc: jason@hillcrestcontracting.com; tolentinoleo@gmail.com
Subject: RE: Covina Metrolink Revised COR#007

Jean,
It is accepted as submitted.

Thank you

Kamran Saber, PE
City Engineer
ksaber@covinaca.gov
(626) 384-5491

From: jean@hillcrestcontracting.com [mailto:jean@hillcrestcontracting.com]
Sent: Wednesday, April 22, 2015 8:08 AM
To: Kamran Saber; z.Kamran Saber; Laura Lara
Cc: jason@hillcrestcontracting.com
Subject: Covina Metrolink Revised COR#007

Kamran,
Attached is our **Revised COR#007** – Install New Irrigation Controller at Front St. location which has a price reduction for your review.

Thank you,

Jean Hellman

HILLCREST CONTRACTING, INC.
1467 Circle City Dr., Corona, CA 92879
P-(951) 273-9600x133/F-(951) 273-9608

HILLCREST
CONTRACTING, INC.

HILLCREST CONTRACTING, INC.

License No. 471664

April 15, 2015 Revised 4/21/2015

City of Covina
125 East College St.
Covina, CA 91723
PH: 626-384-5483

ATTN: Laura Lara

REF: Pedestrian & Metrolink Station Improvements
Project No. T-0814B

RE: **REVISED COR#007** - Install New Irrigation Controller at Front St. location

Dear Laura,
We are requesting a change order for the additional work as follows:

Item	DATE PERFORMED	DESCRIPTION	QTY	U/M	UNIT PRICE	AMOUNT
1	N/A	Rainbird ESP12LXMEF, Rainbird ET Manager Cartridge, Rainbird rain sensor & Rainbird stainless steel cabinet & pedestal	1	LS	$ 3,433.00	$ 3,433.00
MU	N/A	Mark-up 3%	1	LS	$ 102.99	$ 102.99
					TOTAL THIS REQUEST:	$ 3,535.99

If you have any questions, please contact me at (951) 273 9600 Ext. 120

Sincerely,

Jason G. Jones
Hillcrest Contracting, Inc.
JOB: 2618

BLUE DIAMOND LANDSCAPE INC.

<> REQUEST FOR CHANGE ORDER <>

R.C.O: 002

April 20, 2015

HILLCREST CONSTRUCTION
ATTN.: JASON G. JONES
1467 CIRCLE CITY DR.
CORONA, CA
T - (951) 273-9600
F - (951) 273-9608

JOB NAME: PEDESTRIAN AND METROLINK STATION IMPROVEMENTS
LOCATION: COVINA, CA

REQUEST FOR CHANGE ORDER: REMOVAL AND TURNOVER SALVAGABLE IRRIGATION TO CITY PER LINE ITEM NO: 66

BASE BID:

ITEM	DESCRIPTION	UNIT	QTY	U/M PRICE	EXTENSION
1	*RAINBIRDESP12LXMEF, RAINBIRD ET MANAGER, CARTRIDGE, RAINBIRD RAIN SENSOR AND STAINLESS STELL CABINET*	LS	1	$2,052.00	$2,052.00
2	*RAINBIRD STAINLESS STEEL ENCLOSURE PEDESTAL*	LS	1	$1,381.00	$1,381.00
		TOTAL			**$3,433.00**

NOTES:

1 ELECTRICAL HOOK UP BY OTHERS

<> REQUEST FOR CHANGE ORDER <>

GENERAL CONDITIONS:

1. Proposal based on plans and specifications by:
   Architect: LAWRENCE R. MOSS AND ASSOCIATES
   Plan Sheets: 15 OF 32 THRU 28 OF 32
   Plans Dated: 08/05/14
   Specifications: PER CONSTRUCTION PROVISIONS
   Addendums: 1
2. Bid is based on a five-day work week (Mon. through Fri.), 8 hour day maximum. All requested overtime work to be billed as extra. And w/ prior consent and authorization from the owner/client.
3. Contractor shall hold subcontractor harmless for damaged utility lines which are not buried to the depth specified by the utility companies. In addition, there will be an extra charge for all drain lines or pipes required to be placed deeper than shown on the plans.
4. Any rock, concrete or other hard surfaces that cannot be excavated or trenched through using normal methods (i.e backhoe with excavation bucket, trencher with digging cups) will be deemed as an addition to contract and and will be performed on time and material after written approval by owner or owner's representative.
5. All costs for obtaining, transporting and utilization of water for construction, hydroseeding or irrigation are *(Not inc.)*
6. Grade to be received by Blue Diamond Landscape, Inc. at -.10' of finish grade, and in a weed-free condition unless noted otherwise. *(No rough grading & import / export of soil included)*
7. Blue Diamond Landscape will not be responsible for damage due to poor soil conditions, rodents, vandalism, theft and/or 'Acts of God'
8. Water/electric meters, hot taps, water costs, permits, power to controllers, and utility costs *(By others)*
9. Bid is based on two mobilizations. Any additional mobilizations will be at a cost of $1,250.00 each.
10. Any specimen trees, park furniture, etc. will require a 50% deposit to initiate order.Payment from the owner/client to Blue Diamond Landscape, Inc. prior to placeing order. Balance to paid at time of delivery.
11. Sleeving to be installed prior to asphalt or concrete. *(No saw cutting, patching and boring included)*
12. Due to current market trends, pricing for palm trees are good for (30) days and may be subject to availability.
13. This bid proposal will be considered a part of the contract if Blue Diamond Landscape, Inc. is awarded the contract. It can either be an exhibit to the contract, or its pertinent points may be added to the contract.
14. Our proposal excludes any and all bonds.
15. Hand/manual watering of plant material due to no water or electrical power to controller will be an add. cost.
16. Payment schedule: Progressive monthly payments for all work completed and accepted. Five (5%) percent retention of progress amount may be held for thirty (30) days from the date of last invoice. All invoice paid after (45) days will be subject to 3% interest thereafter.
17. Should this proposal be used to list us for this project all terms,conditions, exclusions and qualifications of this proposal are being accepted.

EXCLUSIONS: (Unless specifically itemized above)

1. Water/electric meters, services and hot taps, power to irrigation controllers, permits, water costs and lighting
2. Concrete, masonry, rough grading, import/export of soil, demolition, clearing, grubbing, SWPP, erosion control.
3. Drainage, downspout connections, coring, boring or saw-cutting, pest control, restoration and or retrofitting,
4. Waterproofing, pottery, site furniture, fencing, overtime and traffic control

KEY NOTES:

1. This proposal is based on State Prev. Wages.
2. If you require a waiver of subrogation add a additional $340.00 to the base bid.
3.
4.

Thank you for your consideration. Should you have any questions, **please contact us at (951) 278-3801.**

Respectfully Submitted,

Estimating Department
(License: #799647)

CITY OF COVINA

125 East College Street ● Covina, California 91723-2199
www.covinaca.gov

PUBLIC WORKS DEPARTMENT

Engineering (626) 384-5490 FAX (626) 384-5479

CHANGE ORDER

Change Order No. 10

DATE: May 5, 2015
PROJECT NO. T-0814B Federal Project No. HPLUL-5118(016)
CONTRACT: Pedestrian and Metrolink Improvements Project
CONTRACTOR: Hillcrest Contracting, Incorporated.

Additional conductors and conduit for Flow Sensor and Master Valve for Relocation of POC from the west end of the Metrolink Parking lot to the east end.

1. Additional conductors and conduit for flow sensor and master valve for relocation of POC from the west end of the Metrolink Parking lot to the east end.

   Total increase = $1,862.19

2. Time Extension: None.

3. Change in contract cost: Increase of $1,862.19

Submitted by Kelvin Sabu Date 5-5-15
Title: City Engineer

Accepted by: [illegible] Date 5/26/15
Title: Contractor, Hillcrest Contacting, Inc.

Approved by: _____ Date_____
Title: Public Works Director

The City of Covina provides responsive municipal services and manages public resources to enhance the quality of life for our community.

Laura Lara

From: Kamran Saber
Sent: Tuesday, May 05, 2015 3:53 PM
To: jason@hillcrestcontracting.com; z.Kamran Saber
Cc: Laura Lara; Ron Hadloc; jean@hillcrestcontracting.com; Juan Diaz; Kristen Weger; Alex Gonzalez
Subject: RE: COR #~~009~~ 10 - Additional Conductors and Conduit for New P.O.C.

Accepted as submitted.

Thank you
Kamran Saber, PE
City Engineer
ksaber@covinaca.gov
(626) 384-5491

From: jason@hillcrestcontracting.com [mailto:jason@hillcrestcontracting.com]
Sent: Friday, May 01, 2015 9:36 AM
To: Kamran Saber; z.Kamran Saber
Cc: Laura Lara; Ron Hadloc; jean@hillcrestcontracting.com
Subject: COR #009 - Additional Conductors and Conduit for New P.O.C.

Please find COR #009 - Additional Conductors and Conduit for New P.O.C. attached for your review. Thank you.

Thank you,

Jason G. Jones
Hillcrest Contracting, Inc.
Office: 951-273-9600 x-120
Mobile: 951-283-5601

HILLCREST
CONTRACTING, INC.

HILLCREST CONTRACTING, INC.

License No. 471664

May 2, 2015

City of Covina
125 East College St.
Covina, CA 91723
PH: 626-384-5483

ATTN: Laura Lara

REF: Pedestrian & Metrolink Station Improvements
Project No. T-0814B

RE: COR#009 - Additional Conductors and Conduit for for Flow Sensor and Master Valve for Relocation of P.O.C. form the West End of the Metrolink Parking Lot to the East End

Dear Laura,
We are requesting a change order for the additional work as follows:

Item	DATE PERFORMED	DESCRIPTION	QTY	U/M	UNIT PRICE	AMOUNT
1	N/A	Additional Conductors and Conduit for for Flow Sensor and Master Valve for Relocation of P.O.C. form the West End of the Metrolink Parking Lot to the East End	1	LS	$ 1,807.95	$ 1,807.95
MU	N/A	Mark-up 3%	1	LS	$ 54.24	$ 54.24
					TOTAL THIS REQUEST:	$ 1,862.19

If you have any questions, please contact me at (951) 273 9600 Ext. 120

Sincerely,

Jason G. Jones
Hillcrest Contracting, Inc.
JOB: 2618

BLUE DIAMOND LANDSCAPE INC.

<> REQUEST FOR CHANGE ORDER <>

R.C.O: 004

May 1, 2015

HILLCREST CONSTRUCTION
ATTN.: JASON G. JONES
1467 CIRCLE CITY DR.
CORONA, CA
T - (951) 273-9600
F - (951) 273-9608

JOB NAME: PEDESTRIAN AND METROLINK STATION IMPROVEMENTS
LOCATION: COVINA, CA

REQUEST FOR CHANGE ORDER: ADDITIONAL CONDUCTORS AND CONDUIT FOR FLOW SENSOR AND MASTI VALVE FOR RELOCATION OF P.O.C. FROM WEST END OF PARKING LOT TO EAST END

BASE BID:

ITEM	DESCRIPTION	UNIT	QTY	U/M PRICE	EXTENSION
1	*2 WIRE SHIELDED CABLE WITH 1/2" CONDUIT*	LF	650	$0.98	$637.00
2	*#14 DIRECT BURIAL CABLE*	LF	1,300	$0.11	$143.00
3	*PULL BOXES*	EA	3	$34.25	$102.75
4	*LABOR*	HR	8	$60.65	$485.20
5	*MINI EXCAVATOR*	HR	8	$55.00	$440.00
		TOTAL			**$1,807.95**

<> REQUEST FOR CHANGE ORDER <>

GENERAL CONDITIONS:

1. Proposal based on plans and specifications by:
   Architect: LAWRENCE R. MOSS AND ASSOCIATES
   Plan Sheets: 15 OF 32 THRU 28 OF 32
   Plans Dated: 08/05/14
   Specifications: PER CONSTRUCTION PROVISIONS
   Addendums: 1
2. Bid is based on a five-day work week (Mon. through Fri.), 8 hour day maximum. All requested overtime work to be billed as extra. And w/ prior consent and authorization from the owner/client.
3. Contractor shall hold subcontractor harmless for damaged utility lines which are not buried to the depth specified by the utility companies. In addition, there will be an extra charge for all drain lines or pipes required to be placed deeper than shown on the plans.
4. Any rock, concrete or other hard surfaces that cannot be excavated or trenched through using normal methods (i.e backhoe with excavation bucket, trencher with digging cups) will be deemed as an addition to contract and and will be performed on time and material after written approval by owner or owner's representative.
5. All costs for obtaining, transporting and utilization of water for construction, hydroseeding or irrigation are *(Not inc.)*
6. Grade to be received by Blue Diamond Landscape, Inc. at -.10' of finish grade, and in a weed-free condition unless noted otherwise. *(No rough grading & import / export of soil included)*
7. Blue Diamond Landscape will not be responsible for damage due to poor soil conditions, rodents, vandalism, theft and/or 'Acts of God'
8. Water/electric meters, hot taps, water costs, permits, power to controllers, and utility costs *(By others)*
9. Bid is based on two mobilizations. Any additional mobilizations will be at a cost of $1,250.00 each.
10. Any specimen trees, park furniture, etc. will require a 50% deposit to initiate order.Payment from the owner/client to Blue Diamond Landscape, Inc. prior to placeing order. Balance to paid at time of delivery.
11. Sleeving to be installed prior to asphalt or concrete. *(No saw cutting, patching and boring included)*
12. Due to current market trends, pricing for palm trees are good for (30) days and may be subject to availability.
13. This bid proposal will be considered a part of the contract if Blue Diamond Landscape, Inc. is awarded the contract. It can either be an exhibit to the contract, or its pertinent points may be added to the contract.
14. Our proposal excludes any and all bonds.
15. Hand/manual watering of plant material due to no water or electrical power to controller will be an add. cost.
16. Payment schedule: Progressive monthly payments for all work completed and accepted. Five (5%) percent retention of progress amount may be held for thirty (30) days from the date of last invoice. All invoice paid after (45) days will be subject to 3% interest thereafter.
17. Should this proposal be used to list us for this project all terms,conditions, exclusions and qualifications of this proposal are being accepted.

EXCLUSIONS: (Unless specifically itemized above)

1. Water/electric meters, services and hot taps, power to irrigation controllers, permits, water costs and lighting
2. Concrete, masonry, rough grading, import/export of soil, demolition, clearing, grubbing, SWPP, erosion control.
3. Drainage, downspout connections, coring, boring or saw-cutting, pest control, restoration and or retrofitting,
4. Waterproofing, pottery, site furniture, fencing, overtime and traffic control

KEY NOTES:

1. This proposal is based on State Prev. Wages.
2. If you require a waiver of subrogation add a additional $340.00 to the base bid.
3.
4.

Thank you for your consideration. Should you have any questions, **please contact us at (951) 278-3801.**

Respectfully Submitted,

Estimating Department
(License: #799647)

*1240 E. ONTARIO AVE., SUITE 102 CORONA, CA 92881 * T.951.278.3801 * F.951.278.3816*

CITY OF COVINA

125 East College Street ● Covina, California 91723-2199
www.covinaca.gov

PUBLIC WORKS DEPARTMENT

Engineering (626) 384-5490 FAX (626) 384-5479

CHANGE ORDER

Change Order No. 12

DATE: May 13, 2015
PROJECT NO. T-0814B Federal Project No. HPLUL-5118(016)
CONTRACT: Pedestrian and Metrolink Improvements Project
CONTRACTOR: Hillcrest Contracting, Incorporated.

Lower existing conduits, remove pull box and install traffic rated pull box.

1. Lower existing conduits, remove pull box and install #3-1/2 traffic rated pull box encase with galvanized steel lid.

Total increase = $ 3,450.50

2. Time Extension: None.

3. Change in contract cost: Increase of $3,450.50

Submitted by _____ Date 5-13-15
Title: City Engineer

Accepted by: _____ Date 5/26/15
Title: Contractor, Hillcrest Contacting, Inc.

Approved by: _____ Date_____
Title: Public Works Director

The City of Covina provides responsive municipal services and manages public resources to enhance the quality of life for our community.

Laura Lara

From: Kamran Saber
Sent: Wednesday, May 13, 2015 10:51 AM
To: jason@hillcrestcontracting.com; z.Kamran Saber
Cc: Laura Lara; jean@hillcrestcontracting.com; Juan Diaz; tolentinoleo@gmail.com
Subject: RE: COR #0~~1~~1 - Lower Existing Conduits, Remove Pull Box and Install #3-1/2 Traffic Rated Pull Box 12

Jason,
The COR #011 is accepted as submitted.

Thank you

Kamran Saber, PE
City Engineer
ksaber@covinaca.gov
(626) 384-5491

From: jason@hillcrestcontracting.com [mailto:jason@hillcrestcontracting.com]
Sent: Wednesday, May 06, 2015 3:37 PM
To: Kamran Saber; z.Kamran Saber
Cc: Laura Lara; jean@hillcrestcontracting.com
Subject: COR #011 - Lower Existing Conduits, Remove Pull Box and Install #3-1/2 Traffic Rated Pull Box

Kamran,
COR #011 - Lower Existing Conduits, Remove Pull Box and Install #3-1/2 Traffic Rated Pull Box is attached for your review and approval.

Thank you,

Jason G. Jones
Hillcrest Contracting, Inc.
Office: 951-273-9600 x-120
Mobile: 951-283-5601

HILLCREST
CONTRACTING, INC.

HILLCREST CONTRACTING, INC.

License No. 471664

May 6, 2015

City of Covina
125 East College St.
Covina, CA 91723
PH: 626-384-5483

ATTN: Laura Lara

REF: Pedestrian & Metrolink Station Improvements
Project No. T-0814B

RE: COR#011 - Lower Existing Conduits, Remove Pull Box and Install #3-1/2 Traffic Rated Pull Box

Dear Laura,
We are requesting a change order for the additional work as follows:

Item	DATE PERFORMED	DESCRIPTION	QTY	U/M	UNIT PRICE	AMOUNT
1	N/A	Lower Existing Conduits, Remove Pull Box and Install #3-1/2 Traffic Rated Pull Box	1	LS	$ 3,450.50	$ 3,450.50
					TOTAL THIS REQUEST:	$ 3,450.50

If you have any questions, please contact me at (951) 273 9600 Ext. 120

Sincerely,

Jason G. Jones
Hillcrest Contracting, Inc.
JOB: 2618

MSI ELECTRIC, INC.

Lic # 822450, C10

CCO QUOTATION

Project Description:	Pedestrian and Metrolink Station City Project No. T-0814B
Owner/Contact:	City of Covina
Bid Date:	May 6, 2015

Item #	Description of Work	Quantity	Unit	Unit Price	Extension
1	Remove Existing Pull Box, Lower Existing Conduits & Install # 3-1/2 traffic rated pull box - encased, with galvanized steel lid.	2	Ea	$1,675.00	3,350.00
				Grand Total	**$ 3,350.00**
				3% Hillcrest Mark-up	$ 100.50
					$3,450.50

EXCLUSIONS: Bond, survey, permits and fees, inspection fees, engineering fees, utility fees, railroad insurance and training, signage & striping.

Prepared by: **Kevin Moore**

4938 E. La Palma Ave. Anaheim, CA 92807 - Tel (714) 693-4837, Fax (714)693-4838
Mobile # (714) 713-2409
SBE Cert #59314

CITY OF COVINA

125 East College Street ● Covina, California 91723-2199
www.covinaca.gov

PUBLIC WORKS DEPARTMENT

Engineering (626) 384-5490 FAX (626) 384-5479

CHANGE ORDER

Change Order No. 13

DATE: May 13, 2015
PROJECT NO. T-0814B Federal Project No. HPLUL-5118(016)
CONTRACT: Pedestrian and Metrolink Improvements Project
CONTRACTOR: Hillcrest Contracting, Incorporated.

Additional water service line needed due to new point of connection.

1. 470 LF of additional 1" PVC SCH80 water service due to new point of connection.

Total increase = $ 789.08

2. Time Extension: None.

3. Change in contract cost: Increase of $789.08

Submitted by Kelvin Sahu Date 5-18-15
Title: City Engineer

Accepted by: Date 5/26/15
Title: Contractor, Hillcrest Contacting, Inc.

Approved by: Date
Title: Public Works Director

The City of Covina provides responsive municipal services and manages public resources to enhance the quality of life for our community.

Laura Lara

From: Kamran Saber
Sent: Wednesday, May 13, 2015 10:48 AM
To: jason@hillcrestcontracting.com; z.Kamran Saber
Cc: Laura Lara; Ron Hadloc
Subject: RE: COR #013 - 470 LF of Additional 1" PVC SCH80 Water Service Due to New P.O.C. is attached for your review and approval

Jason,
Your COR #13 is accepted as submitted.

Thank you

Kamran Saber, PE
City Engineer
ksaber@covinaca.gov
(626) 384-5491

From: jason@hillcrestcontracting.com [mailto:jason@hillcrestcontracting.com]
Sent: Thursday, May 07, 2015 12:42 PM
To: Kamran Saber; z.Kamran Saber
Cc: Laura Lara; Ron Hadloc
Subject: COR #013 - 470 LF of Additional 1" PVC SCH80 Water Service Due to New P.O.C. is attached for your review and approval

Kamran,
COR #013 - 470 LF of Additional 1" PVC SCH80 Water Service Due to New P.O.C. is attached for your review and approval.

Thank you,

Jason G. Jones
Hillcrest Contracting, Inc.
Office: 951-273-9600 x-120
Mobile: 951-283-5601

HILLCREST
CONTRACTING, INC.

HILLCREST CONTRACTING, INC.

License No. 471664

May 7, 2015

City of Covina
125 East College St.
Covina, CA 91723
PH: 626-384-5483

ATTN: Laura Lara

REF: Pedestrian & Metrolink Station Improvements
Project No. T-0814B

RE: COR#013 - 470 LF of Additional 1" SCH80 Water Service Due to New P.O.C.

Dear Laura,
We are requesting a change order for the additional work as follows:

Item	DATE PERFORMED	DESCRIPTION	QTY	U/M	UNIT PRICE	AMOUNT
1	N/A	470 LF of Additional 1" PVC SCH80 Water Service Due to New P.O.C.	1	LS	$ 789.08	$ 789.08
					TOTAL THIS REQUEST:	$ 789.08

If you have any questions, please contact me at (951) 273 9600 Ext. 120

Sincerely,

Jason G. Jones
Hillcrest Contracting, Inc.
JOB: 2618

BLUE DIAMOND LANDSCAPE, INC.

LICENSE #799647

CLIENT:HILLCREST CONTRACTING
1467 Circle City Drive
Corona, Ca. 92879
951.273.9600 Office
951.273.9608 Fax

JOB NAME: METROLINK STATION COVINA
REQUEST CHANGE ORDER#: 3
RCO DATE: 5/6/15
REQUEST CHANGE ORDER TO:
JASON JONES

REQUEST CO

SCOPE OF WORK: *INSTALL 600LF OF 1IN MAINLINE SCH80 PIPE*

DESCRIPTION	U.O.M.	QTY	RATE	TOTAL
1IN. SCH80 PIPE	LF	600FT	$ 1.28	$ 768.00
1" SCH80 FITTINGS	EA	20	$ 0.85	$ 17.00
MATERIAL 5% O/P				$ 39.25
LABOR	HR	2.5	$ 52.74	$ 131.85
LABOR 15% O/P				$ 19.78

-130 LF

SUBTOTAL $ 975.88

TOTAL $ 975.88

600 LF

Signature Date

THANK YOU!

GRAND TOTAL $ 975.88 or $1.63/LF

Print Title

1240 E. ONTARIO AVE. SUITE 102, CORONA, CA. 92881 OFFICE 278.3801 FAX 951.278.3816

Additional Length
470 LF x $1.63 = $766.10
3% Hillcrest Mark-up 22.98
Total $789.08

CITY OF COVINA

125 East College Street ● Covina, California 91723-2199
www.covinaca.gov

PUBLIC WORKS DEPARTMENT

Engineering (626) 384-5490 FAX (626) 384-5479

CHANGE ORDER

Change Order No. 14

DATE: May 19, 2015
PROJECT NO. T-0814B Federal Project No. HPLUL-5118(016)
CONTRACT: Pedestrian and Metrolink Improvements Project
CONTRACTOR: Hillcrest Contracting, Incorporated.

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Additional line item 4, Concrete removals to 125% of Original Quantity remainder on T&M.

1. Additional Item 4- Concrete Removals to 125% per contract unit price 18 CY at $165/CY

   Total increase = $ 2,970.00

2. 180 CY additional of Item 4- Concrete Removals above 125% per T&M ($19,444.34/198 CY= $98.20/CY)

   Total increase = $ 17,676.00

3. Time Extension: 3 days

4. Change in contract cost: Increase of $ 20,646.00

.....

Submitted by _____ Date 5-19-15
Title: City Engineer

Accepted by: _____ Date 5/21/15
Title: Contractor/Hillcrest Contacting, Inc.

Approved by: _____ Date_____
Title: Public Works Director

The City of Covina provides responsive municipal services and manages public resources to enhance the quality of life for our community.

CITY OF COVINA
PEDESTRIAN AND METROLINK STATION IMPROVEMENTS PROJECT
PROJECT NO. T-0814B FEDERAL PROJECT NO. HPLUL-5118(016)
ON-SITE MEETING – CONSTRUCTION UPDATE
MAY 19, 2015
9:0 AM

TO: **Meeting Attendees**

FROM: **Kristen Weger, City of Covina**

DATE: **May 19, 2015**

SUBJECT: **City Project No. T-0814B**

Meeting Participants

Kamran Saber, City of Covina
Laura Lara, City of Covina
Ron Hadloc, City of Covina
Kristen Weger, City of Covina
Anne Perkins-Yin, City of Covina
Leo Tolentino, City of Covina
Jason Jones, Hillcrest Contracting
Bill Tremble, Hillcrest Contracting
Jerry Blair, Hillcrest Contracting
Juan Diaz, JMDiaz, Inc.

Change Orders

- Change Order No. 14 for additional concrete removals, item 4 of the line items was approved per Kamran.
- Change Order No. 15 for additional asphalt concrete removals on T&M will be pulled per Jason. Contractor to bill under unclassified excavation by CY after a final quantity count has been determined.
- Jason to provide a change order for the six (6) additional planter pots and raised planter foundations which include EG pedestal, NPDES green design and stabilizers. No brick shall be used.

Schedule – Three (3) Week Look Ahead

- An updated schedule was not submitted.

Submittal Status:

- No submittals were submitted.

Request for Information (RFI):

- No RFIs were submitted.

Construction Observations:

- Fence near platform is rocking. Metrolink is requiring the City to repair the rocking fence near the platform. Hillcrest will provide a quote for the repair work. Tubular railing shall be installed with bolts and brackets affixed to existing railing. Jason to submit a quote

Plan Clarifications:

- Jason expressed the signage subcontractors concern in relation to the enamel finish. Juan will contact Jason at SKA to confirm if any changes can be made to signage enamel. However, the project must comply with Metrolink requirements.
- BIG needs six (6) weeks to build the prefabricated restroom unit. Hillcrest will set the structure. Restroom fixtures will be provided but will need to be hooked up and connected.

Outstanding Items:

- Jason to provide a quote for chopping off the curb nose in the median and placing curb back.
- Bill will add wheelchair ramp on northside of driveway entrance to parking lot. Contractor to bill per line item 13 curb ramp any additional work completed will be paid per T&M.

Meeting adjourned: 10:47 AM
Meeting notes submitted by Kristen Weger

HILLCREST CONTRACTING, INC.

License No. 471664

May 12, 2015

City of Covina
125 East College St.
Covina, CA 91723
PH: 626-384-5483

ATTN: Laura Lara

REF: Pedestrian & Metrolink Station Improvements
Project No. T-0814B

RE: COR#014 - Additional Item 4 - Concrete Removals to 125% of Original Quantity and Remainder on T&M

Dear Laura,
We are requesting a change order for the additional work as follows:

Item	DATE PERFORMED	DESCRIPTION	QTY	U/M	UNIT PRICE	AMOUNT
1	04/23/15	Additional Item 4 - Concrete Removals to 125% per Contract Unit Price	18	CY	$ 165.00	$ 2,970.00
2	4/23/15, 4/24/15 & 4/27/15	Additional Item 4 - Concrete Removals to 125% per T&M (198 CY/$19,444.34 = $98.20 CY)	180	CY	$ 98.20	$ 17,676.00
					TOTAL THIS REQUEST:	$ 20,646.00

If you have any questions, please contact me at (951) 273 9600 Ext. 120

Sincerely,

Jason G. Jones
Hillcrest Contracting, Inc.
JOB: 2618

DAILY EXTRA WORK REPORT

Date Performed 4/23/15		CCO. No.1	Report No. 48232
Date of Report 5/6/15		Amount Auth.	Prevailing Wage
		Prev. Expen.	$
		Today	$
Project:	City of Covina, Pedestrian & Metrolink Station Imp.	To Date	$
Work Performed By:	HILLCREST CONTRACTING		
Description of Work	Removal of concrete at Parking Lot on T&M		

Equip. Code	Equipment	Hours	Hourly Rate	Total Amounts	Labor	#	Hours	Hourly Rate	Total Amount
	Foreman Pick-up	8.00	$ 30.00	$ 240.00	Foreman - Tremble		8.00	$ 87.17	$ 697.36
	Skiploader	3.00	$ 72.00	$ 216.00	Laborer - Diaz		8.00	$ 70.75	$ 566.00
	Bobcat	8.00	$ 80.00	$ 640.00	Laboror - White		5.00	$ 70.75	$ 353.75
	Super Dump - R. Wood	5.00	$ 86.00	$ 430.00	Operator - White		3.00	$ 82.53	$ 247.59
	Super Dump - Ramos	10.30	$ 78.00	$ 803.40	Operator - Martinez		10.00	$ 82.53	$ 825.30
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
	EQUIPMENT TOTAL		(B)	$ 2,329.40					$ -

MATERIAL and/or WORK done by Specialists

Description	No. Unit	Unit Cost						
					SUB-TOTAL		(A)	$ 2,690.00
				Burden (Overhead 33%)				
Dump Fees (1 LD at 90.00 /Load)	1.00	$ 90.00	$ 90.00	Subsistence	No.			$ -
Dump Fees (8 LDS at $125.00/Load)	8.00	$ 125.00	$ 1,000.00	Travel Expense	No.			$ -
			$ -	Equipment Moves			200.00	$ -
				TOTAL COST OF LABOR			A	$ 2,690.00
							B	$ 2,329.40
Total Cost of Materials and Work		(C)	$ 1,090.00	---------->			C	$ 1,090.00
				+20 % On Labor Cost			(A)	$ 538.00
				+15% on Equipment- Material & Work Cost			(B)	$ 349.41
				+10% on Material			(C)	$ 109.00
				TOTAL THIS REPORT				**$ 7,105.81**

Contractor's Representative
ACCEPTED FOR PROGRESS PAYMENT

Project Engineer

HILLCREST CONTRACTING

48232

General Engineering Contractors

P.O. Box 1898 • Corona, CA 91718-1898

AUTHORIZATION FOR EXTRA WORK OR CHANGE IN PLANS

CUSTOMER'S NO. _____ JOB. NO. 2618 ITEM NO. _____ DATE 4/23/15

BILL TO: CITY OF COVINA

LOCATION OF WORK: METROLINK PARKING LOT

DESCRIPTION OF WORK: REMOVAL OF CONCRETE AT PARKING LOT (81 CY)

ESTIMATOR: JASON JONES

TYPE OF LABOR, EQUIPMENT OR MATERIALS USED	FOR OFFICE USE ONLY HOURS/ QUANTITY	RATE	
FOREMAN	8	x 87.17	= 697.36
PICK-UP	8	x 30.00	= 240.00
LABORER	13	x 70.75	= 919.75
OPERATOR	13	x 82.53	= 1072.89
SKIPLOADER	3	x 72.00	= 216.00
BOBCAT	8	x 80.00	= 640.00
DUMP FEE ENGELAUF	1 LOAD	x 90.00	= 90.00
DUMP FEE L.B. CRUSHING	8 LOADS	x 125.00	= 1000.00
SUPER DUMP ROGER WOOD	5	x 86.00	= 430.00
SUPER DUMP RAMOS	10.3	x 78.00	= 803.40
		x	=
		x	=
		x	=
	SUBTOTAL:		
	TOTAL:	6109.40 + MU	

FORM NO. 001 (REV. 8/99)

Hillcrest Representative

Customer's Representative

WHEN WORK IS DONE ON EQUIPMENT RENTAL BASIS LIST ALL EQUIPMENT USED AND NUMBER OF HOURS USED.

WHITE - Office Copy CANARY - Customer Copy PINK - Field Copy

Daily Time Sheet

Thursday

Date: 4/23/2015 **Job No:** 2618 **PEDESTRIAN - METROLINK STATION**

Map Page: **Cross Streets:**

Cust. Rep: **Foreman:** 8580 Tremble, William **Proj. Mgr:** JERRY BLAIR

JB JS AL

STREETS WORKED ON THIS DAY: METROLINK PARKING LOT

STATION/LOTS/LOCATION OF WORK:

Job Codes:

	Item/Act. No		Item Descr.	Bid Quantity	Daily Qty.	Materials Used	U / M
A1	04	A	CONC REMOVAL IN METROLINK PARKING LOT				
AEW:			9 Loads w/ Super Dump 72 CY.				
A2						0.0	
AEW:							
A3						0.0	
AEW:							
A4						0.0	
AEW:							
A5						0.0	
AEW:							
A6						0.0	
AEW:							
A7						0.0	
AEW:							

C-Contract Work, X-Extra Work, T-T&M Work ==> LUNCH 12:00 to 12:30

							Total
	094						

Comment ==> Material today is from: Phone No: ( ) Person:

IN	Home Depot 3150		$13.77							$13.77	out
7:30	A 1A8 LABOR APP 1 SPC 1838 Diaz, Juan Gomez	✓	8							8	3:00
11	A GENFOR Foreman 8580 Tremble, William	✓	8							8	11
4	A 1A LABOR SPEC 1 9350 White, Kenneth	✓	5							5	11
11	A 001 OPER 2 SP 1 5486 Martinez, Heriberto	✓	10							10	5:00
	9950 SKIP OPERATOR White Kenny	✓	3							3	
	Dump Fee Enslave		1	Load	$90.00					1 Load	
	E BCAT Bobcat R464 Bobcat-Heriberto	✓	8							8	
	Dump Fee LB. CRUSHING	✓	8	Loads	AT	125.00				8 Load	
	E SKP Skiploader R457 Skiploader 4WD	✓	3							3	
	E TRPU Pickup Truck R598 PICKUP TRUCK-Bill	✓	8							8	
	E Rosen Wood Super-Dump	✓	5							5	
	Super Dump Ramos	✓	10.3							10.3	

Hillcrest Contracting, Corona, Ca.
Phone No. (909) 273-9600
FAX: (909) 273-9608

Date: 4/23/201 **Job No:** 2618

Removal of Conc 9 Load.
72. C.Y. NO SUB WORKING ON JOB TODAY

DAILY EXTRA WORK REPORT

Date Performed 4/24/15		CCO. No.1	Report No. 48231
Date of Report 5/6/15		Amount Auth.	Prevailing Wage
		Prev. Expen.	$
		Today	$
Project:	City of Covina, Pedestrian & Metrolink Station Imp.	To Date	$
Work Performed By:	HILLCREST CONTRACTING		
Description of Work	Removal of concrete at Parking Lot on T&M		

Equip. Code	Equipment	Hours	Hourly Rate	Total Amounts	Labor	#	Hours	Hourly Rate	Total Amount
	Foreman Pick-up	8.00	$ 30.00	$ 240.00	Foreman - Tremble		8.00	$ 87.17	$ 697.36
	Skiploader	8.00	$ 72.00	$ 576.00	Laborer - Diaz		8.00	$ 70.75	$ 566.00
	Bobcat	8.00	$ 80.00	$ 640.00					$ -
				$ -	Operator - White		8.00	$ 82.53	$ 660.24
	Super Dump - Ramos	15.50	$ 78.00	$ 1,209.00	Operator - Martinez		10.00	$ 82.53	$ 825.30
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
	EQUIPMENT TOTAL		(B)	$ 2,665.00					$ -
	MATERIAL and/or WORK done by Specialists								

Description	No. Unit	Unit Cost						
						SUB-TOTAL	(A)	$ 2,748.90
				Burden (Overhead 33%)				
			$ -	Subsistence	No.			$ -
Dump Fees (11 LDS at $125.00/Load)	11.00	$ 125.00	$ 1,375.00	Travel Expense	No.			$ -
			$ -	Equipment Moves			200.00	$ -
			$ -	TOTAL COST OF LABOR			A	$ 2,748.90
							B	$ 2,665.00
Total Cost of Materials and Work		(C)	1,375.00	---------->			C	$ 1,375.00
				+20 % On Labor Cost			(A)	$ 549.78
				+15% on Equipment- Material & Work Cost			(B)	$ 399.75
				+10% on Material			(C)	$ 137.50
				Subtotal				
				TOTAL THIS REPORT				**$ 7,875.93**

Contractor's Representative
ACCEPTED FOR PROGRESS PAYMENT

Project Engineer

HILLCREST CONTRACTING

48231

General Engineering Contractors

P.O. Box 1898 • Corona, CA 91718-1898

AUTHORIZATION FOR EXTRA WORK OR CHANGE IN PLANS

CUSTOMER'S NO. _____ JOB. NO. 2618 ITEM NO. _____ DATE 4/24/15

BILL TO: CITY OF COVINA

LOCATION OF WORK: METROLINK PARKING LOT

DESCRIPTION OF WORK: REMOVAL OF CONCRETE AT PARKING LOT (99 CY)

ESTIMATOR: JASON JONES

TYPE OF LABOR, EQUIPMENT OR MATERIALS USED	FOR OFFICE USE ONLY HOURS/ QUANTITY	RATE	
FOREMAN	8 ✓	x 87.17	= 697.36
PICK-UP	8	x 30.00	= 240.00
OPERATORS	18 ✓	x 82.53	= 1485.54
LABORER	8 ✓	x 70.75	= 566.00
SKIPLOADER	8	x 72.00	= 576.00
BOBCAT	8	x 80.00	= 640.00
RAMOS TRUCKING	15 1/2	x 78.00	= 1209.00
DUMP FEE L.B. CRUSHING	11 LOADS	x 125.00	= 1375.00
		x	=
		x	=
		x	=
		x	=
		x	=
	SUBTOTAL:		
	TOTAL:	6788.90 + MU	

FORM NO. 001 (REV. 8/99)

Hillcrest Representative

Customer's Representative

WHEN WORK IS DONE ON EQUIPMENT RENTAL BASIS LIST ALL EQUIPMENT USED AND NUMBER OF HOURS USED.

WHITE - Office Copy CANARY - Customer Copy PINK - Field Copy

Daily Time Sheet

FRIDAY

Date: 4/24/15 Job No: 2618 PEDESTRIAN - METROLINK STATION

Map Page: Cross Streets:

Cust. Rep: Foreman: 8580 Tremble, William Proj. Mgr: JERRY BLAIR

STREETS WORKED ON THIS DAY: PARK LOT METROLINK STATION

STATION/LOTS/LOCATION OF WORK:

JB

D

AL

Job Codes: Item/Act. No	Item Descr.	Bid Quantity	Daily Qty	Materials Used	U/M
A1 04 A	REMOVAL of CONC 11 Load 88 C.Y.			0.0	
A2 AEW				0.0	
A3 AEW				0.0	
A4 AEW				0.0	
A5 AEW				0.0	
A6 AEW				0.0	
A7 AEW				0.0	

C-Contract Work, X-Extra Work, T-T&M Work ==> 04A Total

Comments==> Material today is from Phone No ( ) - Person. LUNCH 12:00 to 12:30

IN 6:30	1835	Diaz, Juan Gomez	8	✓						OUT 3:15
11	8580	Tremble, William	8	✓						11
11	9360	White, Kenneth Skip Loader operator	8	✓						11 4:30
11	5486	Martinez, Heriberto	10	✓						15½
	Ramos Trucking		15½	✓						11 Load
	Dump Fee LB CRUSHING		11	Loads	AT	$125.00	EA			
	R464	Bobcat-Heriberto	8	✓						8
	R598 pick up		8	✓						8
	R238	Pup Roller								Ø
	R457	Skiploader 4WD	8	✓						

Hillcrest Contracting, Corona, Ca. Date: 4/24/15 Job No: 2618

Phone No. (909) 273-8500

FAX: (909) 273-8508

REMOVAL of CONC AT PARK LO STATION 11 Loads 88 C.Y.

NO SUB working Today

DAILY EXTRA WORK REPORT

Date Performed 4/27/15		CCO. No.1	Report No. 48233
Date of Report 5/6/15		Amount Auth.	Prevailing Wage
		Prev. Expen.	$
		Today	$
Project:	City of Covina, Pedestrian & Metrolink Station Imp.	To Date	$
Work Performed By:	HILLCREST CONTRACTING		
Description of Work	Removal of concrete at Parking Lot on T&M		

Equip. Code	Equipment	Hours	Hourly Rate	Total Amounts	Labor	#	Hours	Hourly Rate	Total Amount
	Foreman Pick-up	8.00	$ 30.00	$ 240.00	Foreman - Tremble		8.00	$ 87.17	$ 697.36
	Skiploader	4.00	$ 72.00	$ 288.00	Laborer - Diaz		8.00	$ 70.75	$ 566.00
	Bobcat	5.50	$ 80.00	$ 440.00					$ -
	10 Wheeler	5.50	$ 35.00	$ 192.50	Operator - White		8.00	$ 82.53	$ 660.24
				$ -	Operator - Martinez		5.50	$ 82.53	$ 453.92
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
				$ -					$ -
	EQUIPMENT TOTAL		(B)	$ 1,160.50					$ -
	MATERIAL and/or WORK done by Specialists								

Description	No. Unit	Unit Cost					
					SUB-TOTAL	(A)	$ 2,377.52
				Burden (Overhead 33%)			
			$ -	Subsistence	No.		$ -
Dump Fees (2 LDS at $125.00/Load)	2.00	$ 125.00	$ 250.00	Travel Expense	No.		$ -
			$ -	Equipment Moves		200.00	$ -
				TOTAL COST OF LABOR		A	$ 2,377.52
						B	$ 1,160.50
Total Cost of Materials and Work		(C)	250.00	---------->		C	$ 250.00
				+20 % On Labor Cost		(A)	$ 475.50
				+15% on Equipment- Material & Work Cost		(B)	$ 174.08
				+10% on Material		(C)	$ 25.00
				TOTAL THIS REPORT			**$ 4,462.60**

Contractor's Representative
ACCEPTED FOR PROGRESS PAYMENT

Project Engineer

HILLCREST CONTRACTING

48233

General Engineering Contractors

P.O. Box 1898 • Corona, CA 91718-1898

AUTHORIZATION FOR EXTRA WORK OR CHANGE IN PLANS

CUSTOMER'S NO. _____ JOB. NO. _____ ITEM NO. 2618 DATE 4/27/15

BILL TO: CITY OF COVINA

LOCATION OF WORK: METROLINK PARKING LOT

DESCRIPTION OF WORK: REMOVAL OF CONCRETE AT PARKING LOT (18 CY)

ESTIMATOR: JASON JONES

TYPE OF LABOR, EQUIPMENT OR MATERIALS USED	FOR OFFICE USE ONLY HOURS/ QUANTITY	RATE	
FOREMAN	8	x 87.17	= 697.36
PICK-UP	8	x 30.00	= 240.00
LABORER	8	x 70.75	= 566.00
OPERATORS	13.5	x 82.53	= 1114.16
BOBCAT	5.5	x 80.00	= 440.00
SKIPLOADER	4	x 72.00	= 288.00
10 WHEELER	5.5	x 35.00	= 192.50
DUMP FEE L.B. CRUSHING	2 LOADS	x 125.00	= 250.00
		x	=
		x	=
		x	=
		x	=
		x	=
	SUBTOTAL:		
	TOTAL:	3788.02 + MU	

FORM NO. 001 (REV. 8/99)

Hillcrest Representative

Customer's Representative

WHEN WORK IS DONE ON EQUIPMENT RENTAL BASIS LIST ALL EQUIPMENT USED AND NUMBER OF HOURS USED.

WHITE - Office Copy CANARY - Customer Copy PINK - Field Copy

Daily Time Sheet

Date: 4/27/2015 **Job No:** 2618 **PEDESTRIAN - METROLINK STATION** MONDAY JB JS AL

MapPage: **Cross Streets:**

Cust. Rep: **Foreman:** 8580 Tremble, William **Proj. Mgr:** JERRY BLAIR

STREETS WORKED ON THIS DAY: METROLINK PARK LOT

STATION/LOTS/LOCATION OF WORK:

Job Codes:

	Item/Act. No	Item Descr.	Bid Quantity	Daily Qty.	Materials Used	U / M
A1	04 A	REMOVAL of CONC 2 Loads		16 CY	0.0	
AEW:						
A2		Shop TIME BOB CAT down			0.0	
AEW:						
A3					0.0	
AEW:						
A4					0.0	
AEW:						
A5					0.0	
AEW:						
A6					0.0	
AEW:						
A7					0.0	
AEW:						

C-Contract Work, X-Extra Work, T-T&M Work

								Total
	OUT	3½						

Comments: Material today is from: Phone No: ( ) - Person: LUNCH 12:00 to 12:30 — 2 Loads

IN	Dump Fee LBCRUSHER	2 Loads								2 Loads OUT
0530	1838 Diaz, Juan Gomez	✓	8							8 3:0
"	8580 Tremble, William	✓	8							8 "
"	9380 White, Kenneth	✓	8							8 "
"	6486 Martinez, Heriberto	✓	5½							5½ "
"	7721 Sanchez, Richard			2						2 "
	RAMOS TRUCKING			2						2
	R598 pickup	✓	8							
	R464 Bobcat-Heriberto	✓	5½							5
	R460 Bobcat S300		Ø							Ø
	R236 Pup Roller		Ø							Ø
	R457 Skiploader 4WD	✓	4							4
	R333 10 wheeler	✓	5½							5

Hillcrest Contracting, Corona, Ca.
Phone No. (909) 273-9600
FAX: (909) 273-9608

Date: 4/27/201 **Job No:** 2618

REMOVAL of CONC 2 Loads AT $125.00 EA. CONC CREW POURING BANDS 393 L.F. AND SUB SLAB 392 S.F. Today ON FRONT ST, SUB'S VE TREE REMOVING TREE AT PARKING LOT METROLINK Today.

CITY OF COVINA
AGENDA ITEM COMMENTARY

MEETING DATE **June 2, 2015** **ITEM NO. CB 1**

STAFF SOURCE **Andrea Miller, City Manager**

ITEM TITLE **Budget Options Report**

STAFF RECOMMENDATION
Review City Manager recommendations and provide direction.

BACKGROUND

The Fiscal Year 2015/16 Preliminary Budget presented to the City Council at the Special Study Session Meeting on May 21, 2015, included projected expenditures of $33,915,121 million, which reflects a decrease of $1,522,903, or 4.3%, when compared to the FY 2014/15 revised expenditures of $35,438,024. Projected revenues in FY 2015/16 are $33,293,855. This reflects an increase of $1,315,647, or 4.11%, over the prior fiscal year budgeted revenues of $31,978,208. A deficit of $801,326, which includes required Transfers Out of $180,060, is projected in FY 2015/16. This deficit would have been higher, at a projected $2.4 million; however, transfers from other funds are recommended to offset operating costs in this fiscal year to enable the City to continue to provide essential municipal services while implementing measures that will enhance the City's long-term financial sustainability and viability.

Increases in the City's expenses have outpaced the growth in revenue over the last several years, requiring the City to draw down its reserves and utilize one-time monies and special, or restricted, funds which may be used for capital improvements to fund operational costs. This practice is unsustainable as budget shortfalls are projected for the foreseeable future. Further, because the deficits the City is facing in the preliminary budget and in the two preceding fiscal years are structural in nature and reserves are, by definition, one-time monies, the City would simply be shifting the budget issue out one more year if measures are not implemented now to accomplish the following:

1. Reduce operating costs while continuing to provide quality programs and services;
2. Increase revenues that support essential government services;
3. Develop funding sources for capital investment in the City's streets, public buildings and facilities, parks, and open space areas; and
4. Restore undesignated and designated reserves to address future liabilities and any unforeseen circumstances as this serves as the City's safety net. Without these funds, the

City will not be equipped to address unforeseen expenditure needs or offset future drops in revenue.

FINDINGS AND ANALYSIS

Eliminating the projected deficit in FY 2015/16 and positioning the City to avoid deficits in future years will require difficult policy decisions. Further, given the funding gap in the upcoming fiscal year and the anticipated growth in the costs of operations in future years, revenue increases alone should not be the only option considered to eliminate the deficit and put the City on stable financial footing.

This Report identifies, for the City Council's consideration and direction, various options to balance expenditures against revenues, address immediate and long-term fiscal obligations, and promote long-term financial sustainability. The list of options is not an exhaustive list, and staff will continue to explore opportunities to reduce costs and increase revenues while maintaining a high level of service. The options, which are described below, are organized into the following categories:

1. New or Expanded Revenue Measures
2. Compensation and Benefit Strategies
3. Service Delivery Model Changes
4. Financial Philosophy and Policy Changes

Each option includes suggestions for consideration and recommendations. Given the rate at which the City's operating costs are growing in comparison to the growth in annual revenues, it is anticipated that the most effective strategy moving forward will involve a combination of reducing personnel costs, changing service delivery models including out sourcing some city services, more efficient revenue collection procedures, and potential voter approved tax measures.

NEW OR EXPANDED REVENUE MEASURES

User Fees and Cost Allocation

A diverse set of fees are charged by the City to recover all or a portion of the City's costs for providing a service or access to public property, or for mitigating the impacts of the fee payer's activities on the community. Intended for cost recovery, a fee may not exceed the actual cost of providing the service or facility plus overhead for which the fee is charged. Examples of City fees include building permits, recreation classes, false alarms and development impact fees.

Opportunities exist to increase fees for some services to match the costs of the service being provided, consistent with the City's general practice of striving for full cost recovery where possible. There are some fees that the Council has generally subsidized. The Council has not adopted a formal policy related to cost recovery expectations. A policy will be developed and presented to the City Council for adoption. This policy will guide City staff recommendations related to user fees and will address the following:

- User fees should be used to recover the cost of services that benefit specific segments of the community.
- User fees should be reviewed and adjusted at least annually to avoid sharp changes.
- User fees and charges should not exceed the City's full cost of providing the service.
- User fees should be established at a level which reflects the full cost of providing those services.
- The City Council may determine for any service whether a subsidy from the General Fund is in the public interest.
- User fees shall only be used when the cost of providing the service can be readily calculated and administered.
- User fees should be adopted by Council resolution and included in the Annual Fee Schedule.

Willdan Group Inc. (Willdan) commenced a Cost Allocation Plan in 2013. The Plan was completed in 2014, reviewed and approved by the City's auditors, and implemented in the FY 2014/15 Budget, forming the basis of the allocation of costs to the various City departments. Willdan also commenced a Comprehensive Fee Study in 2014. Prior to the 2014 study, fees for programs and services were updated periodically by the individual departments and presented to the City Council for approval. The data and recommendations made by Willdan as part of the Comprehensive Study have been reviewed by City staff, and the Study will be presented to the City Council with a recommendation to adopt the proposed fee structure. Thereafter, the Cost Allocation Plan and Comprehensive Fee Schedule will be updated annually and presented to the Council for possible adjustments.

Recommendations:

1. Direct staff to develop a cost recovery policy to be presented for Council's review and approval. The policy will establish guidelines related to the recovery of fees and provide guidance to staff in the development of participant fees for new recreation programs.
2. Each year, a fee analysis and cost allocation plan will be completed, and a proposed fee schedule based on the results of the analysis will be presented to the City Council for consideration and adoption.
3. Staff will implement effective administrative practices to ensure fees are collected.

Subsidies or Contributions by the City

The City currently subsidizes a variety of programs and services. Examples of subsidies include parking and bus passes, fee exemptions, support for local events, and use of public property. The value of the subsidies is estimated at $80,000 to $150,000.

Recommendation: Direct the City Manager and staff to identify the various subsidies and in-kind support provided by the City; present the information to the City's Finance Committee; and request the Finance Committee to review and analyze the information and recommendations to the City Council.

Potential Tax Increases

Below is a preliminary discussion related to potential tax increases and estimated potential revenues associated with the following tax increases. All would require voter approval. If there is interest in pursuing one or more of these measures, a considerable amount of additional analysis and discussion is required.

Real Property Transfer Tax

In California, some cities have imposed a tax on the transfer of property located within the city. The tax, known as the documentary transfer tax or real property transfer tax, is largely based on the federal documentary stamp tax, which was repealed in 1976. In California, counties and cities have been authorized to impose a tax on deeds of transfer of realty. The amount of the tax is based on the consideration or value of the realty transferred. The current County rate is one dollar and ten cents ($1.10) for each one thousand dollars ($1000) of value. Of that amount, the City receives $0.55 and the County receives the remaining $0.55. The transfer tax must be paid by the person who signs or issues any document subject to the tax or for whose use or benefit the document is made, signed or issued. Real Estate Transfer Taxes, authorized as documentary transfer taxes by the California Revenue and Taxation Code on the sale or transfer of real property, are currently levied by all counties and many cities.

Real Property Transfer Taxes may be applied only to residential sales or to other types of real estate transactions including commercial and industrial sales. Revenue raised from the Real Property Transfer Tax is added to the City's General Fund.

The Real Property Transfer Taxes imposed by cities in Los Angeles County range from $2.2 (Pomona, Redondo Beach) to $4.50 (Culver City, Los Angeles). If the City were to implement a rate of $4.50 per $1000 of value, which is at the high end, to provide a base level of funding necessary to deliver essential services to the community. The proposed rate would generate roughly $609,530 million annually.

Utility User Tax

Like Covina, many cities charge a tax on utilities, ranging up to 9.5% (Huntington Park). Covina currently charges 6%. Each 1% increase on utilities currently taxed (telephone, cable, electric, water and gas) would yield approximately $867,000 annually.

Utility user taxes (UUT) are paid by Covina residents and businesses and are collected by the utility providers who serve them. The utility then remits the tax payments to the City. The estimated annual revenue in FY 2014/15 from utility user taxes (electric, gas, water, cable, land line phone, and cell phone) is $5.2 million. The City has made annual revenue projections considering possible tax increases at 1% and 2%. Further, sanitary sewer service, sanitation, and refuse collection are currently not part of the utility user tax. The City may want to consider modernizing and expanding the utility user tax to cover utilities not currently included.

A utility user tax increase can only be voted on during a general election (a simple majority is needed), unless the City Council declares a fiscal emergency and puts the potential tax increase to a vote during a special election. It should be noted that costs for special elections are higher. For Covina, a special election would cost approximately $90,000.

Sales Tax

Sales tax is one of the City's largest sources of General Fund revenue. Covina receives 1% of the local sales and use tax levied on the sale or use of tangible personal property, which is collected at the time of the transaction and remitted to the State Board of Equalization for administration. In addition to the local measure, some cities have imposed a transaction and use tax within the city to fund general municipal services. The current total tax on retail sales in Covina is presently 9%. Of this, 0.75% flows to the General Fund budget of Covina, amounting to a projected $7.09 million in FY 2015/16. It is estimated that a ½ cent increase in the sales tax rate would provide approximately $2.5 million in General Fund revenue.

Transient Occupancy Tax (TOT)

The Transient Occupancy Tax (TOT) is a tax charged on hotel stays. Covina presently has a TOT rate of 10%, which is the County average. In the Los Angeles County area, some cities charge as much as 14% (City of Los Angeles, Santa Monica, Beverly Hills). For our City, TOT generates approximately $335,000 per year in revenues, meaning that each 1% of the tax generates about $33,500.

Increasing the rate by 1% would retain Covina's rate at the lower end of the County range and would generate $33,500 in annual revenues. There might be some negative impact of the higher tax rate on occupancy rates at the local hotel. For these reasons, we are not recommending an increase of the existing TOT.

City-wide Landscape/Lighting District

The City currently has a Street Lighting Assessment District as well as a Street Trees and Landscape Assessment District that cover only a small portion of the City's properties. These districts are intended to defray the costs of maintenance, electricity, water and landscaping services for the City's medians, urban forest and street lights. Because of the territory of the District, the costs to provide these services exceed the assessments resulting in an annual General Fund contribution of approximately $150,000 per year. The creation of a City-wide District would increase the assessments, which would be used to fund these costs.

Public Safety Parcel Tax

A special tax that shall be used only for the purpose of providing public safety, e.g. law enforcement and fire services, may be adopted. There are currently 12,414 parcels within the City. If each parcel were assessed $200, this would result in approximately $2.45 million per year in revenues that would be required to be used to pay for public safety costs. In FY 2015/16, the estimated cost for fire suppression services is $8.7 million and $14.4 million is allocated for the Police Department.

911 Communications Fee

While often called a "fee," this potential revenue source is actually a tax requiring voter approval. If approved by the voters, the tax would be charged on most personal and business telephone lines and cell phones in the City. This charge would be in addition to the existing .75% state-wide surcharge on all landline and cellular telephones. Some exemptions typically

exist, mainly relating to customers on lifeline service and service to non-profit organizations and government offices.

Communities that have implemented this fee estimate that approximately 90% of the phone accounts in their community are taxed. The justification for charging a fee to telephone subscribers is that only people who have telephones can call 911 for emergency services. Further, the telephone service subscribers derive significant benefits from ongoing operation of the modernized integrated system in the form of more efficient dispatch of services to a 911 emergency request.

> **Recommendation:** Request the City's Finance Committee review, evaluate, and make recommendations to the City Council regarding new or increased taxes; and if the Committee recommends pursuing certain tax measures, develop an action plan and schedule to seek voter approval of new or revised measures.

Property Assessment Audits

Property Tax revenues have been impacted in recent years by the downturn in the housing market and in housing new starts. Property tax revenues on secured property experienced slight increases over the last three years and there have been recent minor increases in assessed values. It would be helpful to conduct an audit of assessed values assigned to each property within the City. In prior years, there have been across the board reductions in assessments without review and analysis, and conducting an audit of property assessments to ensure accuracy may generate additional revenue and avoid costly appeals.

> **Recommendation:** Direct staff to engage a private firm to perform an audit of the property tax assessments to ensure data is current and accurate and the property taxes owed are received.

Franchise Agreements and Long-Term Contracts

Like most cities, Covina has long-term contracts and franchise agreements with a variety of vendors. To ensure the services are being provided in the most cost effective manner possible, and at competitive rates, staff should review in-house operations as well as external contacts with terms exceeding two-years to identify opportunities to renegotiate the terms or to outsource the services to outside contractors. Additionally, consideration should be given to restructuring potential revenue generating contracts, such as refuse services.

> **Recommendation:** Direct staff to review and evaluate all franchise agreements and contracts for cost savings and/or revenue generating opportunities. Present information to the City Council for direction as opportunities are identified.

Utility Franchise Fee

A potential revenue source to be considered, although it requires state legislative action, is to revise the utility franchise fee paid to municipalities in areas served by Southern California Edison (SCE). Inequity exists in what older communities such as Covina receive from franchise agreements when compared with newer cities which have negotiated with SCE.

The Franchise Act of 1937 sets one-half of one percent as a minimum franchise fee charged. Because of the methods used by the California Public Utilities Commission to set and account for investor-owned utility rates, SCE blends the cost of all franchise fees across its entire rate base, regardless of the return to each respective city. As a result, every SCE customer is subject to a 0.84% franchise fee charge, regardless of whether the customer resides in a city that is being paid a 1% fee or a 0.5% fee. Covina receives only 0.5%, while some other, newer communities receive 1% franchise fee because of rates they negotiated with SCE. The result is that some cities are subsidizing others. Analysis should be conducted of the potential new revenue to the City if a legislative change was enacted. The potential of legislative change should be monitored and coordinated with other cities throughout the State advocating for change.

> **Recommendation:** Analyze the amount of additional revenue that would be received by the City if the utility franchise fee was increased to 1%. Advocate for a change in legislation to correct the inequity of payments to cities of utility franchise fees.

Paramedic Cost Recovery and Subscription Program

A paramedic cost recovery fee and a paramedic subscription program administered by the City may be used to offset the costs related to paramedic/fire services. Residents would have the opportunity to pay for the service if utilized or participate in the paramedic subscription program. This program would function as a form of insurance in that subscribers are not responsible for paying out-of-pocket costs for emergency medical services (EMS) above what is covered through insurance, Medicare or Medi-Cal.

California cities that have paramedic subscription programs charge from $24 to $60 annually per household. The most common rate is $48 per year. Some cities have varying rates for local businesses, convalescent homes, and low-income residents (e.g., residents who qualify for low-income discounts on their city water bill). Revenues vary by city and are evaluated in terms of market penetration; the ratio of subscribing households to the total number of households. Market penetration rates are generally related to community demographics, population density, whether transport services are provided, and the amount of other EMS fees. Typically, communities with a high percent of residents over 60 years of age and those in rural areas or do not live in close proximity to emergency medical facilities have higher market penetration (i.e., number of members). Given the number of residential parcels in the City and demographics, it is anticipated there is an opportunity for this program to reduce the overall costs to the General Fund for fire/paramedic services.

The City currently provides a premium paramedic program that is not provided by the Fire Department in other cities. In an effort to maintain the highest quality service, the City may wish to consider implementing a cost recovery fee and a subscription program as well as a marketing plan in an effort to inform residents and engage subscribers. This revenue could then be used to fund paramedic costs. The City's total number of housing units is 16,411, and the amount of revenue generated would depend on the penetration rate, or number of subscribers.

> **Recommendations:**
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> 1. Direct staff to present information on the proposed paramedic cost recovery fee and paramedic subscription program to recover costs associated with

Fire/Paramedic Service to the Finance Committee and request the Committee review and analyze the information and make a recommendation to the City Council.

2. If the paramedic cost recovery fee and paramedic subscription program are recommended, develop an ongoing marketing program for paramedic subscriptions with a goal of market penetration of at least 50% of households.

False Alarm Fees

Responding to false alarms is unproductive use of Police Department resources. While we are unaware of the actual minutes spent per alarm response, we believe possibly 90-95% of total alarm calls are false alarms. Based on the fees currently charged and the costs of officers responding, it appears that the City may be losing thousands of dollars each year that is not paid for by fees. All City costs (police response and administrative overhead) incurred by false alarms should be paid for by the alarm owner.

> **Recommendation:** Review and analyze the false alarm program, determine whether an adjustment to the fee and/or change in the practices related to the collection on first offenses is accomplishing the City's goals, and make recommendations.

Asset Management

Cities own many buildings and physical facilities such as parks, office buildings, corporate yards, streets, sidewalks, and parking lots and structures. Asset management is the process of monitoring the inventory and leasing or licensing the use of these investments, that can and should be considered as a cost reduction strategy.

Covina is developing an updated asset inventory. Over the long-term, an asset management program should integrate with maintenance and replacement schedules for the development of long-range capital improvement program funding needs.

The identification of surplus, under-performing properties that can be sold will result in one-time revenues and a reduction in ongoing maintenance costs. Market rate rents should be calculated and updated periodically for all City and Successor Agency properties that are rented or leased. Market rental rates as well as the level of subsidy should also be identified for properties rented or provided to community and non-profit organizations and for economic development purposes. The subsidies should then be supported by the appropriate program and funding source. This will identify the true costs of such programs, allow them to be properly charged, and provide relief to the General Fund.

Every parcel owned by the City or Successor Agency represents property taxes that the City does not receive. Currently, the City and Successor Agency own 64 parcels with total book value of $13,404,546. Many of these properties are relatively small and undevelopable. As a result, the likely sales estimate is significantly lower that the book value. Assuming the City were able to sell the properties for $4 million and given the City's 18% share of the property assessment, the sale of these parcels would generate roughly $720,000 in revenue.

The City and Successor Agency may also wish to explore selling or leasing some of the parcels at below-market rates in order to incentivize developers and other business interests to spur additional economic development and development-related revenues.

> **Recommendation:** Develop a comprehensive asset management program, identify market rental rates and subsidies, and sell unneeded and under-performing properties. Conduct an analysis of all property assets as part of the asset management program.

COMPENSATION AND BENEFIT STRATEGIES

Personnel costs account for about 60% of the General Fund operating expenses and include the costs related to salaries, the City's share of the retirement benefit, medical and unemployment insurance, workers compensation and employer taxes.

Pension costs are a combination of an "employer" and "employee" share. PERS sets the employer share for each agency depending on actuarial assumptions. For Covina, the employer share is 26.119% of compensation for public safety employees and 21.953% for non-safety employees. Those levels will grow to 27.189% for safety and 23.8% for non-safety in FY 2016/17. The employee share is set by PERS at 9% for public safety and 8% for non-safety and 12.25% for safety new hires. The Public Employee Pension Reform Act of 1913 (PEPRA) provides that beginning in 2018 an employer may require employees through negotiations to pay 50 percent of the total annual normal cost, which is based on the employee and employer contributions, up to an 8 percent contribution rate for miscellaneous employees, and an 11 percent or 12 percent contribution rate for safety employees.

Through recent negotiations, Covina employees agreed to pay the full employee share (9% for safety and 8% for non-safety), which significantly reduced the costs to the City. In addition, a two-tier retirement benefit program of 3% at 55 for safety employees has been implemented. PEPRA also implemented reduced benefit formulas and increased retirement ages for both new non-sworn and sworn personnel. Those benefits are: 2.7% at 57 years of age for sworn and 2% at 62 for non-sworn. Savings are based on workforce turnover and thus initial cost reductions are minimal. However, the savings to Covina over the long-term are significant. Despite these measures, the long-term, unfunded PERS liability owed by the City is estimated at $31,555,193, and this, when coupled with the City's other long-term obligations, requires new strategies to reduce costs in the City's largest expenditure category – personnel.

Vacant Positions and Overtime Reduction

Given the financial position, it is recommended all vacant positions remain unfilled except where the position is determined by the City Manager to be critical for the effective operation of the organization or to address health or safety issues. Efforts should also be made to reduce overtime and implement effective planning to reduce the unanticipated overtime expenses except for the overtime costs reimbursed by other agencies.

> **Recommendations:**
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> 1. Freeze all vacant positions except as approved by the City Manager.
> 2. Reduce overtime except for reimbursed overtime costs.

Early Retirement Incentives

Various public agencies have implemented a variety of strategies to manage the size of their workforce. One strategy, an early retirement incentive plan (ERIP), increases retirements above natural attrition by enhancing employee retirement benefits. This strategy allows employers to decrease payroll costs, reorganize staff, and trim down higher-paid middle management. The organization achieves fiscal savings only by keeping the positions vacant or replacing retiring employees, who are typically at the top of the salary schedule, with entry-level employees. While California has several retirement incentives, the cost-effectiveness of these programs must be examined within the context of an aging workforce.

The program often used is referred to as the "Golden Handshake." This program was made available under the California Public Employees Retirement Law (Gov. Code 20903) and is also known as the CalPERS Two Years Additional Service Credit benefit. This option allows an agency to provide two additional years of service credit to members who meet the minimum eligibility for retirement (at least age 50 and at least 5 years of service credit), are employed in the designated classification, department or organizational unit, and who retire during a designated window period because of imminent demotions, mandatory transfers, or layoffs. And while it can provide some short-term savings, it adds to a city's future retirement costs and limits flexibility when it comes to filling vacated positions since the CalPERS program requires that they remain permanently unfilled. This program also does not necessarily provide an incentive to those who are not at or above retirement age.

Other, less costly, less restrictive options are available and may be created to address the specific needs of the organization and its employees. Agencies, such as the Public Agency Retirement System (PARS), assist public agencies in designing designs and implementing retirement programs in conjunction with existing PERS retirement programs. More recently, there are some limitations on the programs due the Pension Reform Laws; however, opportunities remain to create incentive programs. The PARS early retirement program goes far beyond the limitations of the PERS option and is far more flexible. The PARS program can be structured to provide years of service credit or other benefits such as medical coverage and the terms of the payment of the benefit can be defined and eligibility structured to meet City and employee needs.

These types of programs also allow the City to determine the number of positions by classification and department, thereby minimizing economic risk. Also, once the Council determines a need for a separation incentive program, the plan administrator can implement the program and can offer early retirement incentives as necessary as broadly or as narrowly as necessary. PARS offers the flexibility of providing structured payments to the employee including lump sum payments, monthly payments for life, or a monthly payment for 5, 10, or 15 years. The PARS early retirement option could be offered as a supplement to PERS and can be structured to complement PERS and social security eligibility.

The cost for the PARS retirement option program is calculated based upon the number of early retirements offered plus an administrative fee of 6% based upon cost of the retirements. It is considered a fee-for-service plan. Rather than paying for the cost within the first two years, costs are paid as expended or may be pre-funded.

Recommendation: Direct staff to identify possible incentives to promote early retirement and present options to the City Council for consideration.

Salary Step Adjustments

Traditional public agency salary schedules with an average of five or six steps in the range were developed before the onset of widespread collective bargaining and were intended to provide an opportunity to reward employees annually for their performance and for the growth of their experience and productivity as they become more effective on the job. The increases are often known as merit increases, and many are implemented automatically. Consequently, it only takes three and a half to four years for the employee to get to the top step.

During this period the employee is typically awarded a step increase, and if available, cost of living adjustments negotiated by their bargaining group. Because of this practice, new employees have sometimes received raises of between eight and nine percent annually in the first few years of their employment with the City. Most employees at the City are presently at the top of their salary range.

A 10 to 15 step range for management and non-management employees would reduce the City's costs and could spread the opportunity for performance increases over six to nine years rather than the current three and a half to four years. Such a change in the salary schedule would need to be negotiated with each of the City's bargaining units and would be considered by both sides as part of the total compensation package during negotiations.

Recommendation: As part of the FY 2016/17 labor negotiations and successor Memoranda of Understanding, consider instructing staff to implement a 10 to 15 step range to spread out merit (performance) increases over six to nine years rather than the current three and a half to four years and present options to the City Council for consideration.

SERVICE DELIVERY MODEL CHANGES

With the increasing demand for responsive government services exacerbated by the recession, government agencies are rethinking how to provide the best, most effective service at the lowest cost. Each community has its own unique approach to alternative service delivery; however, the one commonality is the need to identify a way to reduce the cost of delivering a broad spectrum of public services while meeting the expanding service demands in the most cost effective manner possible.

Outsourcing, Consolidation, and Shared Services are alternative service delivery models being used successfully in cities and communities throughout California. These require a shift of the municipal work to another entity. This shift can be to an outside entity, referred to as outsourcing, or it may mean the city will significantly affect the design of the organizational structure through the consolidation of services or shared services with another agency.

A recent study reported in the The Municipal Year Book 2014 shows that more communities are participating in shared services cooperation than ever before. This is reflected in an increase in the use of shared services from 17% in 2002 to almost 24% in 2012. As a result of the cooperation, these communities are saving money, achieving economies of scale, and strengthening collaborative intergovernmental relations. The study also noted that the list of services provided in this manner continues to grow. The data concludes that communities are looking to find greater economic efficiencies through the use of shared services.

Proponents of alternative service delivery models report greater flexibility in the provision of services, predictability in terms of annual and long-term costs, increased control and resource efficiency, and often greater levels of expertise and service.

> **Recommendation:** Direct the City Manager to evaluate the City's programs and services, and where she deems appropriate, to explore alternative service delivery models for the provision of City services and obtain proposals from other public and private agencies.

FINANCIAL PHILOSOPHY AND POLICY CHANGES

To ensure the budget reduction actions are meaningful and will make an ongoing impact to the financial health of the City, the following should be integrated as underlying goals:

- The City will proactively seek to protect and expand its tax base by encouraging a healthy, underlying local economy. Covina should continue to encourage shopping, dining, and visiting Covina's stores, restaurants, and hotel. Covina should continue to explore ways to capitalize on its resources such as its regional location with convenient access to Los Angeles, Orange, San Bernardino and Riverside Counties; access to major transportation corridors including freeways, rail and the ports of Los Angeles and Long Beach; commercial and industrially zoned property; and retail opportunities.

- The City will establish and maintain appropriate cash reserves.

- City revenue and expenditure performance will be reviewed monthly and appropriate budget adjustments will be made in advance of the end of a budget year if revenue performance is not meeting projections. Proposed budget amendments will be evaluated in the context of the City's financial condition.

- The City will consider competitive contracting of services and equipment when appropriate and where clear, cost-effective alternatives exist.

- The City will establish appropriate cost-recovery targets for its fee structure and will annually adjust its fee structure to ensure that the fees continue to meet cost recovery targets.

- The City will work in partnership with its employees to ensure fair and competitive compensation and that costs related to pension and other benefits are appropriately allocated between employer and employees.

- The City will work to strengthen revenue collection practices and procedures.

An important strategy for avoiding structural budget deficits is to adopt a budget philosophy that is relatively easy to understand and can serve as a meaningful framework for maintaining financial discipline. The following reflects best practice policies in public financial management:

Structurally Balanced Budget. The annual budgets for all City funds should be structurally balanced throughout the budget process. Ongoing revenue should be equal to or exceed operating expenditures in both the proposed and adopted budgets. If a structural imbalance occurs, a plan should be developed and implemented to bring the budget back into structural balance.

Multi-Year Financial Forecasting. To ensure that current budget decisions consider future financial implications, a ten-year financial forecast should be utilized by the staff and Council. The annual General Fund proposed budget balancing plan should be presented and discussed in context of the ten-year forecast. Any revisions to the proposed budget should include an analysis of the impact on the forecast out years. If a revision creates a negative impact on the forecast, a funding plan should be developed and approved to offset the impact. The ten-year forecast should be updated at least twice per year to reflect changes in revenues and unexpected changes in expenditures. The forecast should be presented to the City Council for discussion and to provide information to the public.

Use of One-Time Resources. One-time resources (e.g., revenue spikes, budget savings, sale of property, and similar nonrecurring revenue) should not be used for current or new ongoing operating expenses. Examples of appropriate uses of one-time resources include rebuilding reserves, retiring debt early, making capital expenditures (without significant operating and maintenance costs), and other nonrecurring expenditures.

Established Reserves. Covina has multiple funds, based on different revenue sources and requirements. Because there are risks (both known and unknown), it is important that reserve levels in all funds be maintained as a hedge against such risks. Without proper reserves, there can be major disruptions in services when unforeseen financial demands emerge, requiring immediate attention. The City should maintain an adequate reserve level and/or ending fund balance for each fund, not just the General Fund, as determined annually and as appropriate for each. For the General Fund, different types of reserves should be maintained, including an economic uncertainty reserve to provide a cushion for unexpectedly low revenues in any given year, and a contingency reserve for other emergency needs that arise. City Council and City Manager authorization should be required for the expenditure of established reserves, along with repayment requirements.

Debt Issuance. A municipality should not issue long-term (over one year) debt to support ongoing operating costs (other than debt service) unless such debt issuance achieves net operating cost savings and such savings are verified by appropriate independent analysis. All debt issuances shall identify the method of repayment (or have a dedicated revenue source) without an impact to operations.

Employee Compensation. Negotiations for employee compensation should continue to consider total compensation bargaining concepts and focus on all personnel services cost changes (e.g., step increases and the cost of benefit increases). Compensation costs should be included in the ten-year financial forecast to ascertain affordability to the municipality, within context of expected revenues.

Fees and Charges. Fee increases should be utilized, where possible, to assure that program operating costs are fully covered by fee revenue. Opportunities should be explored to establish new fees for services where appropriate.

Capital Improvement Projects. Capital improvement projects with future annual operating and maintenance costs exceeding $25,000 should not proceed without City Council certification until funding is identified in the applicable year of operation.

Grants. City staff should seek, apply for and effectively administer federal, state and other grants that address the City's priorities and policy objectives and provide benefits. Before any grant is pursued, staff should provide a detailed pro-forma that addresses the immediate and long-term costs and benefits to the City. One-time operating grant revenues should not be used to begin or support the costs of ongoing programs.

Performance Measures. All requests for departmental funding should include performance measurement data so that funding requests can be reviewed and approved in light of service level outcomes to the community and organization.

Recommendations:

1. Direct staff to review, revise and present to the City Council for adoption updated financial policies and a budget philosophy that reflect best practices and provide a meaningful and easy to understand framework for maintaining financial discipline.
2. Report on the state of the City's finances to the City Council and Finance Committee for public discussion at least quarterly.
3. Present an updated Ten-Year Financial Plan to the City Council and Finance Committee in December and June of each year.

Respectfully submitted,

Andrea M Miller

Andrea Miller
City Manager

CITY OF COVINA
AGENDA ITEM COMMENTARY

MEETING DATE June 2, 2015 **ITEM NO. NB 1**

STAFF SOURCE Debbie Pacheco, Acting Director of Finance
Nuala Gasser, Sr. Housing & CDBG Economic Development Manager

ITEM TITLE Resolutions relating to the annexation of territory to Community Facilities District No. 2007-1 (269-275 W Center Street)

STAFF RECOMMENDATION

a). Adopt City **Resolution No. 15-7353,** declaring its intention to authorize the annexation of territory to Community Facilities District No. 2007-1 (Public Services); and

b). Adopt City **Resolution No. 15-7354**, adopting boundary map showing territory proposed to be annexed in the future to Community Facilities District No. 2007-1 (Public Services).

FISCAL IMPACT

There are eight residential units in the proposed annexation area, of which seven are subject to the special tax. The "Special Tax" authorized by the proposed annexation to Community Facilities District 2007-1 (the "CFD") will generate up to $3,249.19 annually based on the 2014-2015 tax rate of $464.17 per multi-family unit, and will be deposited to Account No. 2740-4800-45800. The Special Tax shall be used to pay for the following services: police, fire protection and suppression, paramedic services, and park maintenance. The Special Tax will increase annually by the greater of two percent (2.00%), or the percentage change in the Consumer Price Index.

BACKGROUND

The purpose of the subject resolutions is to 1) notice the intent of the City to annex property to the CFD, 2) identify the boundaries of the proposed annexation, 3) identify the types of services to be funded by the CFD, and 4) notice that a public hearing will be held on July 7, 2015, where the City Council will consider the proposed annexation. The subject resolutions are hereby presented to the City Council, pursuant to the Conditions of Approval for an 8-unit condominium/apartment development at 269-275 W. Center Street, Covina, CA, Assessor's Parcel Numbers are 8444-002-011 and 8444-002-012.

On June 5, 2007, the City Council held a public hearing and formed CFD 2007-1. Pursuant to the Conditions of Approval for an 8-unit apartment development at 269-275 W. Center Street, the builder agreed to annex to the CFD, or to pay an in-lieu fee based on the financial impact on Police, Fire, Emergency and Parks services. The builder has opted to annex into the CFD. Under the CFD, in Fiscal Year 2014-2015, any newly constructed residential units are charged $464.17 per year for the following services: police, fire protection and suppression, paramedic services, and park maintenance. This Special Tax appears on the annual Property Tax bill for each parcel. The Special Tax authorized by the CFD shall be levied on all parcels for which

building permits were issued on or before May 1 of the preceding fiscal year. Because one existing dwelling unit on the property will be demolished and replaced, there is a net increase of seven residential units subject to the special tax.

The purpose of the CFD is to finance the aforementioned public safety and park services that are in addition to those currently provided for the territory within the District. In Fiscal Year 2014-2015, the estimated amount for these services, for each additional multi-family residential unit, is $464.17. This program has been conceived with the intention that all future residential development, which results in a net increase of residential units, will annex to the CFD or pay an equivalent mitigation fee. Residential units constructed prior to formation of the CFD are not subject to the Special Tax.

RELEVANCE TO THE STRATEGIC PLAN

This action will assist the City to reach the goal of enhancing financial stability, as the special tax assessed on all future residential development will provide some of the needed funding to provide public safety and park services.

EXHIBITS

A. Resolution No. 15-7353
B. Resolution No. 15-7354

Respectfully submitted,

Debbie Pacheco
Acting Director of Finance

EXHIBIT A

RESOLUTION NO. 15-7353

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF COVINA, CALIFORNIA, DECLARING ITS INTENTION TO AUTHORIZE THE ANNEXATION OF TERRITORY TO COMMUNITY FACILITIES DISTRICT NO. 2007-1 (PUBLIC SERVICES)

WHEREAS, the City Council of the City of Covina, California, (hereafter referred to as the "City Council"), at this time desires to authorize the annexation of territory to City of Covina Community Facilities District No. 2007-1 (Public Services) ("CFD No. 2007-1") pursuant to the terms and provisions of the "Mello-Roos Community Facilities Act of 1982", being Chapter 2.5, Part 1, Division 2, Title 5 of the Government Code of the State of California, as amended (the "Act"); and

WHEREAS, CFD No. 2007-1 was formed to finance new police services, fire protection and suppression services, paramedic services, and park maintenance and other public services in addition to those provided in or required for the territory within CFD No. 2007-1 and will not be replacing services already available; and

WHEREAS, certain territory is proposed to be annexed to CFD No. 2007-1 and such territory shall be known and designated as Community Facilities District No. 2007-1 (Public Services), Annexation No. 8 ("Annexation No. 8").

WHEREAS, this legislative body now desires to proceed to adopt its Resolution of Intention to annex Annexation No. 8 into CFD No. 2007-1, to describe the territory proposed to be annexed, Annexation No. 8, to specify the services to be financed from the proceeds of the levy of special taxes within Annexation No. 8, to set and specify the special taxes that would be levied within the territory to finance such services, and to set a time and place for a public hearing relating to the annexation of Annexation No. 8 into CFD No. 2007-1; and

WHEREAS, a map showing the boundaries of Annexation No. 8 proposed to be annexed has been submitted, and a copy of the map shall be kept on file with the transcript of these proceedings.

NOW THEREFORE, BE IT RESOLVED AND ORDERED by the City Council of the City of Covina, as follows:

SECTION 1 Recitals. The above recitals are all true and correct.

SECTION 2 Authorization. The proceedings for annexing Annexation No. 8 into CFD No. 2007-1 are authorized and initiated by this legislative body pursuant to the authorization of the Act.

SECTION 3 Intention to Annex. This legislative body hereby determines that the public convenience and necessity requires that Annexation No. 8 be added to CFD No. 2007-1 in order to pay the costs and expenses for the required and authorized new services generated from new

development within the City and this City Council declares its intention to annex Annexation No. 8 to CFD No. 2007-1.

SECTION 4 Boundaries. A general description of the boundaries of Annexation No. 8 proposed to be annexed is as follows:

> All that territory proposed to be annexed to CFD No. 2007-1, as such property is shown on a map designated as "Annexation Map No. 8 of Community Facilities District No. 2007-1 (Public Services), City of Covina, County of Los Angeles, State of California," attached hereto as Exhibit "A" and hereby incorporated by reference.

SECTION 5 Name of District. The name of the district is "City of Covina Community Facilities District No. 2007-1 (Public Services)" and the designation for the territory to be annexed shall be "City of Covina Community Facilities District No. 2007-1 (Public Services), Annexation No. 8."

SECTION 6 Services Authorized to be Financed by CFD No. 2007-1, Annexation No. 8. The services that are authorized to be financed by CFD No. 2007-1 are certain services which are in addition to those provided in or required for the territory within CFD No. 2007-1 and Annexation No. 8 and will not be replacing services already available. A general description of the services to be financed by CFD No. 2007-1 and Annexation No. 8 is as follows:

> PUBLIC SERVICES
>
> New police services, fire protection and suppression services, paramedic services, and park maintenance, including but not limited to (i) the costs of contracting services, (ii) related facilities, equipment, vehicles, ambulances, fire apparatus and supplies, (iii) the salaries and benefits of City staff that directly provide police services, fire protection and suppression services, paramedic services, and park maintenance respectively, and (iv) City overhead costs associated with providing such services within CFD No. 2007-1 and Annexation No. 8. The Special Tax provides only partial funding for Public Services.

The same types of services which are authorized to be financed by CFD No. 2007-1 are the types of services to be provided in Annexation No. 8. If, and to the extent possible, such services shall be provided in common within CFD No. 2007-1 and Annexation No. 8.

SECTION 7 Special Taxes. It is the further intention of this City Council body that, except where funds are otherwise available, a special tax sufficient to pay for such services to be provided in CFD No. 2007-1 and Annexation No. 8, and related incidental expenses authorized by the Act, secured by recordation of a continuing lien against all non-exempt real property in Annexation No. 8, will be levied annually within the boundaries of such Annexation No. 8. For further particulars as to the rate and method of apportionment of the proposed special tax, reference is made to the attached and incorporated Exhibit "B" (the "First Amended Rate and Method of Apportionment"), which sets forth in sufficient detail the method of apportionment to allow each landowner or resident within proposed Annexation No. 8 to clearly estimate the maximum amount that such person will have to pay.

The special tax proposed to be levied within Annexation No. 8 for services to be supplied within Annexation No. 8 shall be equal to the special tax levied to pay for the same services in CFD No. 2007-1, to the extent that the actual cost of providing the services in Annexation No. 8 is equivalent to the cost of providing those services in CFD No. 2007-1. Notwithstanding the foregoing, the special tax may not be levied at a rate that is higher than the maximum special tax authorized to be levied pursuant to the First Amended Rate and Method of Apportionment.

The special taxes herein authorized, to the extent possible, shall be collected in the same manner as ad valorem property taxes and shall be subject to the same penalties, procedure, sale and lien priority in any case of delinquency as applicable for ad valorem taxes. Any special taxes that may not be collected on the County tax roll shall be collected through a direct billing procedure by the City Treasurer.

The maximum special tax rate in CFD No. 2007-1 shall not be increased as a result of the annexation of Annexation No. 8 to CFD No. 2007-1.

SECTION 8 Public Hearing. Notice is given that on the 7th day of July, 2015, at the hour of 7:30 p.m., in the regular meeting place of the City Council being the Covina City Hall located at 125 E. College Street Covina, CA 91723, a public hearing will be held where this City Council will consider the authorization for the annexation of Annexation No. 8 to CFD No. 2007-1, the proposed method and apportionment of the special tax to be levied with Annexation No. 8 and all other matters as set forth in this Resolution of Intention.

At such public hearing, the testimony of all interested persons for or against the annexation of Annexation No. 8 or the levying of special taxes within Annexation No. 8 will be heard.

At such public hearing, protests against the proposed annexation of Annexation No. 8, the levy of special taxes within Annexation No. 8 or any other proposals contained in this resolution may be made orally by any interested person. Any protests pertaining to the regularity or sufficiency of the proceedings shall be in writing and shall clearly set forth the irregularities or defects to which objection is made. All written protests shall be filed with the City Clerk prior to the time fixed for the public hearing. Written protests may be withdrawn at any time before the conclusion of the public hearing.

SECTION 9 Majority Protest. If (a) 50% or more of the registered voters, or six (6) registered voters, whichever is more, residing within CFD No. 2007-1, (b) 50% or more of the registered voters, or six (6) registered voters, whichever is more, residing within Annexation No. 8, (c) owners of one-half or more of the area of land in the territory included in CFD 2007-1, or (d) owners of one-half or more of the area of land in the territory included in Annexation No. 8, file written protests against the proposed annexation of Annexation No. 8 to CFD No. 2007-1 and such protests are not withdrawn so as to reduce the protests to less than a majority, no further proceedings shall be undertaken for a period of one year from the date of the decision by the City Council on the annexation of Annexation No. 8 to CFD 2007-1.

SECTION 10 Notice. Notice of the time and place of the public hearing shall be given by the City Clerk by publication in a legally designated newspaper of general circulation, in the territory

of Annexation No. 8 and CFD 2007-1 pursuant to Section 6061 of the Government Code. Said publication shall be completed at least seven (7) days prior to the date set for the public hearing and shall contain the information prescribed in Section 53322 of the Act.

SECTION 11 The City Clerk shall certify to the adoption of this resolution.

PASSED, APPROVED AND ADOPTED this 2nd day of June, 2015.

_____
John C. King, Mayor

ATTEST:

_____
Evelyn Leach
Interim Chief Deputy City Clerk, City of Covina

APPROVED AS TO FORM;

_____
City Attorney

CERTIFICATION

I, Evelyn Leach, Interim Chief Deputy City Clerk of the City of Covina, hereby CERTIFY that Resolution No. 15-7353 was adopted by the Covina City Council at a regular meeting of the City Council held this 2nd day of June, 2015, and was approved and passed by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

_____
Evelyn Leach
Interim Chief Deputy City Clerk

EXHIBIT A TO RESOLUTION

ANNEXATION MAP

SHEET 1 OF 1

ANNEXATION MAP NO. 8
COMMUNITY FACILITIES DISTRICT NO. 2007-1
(PUBLIC SERVICES)

CITY OF COVINA
COUNTY OF LOS ANGELES
STATE OF CALIFORNIA

FILED IN THE OFFICE OF THE CITY CLERK THIS _____ DAY OF _____, 2015.

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING PROPOSED BOUNDARIES OF ANNEXATION NO. 8 TO COMMUNITY FACILITIES DISTRICT NO. 2007-1 (PUBLIC SERVICES), CITY OF COVINA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, WAS APPROVED BY THE CITY COUNCIL OF THE CITY OF COVINA AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 2015, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK
CITY OF COVINA

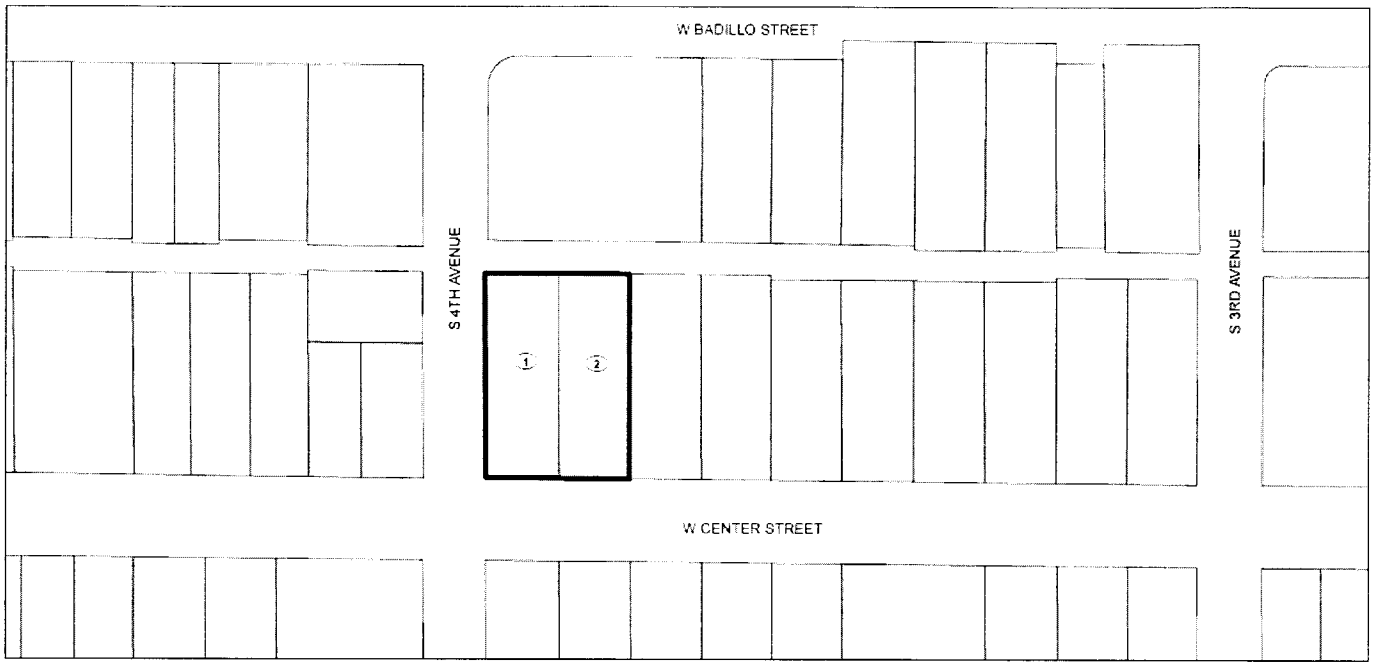
FILED THIS _____ DAY OF _____, 2015, AT THE HOUR OF _____ O'CLOCK ___.M. IN THE BOOK _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE(S) _____ AND AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA.

_____
BY DEPUTY
COUNTY RECORDER
COUNTY OF LOS ANGELES
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF COMMUNITY FACILITIES DISTRICT NO. 2007-1 (PUBLIC SERVICES) OF THE CITY OF COVINA RECORDED WITH THE LOS ANGELES COUNTY RECORDER'S OFFICE ON MAY 18, 2007, AS DOCUMENT NO. 20071218337 IN THE BOOK OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS.

THE LINES AND DIMENSIONS OF EACH LOT OR PARCEL SHOWN ON THIS DIAGRAM SHALL BE THOSE LINES AND DIMENSIONS AS SHOWN ON THE LOS ANGELES COUNTY ASSESSOR'S MAPS FOR THOSE PARCELS LISTED.

THE LOS ANGELES COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



WILLDAN Financial Services

LEGEND

District Boundary

1 Map Reference Number

MAP REFERENCE NUMBER	ASSESSOR'S PARCEL NUMBER
1	8444-002-011
2	8444-002-012

EXHIBIT B TO RESOLUTION

FIRST AMENDED RATE AND METHOD OF APPORTIONMENT

FIRST AMENDED
RATE AND METHOD OF APPORTIONMENT

CITY OF COVINA

COMMUNITY FACILITIES DISTRICT NO. 2007-1 (PUBLIC SERVICES)

A special tax as hereinafter defined shall be levied on and collected for Community Facilities District No. 2007-1 (Public Services) of the City of Covina ("CFD No. 2007-1") each Fiscal Year, commencing in Fiscal Year 2007-2008, in an amount determined by the City Council of the City of Covina through the application of the appropriate Special Tax for "Developed Property," as described below. All of the real property in CFD No. 2007-1, unless exempted by law or by the provisions hereof, shall be taxed for the purposes, to the extent, and in the manner herein provided.

A. DEFINITIONS

The terms hereinafter set forth have the following meanings:

"Act" means the Mello-Roos Communities Facilities Act of 1982 as amended, being Chapter 2.5, Division 2 of Title 5 of the Government Code of the State of California.

"Administrative Expenses" means any actual ordinary and necessary expense of the City of Covina, or designee thereof or both, to carry out the administration of CFD No. 2007-1 related to the determination of the amount of the levy of the Special Tax, the collection of the Special Tax including the expenses of collecting delinquencies, the payment of a proportional share of salaries and benefits of any City employee whose duties are directly related to the administration of CFD No. 2007-1, fees and expenses for counsel, Special Tax consultant and other consultants hired by the City in relation to CFD No. 2007-1, costs associated with responding to public inquiries regarding CFD No. 2007-1, and costs otherwise incurred in order to carry out the authorized purposes of CFD No. 2007-1.

"Affordable Housing" means any Unit within CFD No. 2007-1 that is subject to a written and recordable covenant, deed restriction, resale restriction, regulatory agreement or similar agreement with either the City of Covina or the Redevelopment Agency of the City of Covina, which restricts the amount of rent for that Unit to "affordable rent" (as that term is defined in California Health and Safety Code Section 50053) for a period of not less than fifty-five (55) years, or which restricts the purchase price for that Unit to "affordable housing cost" (as that term is defined in California Health and Safety Code Section 50052.5) for a period of not less than forty-five (45) years. A Unit shall no longer be considered Affordable Housing following the expiration or termination of the applicable covenant, restriction or agreement.

"Annual Escalation Factor" means for the Special Tax, the greater of (i) two percent (2.00%), or (ii) the percentage change in the Consumer Price Index for the Calendar Year ending in December of the prior Fiscal Year.

"Assessor's Parcel" means a lot or parcel of land designated on an Assessor's Parcel Map with an assigned Assessor's Parcel number within the boundaries of CFD No. 2007-1.

"Assessor's Parcel Map" means an official map of the Assessor of the County designating parcels by Assessor's Parcel number.

"Base Year" means Fiscal Year ending June 30, 2008.

"Boundary Map" means the map of the boundaries for CFD No. 2007-1, as approved by the City Council, and recorded with the County in maps of assessments and community facilities districts.

"Building Permit" means a permit for new construction for a residential dwelling Unit. For purposes of this definition, "Building Permit" shall not include permits for construction or installation of retaining walls, utility improvements, or other such improvements not intended for human habitation.

"Calendar Year" means the period commencing January 1 of any year and ending the following December 31.

"CFD Administrator" means an official of the City, or designee thereof, responsible for determining the Special Tax Requirements and providing for the levy and collection of the Special Tax.

"CFD No. 2007-1" means Community Facilities District No. 2007-1 (Public Services) established by the City under the Act.

"City" means the City of Covina.

"City Council" means the City Council of the City, acting as the Legislative Body of CFD No. 2007-1, or its designee.

"Consumer Price Index" means the index published by the U.S. Department of Labor, Bureau of Labor Statistics for all urban consumers in the Los Angeles-Riverside-Orange County area.

"County" means the County of Los Angeles.

"Developed Property" means all Assessor's Parcels within CFD No. 2007-1 for which Building Permits were issued on or before May 1 preceding the Fiscal Year for which the Special Tax is being levied, provided that a Final Map was created on or before January 1 of the prior Fiscal Year and that each such Assessor's Parcel is associated with a Lot, as determined reasonably by the City and/or CFD administrator.

"Exempt Property" means all Assessor's Parcels within CFD No. 2007-1 designated as being exempt from the Special Tax as determined in Section F.

"Final Map" means a subdivision of property evidenced by the recordation of a final map, parcel map, or lot line adjustment, pursuant to the Subdivision Map Act (California Government Code Section 66410 et seq.) or the recordation of a condominium plan pursuant to California Civil Code 1352 that creates individual lots for which Building Permits may be issued without further subdivision.

"Fiscal Year" means the period commencing on July 1 of any year and ending the following June 30.

"Lot" means an individual legal lot created by a Final Map for which a Building Permit could or has been issued.

"Maximum Special Tax" means the Maximum Special Tax determined in accordance with Section C, which can be levied by CFD No. 2007-1 in any Fiscal Year on Taxable Property within CFD No. 2007-1.

"Mixed-Use Property" means all Assessor's Parcels of Developed Property for which Building Permit(s) have been issued for purposes of constructing Non-Residential Property and Residential Property. Residential Units on Mixed-Use Property shall be classified as Multi-Family Residential.

"Multi-Family Residential" means all Assessor's Parcels of Developed Property for which a Building Permit has been issued for purposes of constructing a residential structure consisting of two or more residential Units that share common walls, including, but not limited to, duplexes, triplexes, town homes, condominiums, apartment Units, and residential Units on Assessor's Parcels that are considered Mixed-Use Property.

"Non-Residential Property" means all Assessor's Parcels for which a Building Permit was issued for any type of non-residential use.

"Public Property" means any property within the boundaries of CFD No. 2007-1 that is owned by or irrecoverably dedicated to the City, the federal government, the State of California, the County, CFD No. 2007-1, or other public agency. For purposes of this definition, property owned by the Redevelopment Agency of the City of Covina is **not** considered Public Property and any property owned by the Redevelopment Agency will be subject to the levy of a Special Tax in accordance with Sections C and D herein.

"Public Services" means new police services, fire protection and suppression services, paramedic services, and park maintenance, including but not limited to (i) the costs of contracting services, (ii) related facilities, equipment, vehicles, ambulances, fire apparatus and supplies, (iii) the salaries and benefits of City and Fire District staff that directly provide police services, fire protection and suppression services, paramedic services, and park maintenance, and (iv) City and Fire District overhead costs associated with providing such services within CFD No. 2007-1. The Special Tax provides only partial funding for police, fire protection services, paramedic services, and park maintenance.

"Special Tax" means any special tax authorized to be levied by CFD No. 2007-1 pursuant to the Act to fund the Special Tax Requirement.

"Single-Family Residential" means all Assessor's Parcels of Developed Property for which a Building Permit has been issued for purposes of constructing one single-family residential dwelling Unit.

"Taxable Property" means all Assessor's Parcels within CFD No. 2007-1 that are not exempt from the levy of the Special Tax.

"Tax Class" means any of the classes listed in Table 1 below.

"Undeveloped Property" means all Assessor's Parcels within CFD No. 2007-1 for which Building Permits have not been issued and that is not classified as Approved Property or Public Property.

"Unit" means any separate residential dwelling unit in which a person or persons may live, which comprises an independent facility capable of conveyance separate from adjacent residential dwelling units and is not considered to be for commercial or industrial use.

B. CLASSIFICATION OF ASSESSOR'S PARCELS

Each Fiscal Year, beginning with Fiscal Year 2007-2008, each Assessor's Parcel within CFD No. 2007-1 shall be classified as Developed Property or Exempt Property. In addition, each Fiscal Year, beginning with Fiscal Year 2007-2008, each Assessor's Parcel of Developed Property shall be further classified as Single-Family Residential, Multi-Family Residential, or Mixed-Use Property.

C. MAXIMUM ANNUAL SPECIAL TAX

The Maximum Special Tax for each Assessor's Parcel classified as Single-Family Residential, Multi-Family Residential, and Mixed-Use Property in Fiscal Year 2007-2008 shall be equal to the Maximum Special Tax set forth in Table 1.

TABLE 1
MAXIMUM ANNUAL SPECIAL TAX RATES
Fiscal Year 2007-2008

Tax Class	Description	Maximum Special Tax
1	Single-Family Residential	$527 per Unit
2	Multi-Family Residential	$395 per Unit
3	Mixed-Use Property	$395 per Unit

For each subsequent Fiscal Year following the Base Year, the Maximum Special Tax for each Assessor's Parcel classified as Developed Property shall be adjusted by the Annual Escalation Factor.

Multiple Tax Classes

In some instances an Assessor's Parcel may contain more than one Tax Class. The Maximum Special Tax levied on such Assessor's Parcel shall be the sum of the Maximum Special Tax that can be imposed on all Tax Classes located on that Assessor's Parcel.

D. METHOD OF APPORTIONMENT OF SPECIAL TAX

Commencing with Fiscal Year 2007-2008, and for each subsequent Fiscal Year, the Special Tax shall be levied on each Assessor's Parcel of Developed Property at the applicable Maximum Special Tax as set forth in Section C.

E. TERMINATION OF SPECIAL TAX

The Special Tax shall be levied in perpetuity to fund Public Services provided to CFD No. 2007-1.

F. EXEMPTIONS

The City shall classify as Exempt Property: (i) Public Property, (ii) Non-Residential Property, (iii) Undeveloped Property, (iv) Affordable Housing, or (v) Assessor's Parcels with public or utility easements making impractical their utilization for other purposes than those set forth in the easement.

G. APPEALS

Any property owner claiming that the amount or application of the Special Tax is not correct may file a written notice of appeal with the City Council not later than twelve months after having paid the first installment of the Special Tax that is disputed. A representative(s) of CFD No. 2007-1 shall promptly review the appeal, and if necessary, meet with the property owner, consider written and oral evidence regarding the amount of the Special Tax, and rule on the appeal. If the representative's decision requires that the Special Tax for an Assessor's Parcel be modified or changed in favor of the property owner, a cash refund shall not be made, but an adjustment shall be made to the Special Tax on that Assessor's Parcel in the subsequent Fiscal Year(s).

H. MANNER OF COLLECTION

The annual Special Taxes shall be collected in the same manner and at the same time as ordinary ad valorem property taxes, provided, however, that CFD No. 2007-1 may collect the Special Taxes at a different time or in a different manner if necessary to meet its financial obligations.

EXHIBIT B

RESOLUTION NO. 15-7354

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF COVINA, CALIFORNIA, ADOPTING BOUNDARY MAP SHOWING TERRITORY PROPOSED TO BE ANNEXED IN THE FUTURE TO COMMUNITY FACILITIES DISTRICT NO. 2007-1 (PUBLIC SERVICES)

WHEREAS, the City Council of the City of Covina, California, (hereafter referred to as the "City Council"), formed a Community Facilities District, designated as Community Facilities District No. 2007-1 (Public Services) ("CFD No. 2007-1"), pursuant to the terms and provisions of the "Mello-Roos Community Facilities Act of 1982", being Chapter 2.5, Part 1, Division 2, Title 5 of the Government Code of the State of California, as amended (the "Act"); and

WHEREAS, the City Council desires to initiate proceedings to annex certain territory to CFD No. 2007-1; and

WHEREAS, there has been submitted a map showing the territory proposed to be annexed to CFD No. 2007-1, said area to be designated as Community Facilities District No. 2007-1 (Public Services), Annexation No. 8 (hereafter referred to as "Annexation No. 8").

NOW THEREFORE, BE IT RESOLVED AND ORDERED by the City Council of the City of Covina, as follows:

SECTION 1 Recitals. The above recitals are all true and correct.

SECTION 2 Annexation Map. The map showing Annexation No. 8 to be subject to the levy of a special tax upon the annexation of such territory to CFD No. 2007-1 is hereby approved and adopted. Such map is designated by the name of "Annexation Map No. 8 of Community Facilities District No. 2007-1 (Public Services), City of Covina, County of Los Angeles, State of California."

SECTION 3 Certificate. A certificate shall be endorsed on the original and on at least one (1) copy of the map of Annexation No. 8, evidencing the date and adoption of this Resolution, and within fifteen days after the adoption of the Resolution of Intention fixing the time and place of the Public Hearing to annex Annexation No. 8 to CFD No. 2007-1, a copy of said map shall be filed with the correct and proper endorsements thereon with the Los Angeles County Recorder, all in the manner and form provided for Section 3111 of the Streets and Highways Code of the State California.

SECTION 4 The City Clerk shall certify to the adoption of this resolution.

PASSED, APPROVED AND ADOPTED this 2nd day of June, 2015.

_____
John C. King, Mayor

ATTEST:

_____
Evelyn Leach
Interim Chief Deputy City Clerk, City of Covina

APPROVED AS TO FORM;

_____
City Attorney

CERTIFICATION

I, Evelyn Leach, Interim Chief Deputy City Clerk of the City of Covina, hereby CERTIFY that Resolution No. 15-7354 was adopted by the Covina City Council at a regular meeting of the City Council held this 2nd day of June, 2015, and was approved and passed by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

_____
Evelyn Leach
Interim Chief Deputy City Clerk

CITY OF COVINA
AGENDA ITEM COMMENTARY

MEETING DATE: June 2, 2015 **ITEM NO. NB 2**

STAFF SOURCE: Debbie Pacheco, Acting Finance Director
Steven Smith, Senior Management Analyst

ITEM TITLE: Review of User Fees

STAFF RECOMMENDATION
Review attached User Fees.

FISCAL IMPACT
The exact dollar impact across funds is currently unknown. However, any changes in fees will move the City closer toward full cost recovery for services rendered.

BACKGROUND
The California Government Code allows cities to recover all or a portion of the cost of providing services through the application of fees. The fee charged may not exceed the actual cost to provide the service or use of a facility.

In the past, the fee study has been updated and adopted every five (5) years.

In June 2014, the City contracted with Willdan Financial Services (Consultant) to update the City's cost allocation plan and user fees. The methodology employed to determine the City's cost of the services it provides included:

- The fully-allocated employee cost per hour, which consists of an employee's full salary and benefits, plus total overhead was calculated; and
- A "time survey" to determine the position(s) and time required to provide each service. Times were based on minutes spent for each service and reflect an average for each fee.
-

Each department was interviewed by the Consultant in July and August. Each department was then sent the fee worksheet which was completed with information regarding employees time and position in order to calculate the fee. Thereafter, the Finance department met with each department to review the information provided and recommend changes as necessary. Based on the data collected, the fees as presented on the attached charts accurately reflect the cost of the service provided.

Exhibit A details the type of fee, the full cost of providing the service related to that fee, the current fee, the recommend cost recovery level, the suggested fee, and the amount of increase or decrease. Some fees show a proposed decrease over the current charge being assessed. This reflects the current cost of providing that service.

While 100% cost recovery is generally recommended, there are instances when a lower recovery amount may be considered. For instance, certain recreation program fees may be set at a lower cost recovery amount to encourage participation to achieve other important policy considerations. In other instances, certain fees are capped by state or federal statutes.

The most significant addition to the City's fee schedule is the inclusion of a General Plan Recovery Fee. The revenue generated by this fee will be set aside to fund future General Plan updates and is assessed as a percentage of building permits. Building permits are the most commonly used method of recovering General Plan update costs as most activities include a building permit. The proposed General Plan Recovery Fee is based on an assumption of the General Plan update costing $750,000 with the cost being recovered over 12 years. Based on estimated annual building permit revenue of $555,000, this equates to 11.3% of building permit costs. Additionally, it is recommended that that if a General Plan Amendment and Zone Change are filed simultaneously, that a 50% "discount" be applied to those costs.

Each department has provided a recommended percentage of recovery. However, Council has the discretion to change the cost recovery level up to 100% of the cost of providing the service as desired. At a Council meeting in August, a policy which will set the framework for future recovery of fees will be presented for adoption.

This item will be presented at a public hearing at the June 16, 2015 Council meeting and following the hearing, staff will recommend adoption of a resolution establishing a Citywide Fee Schedule.

EXHIBITS
A. Fee Study

Respectfully submitted

Pacheco

Debbie Pacheco, Acting Finance Director
Finance

Finance Fees

Fee Description	Notes	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level (%)	Suggested Fee	Increase/(Decrease)
Returned check fee	As allowed by CA Civil Code 1713	NA	$25/$35	100%	$25/$35	$ -
Business License Processing Fee		$ 47.91	30.00	100%	$ 47.00	$ 17.00
Business License - Change		$ 8.53	5.00	100%	$ 8.00	$ 3.00
Business License - Close Out Sale Advertisement		$ 14.10	10.00	100%	$ 14.00	$ 4.00
Credit Card Use Fee	Per CA Government Code 6159	NA	Actual Cost	100%	Actual Cost	$ -

EXHIBIT A

Housing & CDBG

Group	Fee Description	Notes	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level (%)	Suggested Fee
CDBG Economic Development Loan/Grant Program	Processing fee for application	Refundable if provide a complete application within one month.	$ 400.34	New	100%	$ 400.00
Sale of affordable home	Processing fee to qualify new buyer		$ 533.78	New	100%	$ 533.00
Loan Subordination	Processing Fee		$ 667.23	New	100%	$ 667.00
	CFD Annexation Application		NA	New	NA	Consultant Costs
Annual Recertification Processing Fee for affordable rental properties (non-tax credit projects)	From 1 to 10 units		$ 133.45	New	100%	$ 133.00
Annual Recertification Processing Fee for affordable rental properties (non-tax credit projects)	Each additional 10 units		$ 133.45	New	100%	$ 133.00
Annual Recertification Processing Fee for affordable rental properties	Processing Fee for the Annual Report	Financed by tax credits or other government assistance in addition to Covina Housing Authority (CHA) funds. This fee category applies only when the non-CHA financing program requires a minimum 55 year affordability covenant	$ 400.34	New	100%	$ 400.00

City Clerk and Records Management Fees

Fee Description	Notes	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level (%)	Suggested Fee	Increase/(Decrease)
Copies of documents (Letter or Legal - black & white copies)		$ 0.25	0.10	100%	$ 0.25	$ 0.15
Copies of documents (Letter or Legal - color copies)		$ 0.40	0.10	100%	$ 0.40	$ 0.30
CD of documents		$ 5.00	1.00	100%	$ 5.00	$ 4.00
Council Meeting DVD or audio CD		$ 39.88	1.00	100%	$ 39.00	$ 38.00
Mailing documents		NA	No Charge	100%	Actual Cost	$ -
Fax transmissions or email documents		$ 0.25	0.10	100%	$ 0.25	$ 0.15
Certification by City Clerk		$ 15.56	No Charge	100%	$ 15.00	$ 10.00
Annual subscription of agenda packet		$ 93.37	No Charge	100%	$ 93.00	$ 70.00
Candidate Nomination Filing	per Election Code Section 10228	NA	No Charge	NA	$ 25.00	$ 25.00
Political Reform Act Late Filing	per day set by FPPC; $100 maximum	NA	No Charge	NA	$ 10.00	$ 10.00
Passport Application Fee	Set by Dept of State	NA	25.00	NA	$ 25.00	$ -
Passport Photo		$ 15.56	10.00	100%	$ 15.00	$ 5.00
Notary Service	per GC Section 8211	$ 15.56	10.00	100%	$ 15.00	$ 5.00
Reproduction of Campaign Statements	Set by the Fair Political Practices Commission	NA	0.10	NA	$ 0.10	$ -
Reproduction of Conflict of Interest Statements	Set by the Fair Political Practices Commission	NA	0.10	NA	$ 0.10	$ -
Reproduction of Campaign Statements which are five of more years old	Set by the Fair Political Practices Commission	NA	5.00	NA	$ 5.00	$ -

EXHIBIT A

Library Fees

Fee Description	Unit	Notes	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level (%)	Suggested Fee	Increase/(Decrease)
Library Service Fees - Interlibrary loans from system Libraries			$ 43.65	3.00	75%	$ 32.00	$ 29.00
Library Service Fees - Interlibrary loans from outside system			$ 19.80	3.00	75%	$ 14.00	$ 11.00
Library Service Fees - Library Card Replacement Fee			$ 1.10	1.00	100%	$ 1.00	$ -
Library Service Fees - Community Room Rental Fee - Non Profit	per hour		$ 137.13	15.00	75%	$ 102.00	$ 87.00
Library Service Fees - Community Room Rental Fee - Commercial	per hour		$ 137.13	25.00	75%	$ 102.00	$ 77.00
Library Service Fees - Computer Printout per page			$ 2.48	0.15	75%	$ 0.25	$ 0.10
Library Service Fees - Computer Printouts Color - per page			$ 2.60	0.50	75%	$ 0.75	$ 0.25
Library Service Fees -Photocopy per page			$ 2.46	0.15	75%	$ 0.25	$ 0.10
Library DVD Rental			$ 3.30	1.50	75%	$ 2.00	$ 0.50
Library Late Charges - Books per day		penalty	NA	0.15	NA	$ 0.25	$ 0.10
Library Late Charges - DVDs per day		penalty	NA	1.00	100%	$ 1.00	$ -
Library Late Charges - Collection Agency - per item		penalty	NA	20.00	100%	$ 20.00	$ -
Lost/Damage Book Fees - Proc fee		plus actual material replacement cost	$ 39.58	4.00	75%	$ 29.00	$ 25.00
Lost/Damage CD -Proc Fee		plus actual material replacement cost	$ 30.54	4.00	75%	$ 22.00	$ 18.00
Lost/Damage DVD-Proc Fee		plus actual material replacement cost	$ 30.54	4.00	75%	$ 22.00	$ 18.00
Lost/Damage Magazines - Proc fee		plus actual material replacement cost	$ 5.87	4.00	100%	$ 5.00	$ 1.00
Lost/Damage Cases for DVD - Proc fee		plus actual material replacement cost	$ 10.18	4.00	100%	$ 10.00	$ 6.00
Lost/Damage Cases for Music CD - Proc fee		plus actual material replacement cost	$ 10.18	4.00	100%	$ 10.00	$ 6.00
Lost/Damage Cases for Audiobook - Proc fee		plus actual material replacement cost	$ 10.18	4.00	100%	$ 10.00	$ 6.00
Lost/Damage Audio Book CD - Proce fee		plus actual material replacement cost	$ 10.18	4.00	100%	$ 10.00	$ 6.00
Bar Code Replacement			$ 1.40	1.00	75%	$ 1.05	$ 0.05
Library DVD - Saturday			$ 3.30	1.00	75%	$ 2.48	$ 1.48
iPad Overdue Fee	per hour	penalty	NA	20.00	NA	$ 20.00	$ -
Lost/Damage iPad- Cost Plus Processing Fee			$ 570.93	450.00	100%	$ 570.00	$ 120.00
Test Proctoring			$ 24.97	New	100%	$ 25.00	$ 25.00
Literacy Application Fee			$ 17.54	New	75%	$ 13.00	$ 5.00
Citizenship Classes- Registration Fee			$ 40.35	New	100%	$ 40.00	$ 35.00
Homework Help	Per child, per day		$ 4.41	1.00	75%	$ 3.00	$ 2.00
Homework Help Registration fee			$ 5.50	New	100%	$ 5.00	$ 5.00
Computer Tutoring Sessions		taught by volunteers; cost includes booklet	$ 8.01	5.00	75%	$ 6.00	$ 1.00
Hold Fee			$ 1.04	New	100%	$ 1.00	$ 1.00
Arts & Crafts Fair Vendor Fee			$ 15.84	15.00	100%	$ 15.00	$ -
Fax Service		for first 3 pages, plus $0.50 per additional page	$ 6.12	New	75%	$ 4.00	$ 3.00

EXHIBIT A

Parks & Recreation Fees

Fee Description	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level (%)	Suggested Fee	Increase/(Decrease)
Leaders-in-Training (per program period)	$ 788.69	40.00	5%	$ 40.00	$ -
Little Tots Soccer (8 weeks - 1 day per week)	$ 68.69	65.00	100%	$ 68.00	$ 3.00
Little Tots Basketball (8 weeks - 1 day per week)	$ 68.69	65.00	100%	$ 68.00	$ 3.00
Little Tots T-ball (8 weeks - 1 day per week)	$ 71.69	65.00	100%	$ 71.00	$ 6.00
Little Tots Flag Football (8 weeks - 1 day per week)	$ 90.69	65.00	75%	$ 68.00	$ 3.00
Pee Wee, Youth, Junior Soccer (8 weeks - 2 days per week)	$ 96.71	90.00	100%	$ 96.00	$ 6.00
Pee Wee, Youth, Junior Basketball (8 weeks - 2 days per week)	$ 95.71	90.00	100%	$ 95.00	$ 5.00
Pee Wee, Youth, Junor T-ball/Softball (8 weeks - 2 days per week)	$ 93.74	90.00	100%	$ 93.00	$ 3.00
Pee Wee, Youth, Junior Flag Football (8 weeks - 2 days per week)	$ 97.71	90.00	100%	$ 97.00	$ 7.00
Summer Day Camp (per week)	$ 259.29	120.00	75%	$ 194.00	$ 74.00
Sports Lighting (varies per field per hour - average)	$ 39.49	32.00	100%	$ 39.00	$ 7.00
Special Events (fees vary - average)	$ 31.48	10.00	100%	$ 31.00	$ 21.00
Senior Excursions (fees vary - average)	$ 35.96	29.00	100%	$ 35.00	$ 6.00
Senior Classes (fees vary - average)	$ 32.01	30.00	100%	$ 32.00	$ 2.00
Joslyn Center Membership (per calendar year)	$ 19.88	10.00	75%	$ 14.00	$ 4.00
Parade Entry - General	-	45.00	NA	$ 45.00	$ -
Parade Entry - Band	-	95.00	NA	$ 95.00	$ -
Parade Entry - Equestrian	-	55.00	NA	$ 55.00	$ -
Parade Entry - Commercial	-	110.00	NA	$ 110.00	$ -
Parade Entry Late Fee	-	20.00	NA	$ 20.00	$ -
Parade Vendor	-	100.00	NA	$ 100.00	$ -
Weekday Group Lessons (8 days, 50 minutes per day)	$ 94.34	50.00	75%	$ 70.00	$ 20.00
Saturday Group Lessons (5 days, 50 minutes per day)	$ 75.47	40.00	75%	$ 56.00	$ 16.00
Weekday Private Lessons (8 days, 50 minutes per day)	$ 254.72	135.00	75%	$ 191.00	$ 56.00
Weekday Semi-private Lessons (8 days, 50 minutes per day)	$ 160.38	85.00	75%	$ 120.00	$ 35.00
Saturday Private Lessons (5 days, 50 minutes per day)	$ 141.51	75.00	75%	$ 106.00	$ 31.00
Saturday Semi-private Lessons (5 days, 50 minutes per day)	$ 103.77	55.00	75%	$ 77.00	$ 22.00
Swim Team (10 weeks, 4 days per week, including meets)	$ 283.02	150.00	75%	$ 212.00	$ 62.00
Aqua Aerobics (20 class Flex Pass)	$ 132.08	70.00	75%	$ 99.00	$ 29.00
Aqua Aerobics (drop in - per person per day)	$ 7.55	4.00	75%	$ 5.00	$ 1.00
Lap Swim (per person per day)	$ 3.77	2.00	75%	$ 2.00	$ -
Recreation Swimming (per person per day)	$ 1.89	1.00	100%	$ 1.00	$ -
Lifeguard/Instructor Camp	$ 405.66	215.00	75%	$ 304.00	$ 89.00
Junior Lifeguard Course	$ 141.51	75.00	75%	$ 106.00	$ 31.00
Rec N' Roll Movie Experience	$ 794.97	725.00	100%	$ 794.00	$ 69.00
Banner Hanging	$ 350.98	282.00	100%	$ 350.00	$ 68.00

EXHIBIT A

Police Department Fees

Fee Description	Unit	Notes	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level (%)	Suggested Fee	Increase/(Decrease)
Daily			$ 9.04	3.00	100%	$ 9.00	$ 6.00
Quarterly			$ 26.76	17.00	100%	$ 26.00	$ 9.00
Application - Initial			$ 105.41	25.00	100%	$ 105.00	$ 80.00
Parking Citations		set per city code	NA	Varies	100%	Varies	$ -
Traffic Collision Report - Non-Injury	per page		$ 0.25	0.10	100%	$ 0.25	$ 0.15
Traffic Collision Report - Injury			$ 0.25	0.10	100%	$ 0.25	$ 0.15
All Other	per page		$ 0.25	0.10	100%	$ 0.25	$ 0.15
Fingerprinting		plus DOJ fees	$ 35.42	25.00	100%	$ 35.00	$ 10.00
Witness Fees - Civilian		per GC 68093; plus DOJ fees	NA	35.00	100%	$ 35.00	$ -
Witness Fees - Sworn		per GC 68097.2 (b)	NA	275.00	100%	$ 275.00	$ -
Media (CD, USB, etc)	per media		$ 6.48	1.00	100%	$ 6.00	$ 5.00
Paper Copy (Photos, etc.)			$ 0.25	0.10	100%	$ 0.25	$ 0.15
Mobile Audio Video (MAV)			$ 23.71	1.00	100%	$ 23.00	$ 22.00
Phone			$ 16.58	1.00	100%	$ 16.00	$ 15.00
911 Calls			$ 16.58	1.00	100%	$ 16.00	$ 15.00
Mobile Data Computer (MDC)			$ 16.58	0.10	100%	$ 16.00	$ 15.90
CCTV (jail, station, etc.)			$ 14.41	1.00	100%	$ 14.00	$ 13.00
Duplication by outside vendor (Photographs, Media, etc.)			NA	Actual Cost	100%	Actual Cost	$ -
Bingo Permits			$ 52.95	50.00	100%	$ 52.00	$ 2.00
Vehicle Release			$ 100.21	60.00	100%	$ 100.00	$ 40.00
Administrative Tow Fee			$ 203.28	129.00	100%	$ 203.00	$ 74.00
Vehicle Inspection -Transportation type vehicles			$ 55.76	50.00	100%	$ 55.00	$ 5.00
Citation Signoffs			$ 31.06	25.00	100%	$ 31.00	$ 6.00
Vehicle Repossessions Entry Receipt			$ 16.85	15.00	100%	$ 16.00	$ 1.00
Local Clearance Letter (visa, employment, personal, etc.)			$ 26.35	25.00	100%	$ 26.00	$ 1.00
Restitution/DUI Reimbursement (hourly or fraction thereof)		per GC 53150-53159; plus actual cost of personnel at scene up to $12,000 maximum	NA	260.00	100%	Actual Cost	$ -
Outside Employment		plus actual cost of personnel	$ 104.88	85.00	100%	$ 104.00	$ 19.00
Lost Citation	per page		$ 6.74	0.10	100%	$ 6.74	$ 6.64
Log Item - Copy	per page		$ 6.74	0.10	100%	$ 6.74	$ 6.64
Location/Premise History Search	per page		$ 6.74	0.10	100%	$ 6.74	$ 6.64
Billiard Permit (not active)			$ 1,867.56	1,960.00	100%	$ 1,867.00	$ (93.00)
Carnival			$ 2,277.18	2,445.00	100%	$ 2,277.00	$ (168.00)
Private Patrols Operators Invest.			$ 622.63	950.00	100%	$ 620.00	$ (330.00)
Solicitation			$ 731.98	680.00	100%	$ 730.00	$ 50.00
Fortunetelling			$ 1,902.23	2,000.00	100%	$ 1,900.00	$ (100.00)
ABC Permit & Transfer			$ 457.45	3,185.00	100%	$ 457.00	$ (2,728.00)
Massage Parlor Permit Invest.			$ 2,229.79	2,490.00	100%	$ 2,229.00	$ (261.00)
CCW Permit Initial application		Limited by GC 26190	N/A	100.00	100%	$ 100.00	$ -
CCW Permit Renewal		Limited by GC 26190	N/A	25.00	100%	$ 25.00	$ -
CCW Amended License fee		Limited by GC 26190	N/A	10.00	100%	$ 10.00	$ -
Second Hand Dealer License			$ 1,911.10	2,240.00	100%	$ 1,911.00	$ (329.00)
Second Hand Dealer Renewal			$ 729.37	1,020.00	100%	$ 729.00	$ (291.00)
Disturbance Violation Service Fee		plus actual cost of personnel	$ 21.08	Min. $50.00; Max $500.00	100%	$ 21.00	$ -
Application - Concealable Firearms - Retail Sales			$ 588.37	50.00	100%	$ 588.00	$ 538.00
Renewal - Concealable Firearms - Retail Sales			$ 43.02	35.00	100%	$ 43.00	$ 8.00

EXHIBIT A

Engineering Fees

Fee Description	Unit	Notes	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level (%)	Suggested Fee	Increase/(Decrease)
Utility excavation/cuts			$ 250.16	115.00	100%	$ 250.00	$ 135.00
Excavation - up to 100 SF			$ 143.66	1,075.00	100%	$ 143.00	$ (932.00)
Excavation - for each additional 100 SF			$ 102.30	1,550.00	100%	$ 102.00	$ (1,448.00)
Driveway, new or modification			$ 319.25	305.00	100%	$ 319.00	$ 14.00
Curb drain			$ 181.80	230.00	100%	$ 181.00	$ (49.00)
Curb and gutter, (plus $5/LF)			$ 181.80	305.00	100%	$ 181.00	$ (124.00)
Tree installation		contracted service	NA	115.00	100%	Actual Cost	$ -
Utility pole or street light (remove, relocate, add, etc.)			$ 204.59	155.00	100%	$ 204.00	$ 49.00
Other unlisted works			$ 181.80	225.00	100%	$ 181.00	$ (44.00)
Encroachment permit -scaffolding, per week or any portion thereof			$ 163.22	190.00	100%	$ 163.00	$ (27.00)
Encroachment permit - Entire street closure, per day			$ 227.38	190.00	100%	$ 227.00	$ 37.00
Encroachment permit - roll-off bins, per week or any portion thereof			$ 163.22	155.00	100%	$ 163.00	$ 8.00
Encroachment permit - equipment or materials, per week or any portion thereof (on sidewalk)			$ 102.30	100.00	100%	$ 102.00	$ 2.00
Encroachment permit- lane closure only (traffic control per week or less amd per location)			$ 265.52	100.00	100%	$ 265.00	$ 165.00
Encroachment permit - overhangs, sidewalk dining, freestanding signs - annual			$ 320.42	115.00	100%	$ 320.00	$ 205.00
Wide load permits	per trip	per California DOT	NA	15.00	100%	$ 16.00	$ 1.00
Lot line adjustment - residential (one line)		plus consultant costs	$ 561.94	1,025.00	100%	$ 561.00	$ (464.00)
Each additional line, 25% of original		plus consultant costs	$ 140.48	250.00	100%	$ 140.00	$ (110.00)
Lot line adjustment - commercial (one line)		plus consultant costs	$ 698.66	1,665.00	100%	$ 698.00	$ (967.00)
Each additional line, 25% of original		plus consultant costs	$ 174.66	415.00	100%	$ 174.00	$ (241.00)
Street vacation		plus consultant costs	$ 1,189.58	1,045.00	100%	$ 1,189.00	$ 144.00
Street address change			$ 104.79	395.00	100%	$ 104.00	$ (291.00)
Subaddress addition			$ 85.62	New	100%	$ 85.00	$ 85.00
Address Verification			$ 58.04	New	100%	$ 58.00	$ 58.00
Proposed development review		plus consultant costs	$ 1,011.89	1,580.00	100%	$ 1,011.00	$ (569.00)
Engineering copier - Brewster map (reproduction up to 36x24/sheet)			$ 11.75	80.00	100%	$ 11.00	$ (69.00)
Engineer copier -(larger 36x48)			$ 18.82	80.00	100%	$ 18.00	$ (62.00)
Enlarged city boundary map (poster size reproduction)			$ 50.95	Actual Cost	100%	$ 50.00	$ 50.00
Administrative conditional use permit - review			$ 34.18	620.00	100%	$ 34.00	$ (586.00)
Tentative/Final tract map - initial review - residential (3 reviews)		plus consultant costs	$ 643.99	2,370.00	100%	$ 643.00	$ (1,727.00)
Tentative/Final tract map - initial review - commercial (3 reviews)		plus consultant costs	$ 849.07	2,325.00	100%	$ 849.00	$ (1,476.00)
Tentative/Final tract map - additional reviews - per review		plus consultant costs	$ 287.82	120.00	100%	$ 287.00	$ 167.00
Tentative/Final tract map - extension of time		plus consultant costs	$ 151.10	310.00	100%	$ 151.00	$ (159.00)
Tentative/Final tract map - amendment (minor)		plus consultant costs	$ 151.10	310.00	100%	$ 151.00	$ (159.00)
Vacation - rights-of-way		plus consultant costs	$ 1,189.58	1,240.00	100%	$ 1,189.00	$ (51.00)
Storm drain plan review		plus consultant costs	$ 348.74	3,620.00	100%	$ 348.00	$ (3,272.00)
Plan check - street plans		plus consultant costs	$ 348.74	410.00	100%	$ 348.00	$ (62.00)
Site plan review		plus consultant costs	$ 212.02	385.00	100%	$ 212.00	$ (173.00)
Permit application/issuance fee			$ 48.56	15.00	100%	$ 48.00	$ 33.00
Research and Document Request			$ 50.35	New	100%	$ 50.00	$ 50.00
Additional inspection	per inspection		$ 60.93	New	100%	$ 60.00	$ 60.00

Planning Fees

Fee Description	Notes	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level (%)	Suggested Fee	Increase/(Decrease)
General Plan Amend.- Text or Map Change		$ 8,478.36	9,876.00	100%	$ 8,478.00	$ (1,398.00)
Planned Community Development Ordinance (Establishment of PCD and Major Modification to PCD)		$ 8,478.36	9,777.00	100%	$ 8,478.00	$ (1,299.00)
Zoning Ordinance Amend.- Text or Map Change		$ 8,478.36	7,721.00	100%	$ 8,478.00	$ 757.00
Variance major (non-single-family structure)		$ 1,397.04	3,761.00	100%	$ 1,397.00	$ (2,364.00)
Variance minor		$ 433.59	1,236.00	100%	$ 433.00	$ (803.00)
Conditional Use Permit		$ 3,142.20	2,867.00	100%	$ 3,142.00	$ 275.00
Administrative Conditional Use Permit		$ 318.73	1,883.00	100%	$ 318.00	$ (1,565.00)
Tentative Tract Map		$ 8,478.36	8,465.00	100%	$ 8,478.00	$ 13.00
Tentative Parcel Map		$ 5,012.79	4,220.00	100%	$ 5,012.00	$ 792.00
Counter Review w/o field insp.(minor site & bldg. Imp.)		$ 202.03	200.00	100%	$ 202.00	$ 2.00
SPR minor w/o DRC (Modifications to existing R-1)		$ 602.78	400.00	100%	$ 602.00	$ 202.00
SPR minor w/o DRC (Modifications to existing non R-1)		$ 850.09	600.00	100%	$ 850.00	$ 250.00
SPR w/DRC(new dwelling unit or 2nd unit; minor non R-1 Improvements)		$ 1,430.46	3,187.00	100%	$ 1,430.00	$ (1,757.00)
Site Plan Review major		$ 3,078.59	5,066.00	100%	$ 3,078.00	$ (1,988.00)
SPR: Appeal to Planning Commission or City Council / non-applicant		$ 2,143.14	1,730.00	100%	$ 2,143.00	$ 413.00
SPR: Planning Commission Time Extension Approval		$ 1,688.27	553.00	100%	$ 1,688.00	$ 1,135.00
SPR: Administrative Time Extension Approval		$ 307.98	234.00	100%	$ 307.00	$ 73.00
Tree Preservation Permit Regular		$ 305.05	822.00	100%	$ 305.00	$ (517.00)
Tree Preservation Permit minor		$ 2,382.92	150.00	100%	$ 2,382.00	$ 2,232.00
Addition to List of Permitted Uses (Planning Comm. / City Council Approval)		$ 2,323.88	2,097.00	100%	$ 2,323.00	$ 226.00
Appeals to Planning Commission or City Council (other than SPR)		$ 1,288.28	1,554.00	100%	$ 1,288.00	$ (266.00)
Environmental Review	Initial Study by City Staff	$ 2,291.92	1,696.00	100%	$ 2,291.00	$ 595.00
Environmental Expanded Initial Study - Staff review of Consultant Studies	Deposit, plus contract costs & 15% administrative cost	NA	1,696.00	NA	$ 3,000.00	$ 1,304.00
Environmental Review - Staff review & admin. of additional Studies by Consultants	Deposit, plus contract costs & 15% administrative cost	NA	1,696.00	NA	$ 3,000.00	$ 1,304.00
Envrionmental Impact Report - Staff review of Consultant Studies	Deposit, plus contract costs & 15% administrative cost	NA	1,696.00	NA	$ 3,000.00	$ 1,304.00
Business License Review (In-Home & Other) Counter review		$ 77.84	74.00	100%	$ 77.00	$ 3.00
Business License Review (In-Home & Other) Counter review w/field		$ 139.66	199.00	100%	$ 139.00	$ (60.00)
City Attorney Review of covenants, easements, agreements & other legal documents		$ 237.00	per hour	100%	Contract Rate	$ -
Verification & Research Fee		Variable	Actual Cost	100%	Actual Cost	$ -
Small Project Landscape & Construction Review Fee a. Artificial Turf installation		$ 212.35	217.00	100%	$ 212.00	$ (5.00)
Standard Project Landscape & Construction Review Fee		$ 336.00	515.00	100%	$ 335.00	$ (180.00)
Large Project Landscape & Construction Review Fee		$ 672.00	714.00	100%	$ 671.00	$ (43.00)
Large / Complex Project Landscape & Construction Review		$ 1,096.69	1,012.00	100%	$ 1,096.00	$ 84.00
City Planner Hourly Rate		$ 88.70	110.00	100%	$ 88.00	$ (22.00)
Community Development Director		$ 148.71	New	100%	$ 148.00	$ 148.00
Assistant Planner Hourly Rate		$ 61.83	74.00	100%	$ 61.00	$ (13.00)
Senior Administrative Technician Hourly Rate		$ 63.61	New	100%	$ 63.00	$ 63.00
Planning Technician Hourly Rate		$ 52.68	New	100%	$ 52.00	$ 52.00
Planning Aide Hourly Rate		$ 32.02	New	100%	$ 32.00	$ 32.00
Construction Plan Modification		$ 286.70	199.00	100%	$ 286.00	$ 87.00

Planning Fees

Fee Description	Notes	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level (%)	Suggested Fee	Increase/(Decrease)
Lot Line Adjustment		$ 214.57	685.00	100%	$ 214.00	$ (471.00)
Grading Plan Review - Single Family Detached		$ 61.83	199.00	100%	$ 61.00	$ (138.00)
Grading Plan Review - Single Family/Multi Family 10 Lots/Units or Less; Non Residential 1 Acre or Less		$ 123.65	New	100%	$ 123.00	$ 123.00
Grading Plan Review - Residential & Non Residential - 1.1 - 2.9 acres		$ 370.96	New	100%	$ 370.00	$ 370.00
Grading Plan Review - Residential & Non Residential - 3 acres +		$ 494.61	New	100%	$ 494.00	$ 494.00
Outdoor Dining and Display		$ 200.02	100.00	100%	$ 200.00	$ 100.00
Yard Sale Permit		$ 10.15	10.00	100%	$ 10.00	$ -
Annexation		$ 10,830.40	9,876.00	100%	$ 10,830.00	$ 954.00
Designation of a Heritage Tree (Private Applicant)		$ 3,127.62	2,273.00	100%	$ 3,127.00	$ 854.00
Designation of Historic Landmark(Private Applicant) a. Structure of Merit		$ 3,127.62	2,273.00	100%	$ 3,127.00	$ 854.00
Conditional Use Permit: ABC Investigation		$ 123.65	82.00	100%	$ 123.00	$ 41.00
Administrative Conditional Use Permit: Bingo, Las Vegas Nights, Carnivals, etc.		$ 261.85	122.00	100%	$ 261.00	$ 139.00
Admin.Conditional Use Permit : Special Event less than 30 days		$ 261.85	100.00	100%	$ 261.00	$ 161.00
Conditional Use Permit: 6-month Review of CUP by Planning Comm.		$ 286.70	546.00	100%	$ 286.00	$ (260.00)
Shopping Cart Containment/Retrieval Plan Review		$ 168.00	150.00	100%	$ 167.00	$ 17.00
Reinspection Fee		$ 123.65	New	100%	$ 123.00	$ 123.00
Construction Plan Review - Single Family Detached		$ 123.65	New	100%	$ 123.00	$ 123.00
Construction Plan Review - Single Family/Multi Family 10 Lots/Units or Less; Non Residential 1 Acre or Less		$ 247.30	New	100%	$ 247.00	$ 247.00
Construction Plan Review - Residential & Non Residential - 1.1 - 2.9 acres		$ 494.61	New	100%	$ 494.00	$ 494.00
Construction Plan Review - Residential & Non Residential - 3 acres +		$ 741.91	New	100%	$ 741.00	$ 741.00
Parking Agreement		$ 1,333.43	New	100%	$ 1,333.00	$ 1,333.00
Minor Modification to PCD (administrative)		$ 995.67	New	100%	$ 995.00	$ 995.00
Administrative CUP - fee for non-profits, etc.		$ 212.35	New	100%	$ 212.00	$ 212.00
Variance Major (single-family)		$ 1,721.86	New	100%	$ 1,721.00	$ 1,721.00
Change in nonconforming use		$ 3,142.20	New	100%	$ 3,142.00	$ 3,142.00
Sign Permit - Temporary		$ 200.02	New	100%	$ 200.00	$ 200.00
Sign Permit - Annual Display Program		$ 437.22	New	100%	$ 437.00	$ 437.00
Sign Permit - Permanent		$ 348.53	New	100%	$ 348.00	$ 348.00
Zoning Verification Letter		$ 200.02	New	100%	$ 200.00	$ 200.00
Special Construction Permit (Noise)		$ 168.00	New	100%	$ 167.00	$ 167.00
Special Plan Review (Lighting, CMD, Parking, etc.)		$ 212.35	New	100%	$ 212.00	$ 212.00
Pre-submittal application review	based on hourly rate of applicable staff member and number of hours involved for all development types except involving individual single family residence	Variable	New	100%	Actual Cost	$ -
General Plan Update Fee	% of Building Permit Fee	11.3%	New	100%	11.3%	11.3%

Recommend 50% reduction of costs if a General Plan Amendment and Zone Change are filed simultaneously

Environmental Services Fees

Fee Description	Unit	Notes	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level (%)	Suggested Fee	Increase/(Decrease)
Environmental Plan Review - Standard	per hour	1 hour min	$ 269.74	40.00	100%	$ 269.00	$ 229.00
NPDES - Environmental Compliance Fee (charged to all non home-based businesses with business license application and renewal)	annual	charged with annual Bus Lic renewal.	$ 33.79	15.00	100%	$ 33.00	$ 18.00
NPDES Permit Inspection - Restaurants	annual	plus consultant costs	$ 54.23	50.00	100%	$ 54.00	$ 4.00
NPDES Permit Inspection - Commercial/Industrial	annual	plus consultant costs	$ 54.23	85.00	100%	$ 54.00	$ (31.00)
STORMWATER MITIGATION REVIEW DEVELOPMENT/REDEVELOPMENT < 5,000 sf impervious area & other land disturbing	Deposit	Plus $62 admin	$ 62.55	300.00	100%	$ 600.00	$ 300.00
STORMATER MITIGATION REVIEW DEV/REDEV 5,000 to 9,999 SF impervious area	Deposit	Plus $62 admin	$ 62.55	600.00	100%	$ 1,200.00	$ 600.00
STORMWATER MITIGATION REVIEW DEV/REDEV >= 10,000 sf impervious area	Deposit	Plus $62 admin	$ 62.55	600.00	100%	$ 1,800.00	$ 1,200.00
CONSTRUCTION SITE STORMWATER PLAN < 1 acre	Deposit	Plus $62 admin	$ 62.55	1,200.00	100%	$ 400.00	$ (800.00)
CONSTRUCTION SITE STORMWATER PLAN >= 1 acre	Deposit	Plus $62 admin	$ 62.55	600.00	100%	$ 800.00	$ 200.00
NPDES Construction Site Inspection	per inspection	(min of 1 per month during active construction)	$ 146.22	75.00	100%	$ 146.00	$ 71.00
NPDES Construction Site Inspection - violation follow-up (per incident)	per inspection	plus consultant costs	$ 246.34	125.00	100%	$ 246.00	$ 121.00
Minor plan review (residential addition, interior-only tenant improvement)	per hour	30 minute min	$ 131.40	New	100%	$ 131.00	$ 131.00
Major plan review (new construction, major tenant improvement, tenant improvement with outdoor construction, grading, other)	per hour	1 hour min	$ 231.52	New	100%	$ 231.00	$ 231.00
Landscape and exterior water usage plan review	per hour	30 minute min	$ 131.40	New	100%	$ 131.00	$ 131.00
Post-construction BMP installation inspections	per inspection	plus consultant costs	$ 98.87	New	100%	$ 98.00	$ 98.00
Post-construction BMP maintenance inspections	per inspection	plus consultant costs	$ 98.87	New	100%	$ 98.00	$ 98.00
Post-construction BMP enforcement	per hour	1 hour min	$ 244.79	New	100%	$ 244.00	$ 244.00
C&D Performance Security Deposit	Refundable Deposit	$30,000 maximum	NA	New	NA	1.5% of valuation cost	$ -
C&D admin review small TIs and Residential Additions (non-refundable)			$ 139.47	New	100%	$ 139.00	$ 139.00
C&D admin review mid-sized Tis, Single Family Residential new construction (non-refundable)			$ 269.61	New	100%	$ 269.00	$ 269.00
C&D admin review large TI, multifamily, Commercial/Industrial and other projects (non-refundable)			$ 602.52	New	100%	$ 602.00	$ 602.00
C&D Diversion Plan additional review or verification	per hour	30 minute min	$ 175.78	New	100%	$ 175.00	$ 175.00
Maintenance Covenant Processing			$ 203.55	New	100%	$ 203.00	$ 203.00

Environmental Services Fees

Fee Description	Unit	Notes	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level (%)	Suggested Fee	Increase/(Decrease)
Transfer of property subject to Maintenance Covenant of structural and/or treatment control BMPs			$ 153.48	New	100%	$ 153.00	$ 153.00
Hazardous Material/Illicit Discharge Response 7:30am-5:30pm Mon-Thurs	per hour	30 minute increments	$ 187.72	75.00	100%	$ 187.00	$ 112.00
Hazardous Material/Illicit Discharge Response 5:30pm-7:30am; Fridays; Saturday; Sunday & Holidays	per hour		$ 273.03	125.00	100%	$ 273.00	$ 148.00
Hazardous Material/Illicit Discharge Response - Material Fee		plus cost of materials	$ 104.06	Actual cost	100%	$ 104.00	$ 104.00
Hazardous Material/Illicit Discharge Response - Cleanup and Disposal Fee	per hour	Plus cost of PW staff time & disposal costs	$ 166.61	Actual cost	100%	$ 166.00	$ 166.00
Refuse - large event and venue waste reduction & recycling plan review			$ 98.87	50.00	100%	$ 98.00	$ 48.00
Illegal Recycling Container Impound Fee		penalty	NA	500.00	100%	$ 500.00	$ 500.00
Minor activity/event review			$ 31.28	New	100%	$ 31.00	$ 31.00
Major activity/event review			$ 62.55	New	100%	$ 62.00	$ 62.00
NPDES Permit "No-Exposure" or "Non-Applicability" or other Certification verification	per verification inspection	Actual consultant cost for inspection plus admin	$ 67.59	New	100%	$ 67.00	$ 67.00
Recycling permit fee	per year		$ 88.75	New	100%	$ 88.00	$ 88.00
Pool discharge permit	per inspection		$ 57.47	New	100%	$ 57.00	$ 57.00
Mobile Washing Permit and equipment/process inspection	per inspection	at Bus Lic review	$ 57.47	New	100%	$ 57.00	$ 57.00
Water quality sampling of illicit discharge	per sampling event	plus sampling costs	$ 198.99	New	100%	$ 198.00	$ 198.00
Compost bin and other item sale			NA	New	100%	Actual Cost	$ -

Industrial Waste Fees (Non-Domestic)

Fee Description	Unit	Notes	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level (%)	Suggested Fee	Increase/(Decrease)
Plan review fee - Class 1- sewer - new	flat	New connection to main line sewer	$ 394.29	574.00	100%	$ 394.00	$ (180.00)
Plan review fee - Class 1 - sewer - revised	flat	Revised connection to main line sewer	$ 394.29	420.00	100%	$ 394.00	$ (26.00)
Plan review fee - Class 1 - on-site - new	flat	Disposal other than sewer system	$ 394.29	651.00	100%	$ 394.00	$ (257.00)
Plan review fee - Class 1 - on-site - revised	flat		$ 394.29	497.00	100%	$ 394.00	$ (103.00)
Plan review fee - Class 1 - off-site - new	flat	Disposal to another location	$ 394.29	613.00	100%	$ 394.00	$ (219.00)
Plan review fee - Class 1 - off-site - revised	flat		$ 394.29	459.00	100%	$ 394.00	$ (65.00)
Plan review fee - Class 2 - sewer - new	flat		$ 394.29	728.00	100%	$ 394.00	$ (334.00)
Plan review fee - Class 2 - sewer - revised	flat		$ 394.29	574.00	100%	$ 394.00	$ (180.00)
Plan review fee - Class 2 - on-site - new	flat		$ 394.29	805.00	100%	$ 394.00	$ (411.00)
Plan review fee - Class 2 - on-site - revised	flat		$ 394.29	651.00	100%	$ 394.00	$ (257.00)
Plan review fee - Class 2 - off-site - new	flat		$ 394.29	767.00	100%	$ 394.00	$ (373.00)
Plan review fee - Class 2 - off-site - revised	flat		$ 394.29	613.00	100%	$ 394.00	$ (219.00)
Plan review fee - Class 3 - sewer - new	flat		$ 394.29	882.00	100%	$ 394.00	$ (488.00)
Plan review fee - Class 3 - sewer - revised	flat		$ 394.29	728.00	100%	$ 394.00	$ (334.00)
Plan review fee - Class 3 - on-site - new	flat		$ 394.29	959.00	100%	$ 394.00	$ (565.00)
Plan review fee - Class 3 - on-site - revised	flat		$ 394.29	805.00	100%	$ 394.00	$ (411.00)
Plan review fee - Class 3 - off-site - new	flat		$ 394.29	921.00	100%	$ 394.00	$ (527.00)
Plan review fee - Class 3 - off-site - revised	flat		$ 394.29	767.00	100%	$ 394.00	$ (373.00)
Plan review fee - Class 4 - sewer - new	flat		$ 394.29	1,036.00	100%	$ 394.00	$ (642.00)
Plan review fee - Class 4 - sewer - revised	flat		$ 394.29	882.00	100%	$ 394.00	$ (488.00)
Plan review fee - Class 4 - on-site - new	flat		$ 394.29	1,114.00	100%	$ 394.00	$ (720.00)
Plan review fee - Class 4 - on-site - revised	flat		$ 394.29	959.00	100%	$ 394.00	$ (565.00)
Plan review fee - Class 4 - off-site - new	flat		$ 394.29	1,075.00	100%	$ 394.00	$ (681.00)
Plan review fee - Class 4 - off-site - revised	flat		$ 394.29	921.00	100%	$ 394.00	$ (527.00)
Plan review fee - Class 5 - sewer - new	flat		$ 394.29	1,191.00	100%	$ 394.00	$ (797.00)
Plan review fee - Class 5 - sewer - revised	flat		$ 394.29	1,036.00	100%	$ 394.00	$ (642.00)
Plan review fee - Class 5 - on-site - new	flat		$ 394.29	1,422.00	100%	$ 394.00	$ (1,028.00)
Plan review fee - Class 5 - on-site - revised	flat		$ 394.29	1,114.00	100%	$ 394.00	$ (720.00)
Plan review fee - Class 5 - off-site - new	flat		$ 394.29	1,229.00	100%	$ 394.00	$ (835.00)
Plan review fee - Class 5 - off-site - revised	flat		$ 394.29	1,075.00	100%	$ 394.00	$ (681.00)
Plan review fee - Class 6 - sewer - new	flat		$ 394.29	1,345.00	100%	$ 394.00	$ (951.00)
Plan review fee - Class 6 - sewer - revised	flat		$ 394.29	1,191.00	100%	$ 394.00	$ (797.00)
Plan review fee - Class 6 - on-site - new	flat		$ 394.29	1,653.00	100%	$ 394.00	$ (1,259.00)
Plan review fee - Class 6 - on-site - revised	flat		$ 394.29	1,422.00	100%	$ 394.00	$ (1,028.00)
Plan review fee - Class 6 - off-site - new	flat		$ 394.29	1,383.00	100%	$ 394.00	$ (989.00)
Plan review fee - Class 6 - off-site - revised	flat		$ 394.29	1,229.00	100%	$ 394.00	$ (835.00)
Industrial waste disposal permit - sewer - new	flat	Application Fee	$ 337.98	343.00	100%	$ 337.00	$ (6.00)
Industrial waste disposal permit - sewer - revised	flat	Application Fee	$ 337.98	228.00	100%	$ 337.00	$ 109.00
Industrial waste disposal permit - on-site - new	flat	Application Fee	$ 337.98	420.00	100%	$ 337.00	$ (83.00)
Industrial waste disposal permit - on-site - revised	flat	Application Fee	$ 337.98	343.00	100%	$ 337.00	$ (6.00)
Industrial waste disposal permit - off-site - new	flat	Application Fee	$ 337.98	459.00	100%	$ 337.00	$ (122.00)
Industrial waste disposal permit - off-site - revised	flat	Application Fee	$ 337.98	305.00	100%	$ 337.00	$ 32.00
Industrial waste annual inspection fee - Class A	per inspection, minimum of 1		$ 229.83	223.00	100%	$ 229.00	$ 6.00
Industrial waste annual inspection fee - Class B	per inspection, minimum of 2		$ 452.71	445.00	100%	$ 452.00	$ 7.00
Industrial waste annual inspection fee - Class C	per inspection, minimum of 3		$ 678.41	667.00	100%	$ 678.00	$ 11.00
Industrial waste annual inspection fee - Class D	per inspection, minimum of 4		$ 898.49	889.00	100%	$ 898.00	$ 9.00
Industrial waste annual inspection fee - Class E	per inspection, 1 every 2 month		$ 1,138.40	1,042.00	100%	$ 1,138.00	$ 96.00
Industrial waste annual inspection fee - Class M	per inspection, 1 every month		$ 1,858.12	2,210.00	100%	$ 1,858.00	$ (352.00)
Industrial waste annual inspection fee - Class RDS	flat	Rain water diversion	$ 372.91	245.00	100%	$ 372.00	$ 127.00

Industrial Waste Fees (Non-Domestic)

Fee Description	Unit	Notes	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level (%)	Suggested Fee	Increase/(Decrease)
Wastewater sampling and analysis		Plus materials and any additional personnel costs	$ 344.67	223.00	100%	$ 344.00	$ 121.00
Application for closure and inspection of pretreatment facility		NA	$ 227.02	357.00	100%	$ 227.00	$ (130.00)
Review of site-remedial investigation and clean-up plan, initial deposit	flat		$ 272.78	309.00	100%	$ 272.00	$ (37.00)
Additional site-remediation investigation, per hour	actual	actual PW staff time + admin	$ 102.93	78.00	100%	$ 102.00	$ 24.00
Inspections outside normal business hours, per hour	Per Hour	2 hours min - Bldg Inspector	$ 378.99	105.00	100%	$ 378.00	$ 273.00
Supplimental or re-inspection	flat		$ 272.78	223.00	100%	$ 272.00	$ 49.00
Additional plan review or revisions of previously approved plans, per hour	Per Hour		$ 336.78	78.00	100%	$ 336.00	$ 258.00

Water Fees

Fee Description	Notes	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level (%)	Suggested Fee	Increase/(Decrease)
Fire Flow Availability		$ 240.08	125.00	100%	$ 240.00	$ 115.00
Water Meter Test		$ 112.25	35.00	100%	$ 112.00	$ 77.00
Initial Service Turn - On Next Bus Day		$ 51.66	-	100%	$ 51.00	$ 51.00
Initiial Service Turn On - After Hours		$ 103.32	120.00	100%	$ 103.00	$ (17.00)
Broken Lock / Damage	plus cost of lock	$ 69.40	Actual Cost	100%	$ 69.00	$ -
Pressure Test		$ 46.85	50.00	100%	$ 46.00	$ (4.00)
Meter Re-Read		$ 37.87	30.00	100%	$ 37.00	$ 7.00
Initial Fire Hydrant Meter Set / Removal		$ 80.04	80.00	100%	$ 80.00	$ -
Each Additional Set and Removal		$ 41.06	40.00	100%	$ 41.00	$ 1.00
Delinquent Account Field Notification		$ 31.53	25.00	100%	$ 31.00	$ 6.00
Mulit-Unit Delinquent Account Field Notification	per unit	$ 3.92	2.00	100%	$ 3.00	$ 1.00
Trip Charge for Additional Field Visit		$ 94.60	15.00	100%	$ 94.00	$ 79.00
Delinquent Reconnect Fee - Next Business Day		$ 81.49	50.00	100%	$ 81.00	$ 31.00
Delinquent Reconnect Fee - After Hours		$ 162.98	120.00	100%	$ 162.00	$ 42.00
Additional Fee if Coustomer has Self-Restored		$ 161.94	100.00	100%	$ 161.00	$ 61.00
Turn on & off Water Service Customer Repair		$ 88.43	-	100%	$ 88.00	$ 88.00
Turn on & off Water Service Customer Repair After Hours - Planned		$ 176.85	120.00	100%	$ 176.00	$ 56.00
Meter Set	plus actual cost	$ 103.27	Actual Cost + Admin Fee	100%	$ 103.00	$ 103.00
Service Line Install	plus actual cost	$ 398.52	Actual Cost + Admin Fee	100%	$ 398.00	$ 398.00

Building Fees

Fee Description	Unit	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level %	Suggested Fee	Increase/ (Decrease)
Standard Hourly Rate		$ 123.97	133.00	100%	$ 123.00	$ (10.00)
Antenna Equipment Container		$ 362.85	346.00	100%	$ 362.00	$ 16.00
Antenna 0-30 ft		$ 362.85	346.00	100%	$ 362.00	$ 16.00
Antenna 31+ ft		$ 362.85	426.00	100%	$ 362.00	$ (64.00)
Cellular/Mobile Phone, free-standing		$ 362.85	293.00	100%	$ 362.00	$ 69.00
Cellular/Mobile Phone, co-location		$ 362.85	293.00	100%	$ 362.00	$ 69.00
Awning or Canopy		$ 165.24	200.00	100%	$ 165.00	$ (35.00)
Balcony addition		$ 225.21	200.00	100%	$ 225.00	$ 25.00
Carport		$ 285.19	173.00	100%	$ 285.00	$ 112.00
Carport (with Calcs)		$ 347.18	240.00	100%	$ 347.00	$ 107.00
Change of Occupancy		$ 302.87	253.00	100%	$ 302.00	$ 49.00
Interior wall		$ 225.21	200.00	100%	$ 225.00	$ 25.00
Exterior wall		$ 225.21	200.00	100%	$ 225.00	$ 25.00
Commercial Coach (per unit)		$ 265.05	280.00	100%	$ 265.00	$ (15.00)
Covered Porch		$ 225.21	200.00	100%	$ 225.00	$ 25.00
Deck (wood)		$ 165.24	160.00	100%	$ 165.00	$ 5.00
Deck (wood) (with Calcs)		$ 227.22	200.00	100%	$ 227.00	$ 27.00
Demolition		$ 203.06	253.00	100%	$ 203.00	$ (50.00)
New door (non structural)		$ 165.24	186.00	100%	$ 165.00	$ (21.00)
New door (structural shear wall/masonry)		$ 227.22	253.00	100%	$ 227.00	$ (26.00)
Up to 10 feet in height (first 100 lf)		$ 225.21	186.00	100%	$ 225.00	$ 39.00
Each additional 100 lf		$ 119.95	67.00	100%	$ 119.00	$ 52.00
Over 10 feet in height (fist 100 lf)		$ 287.20	226.00	100%	$ 287.00	$ 61.00
Over 10 feet in height (first 100 lf with Calcs)		$ 347.18	280.00	100%	$ 347.00	$ 67.00
Each additional 100 lf		$ 119.95	133.00	100%	$ 119.00	$ (14.00)
Masonry, over 3 feet up to 6 feet high (first 100 lf)		$ 225.21	186.00	100%	$ 225.00	$ 39.00
Masonry, over 3 feet up to 6 feet high: Each additional 100 lf		$ 179.93	67.00	100%	$ 179.00	$ 112.00
Masonry, Special Design (6-10' high)		$ 347.18	253.00	100%	$ 347.00	$ 94.00
Masonry, Special Design : Each additional 100 lf		$ 301.89	107.00	100%	$ 301.00	$ 194.00
Masonry, Special Design (over 10' high)		$ 347.18	320.00	100%	$ 347.00	$ 27.00
Masonry, Special Design: Each additional 100 lf		$ 301.89	133.00	100%	$ 301.00	$ 168.00
Fireplace: Masonry		$ 225.21	186.00	100%	$ 225.00	$ 39.00
Fireplace: Masonry (with Calcs)		$ 287.20	253.00	100%	$ 287.00	$ 34.00
Fireplace: Pre-Fabricated / Metal		$ 225.21	280.00	100%	$ 225.00	$ (55.00)
Flag pole (over 30 feet in height)		$ 165.24	160.00	100%	$ 165.00	$ 5.00
Wood frame up to 1,000 s.f.		$ 347.18	320.00	100%	$ 347.00	$ 27.00

Building Fees

Fee Description	Unit	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level %	Suggested Fee	Increase/ (Decrease)
Masonry up to 1,000 s.f.		$ 407.15	453.00	100%	$ 407.00	$ (46.00)
Greenhouse (non-commercial)		$ 165.24	160.00	100%	$ 165.00	$ 5.00
Greenhouse (non-commercial) (with Calcs)		$ 227.22	213.00	100%	$ 227.00	$ 14.00
Lighting pole		$ 203.06	173.00	100%	$ 203.00	$ 30.00
each add'l pole		$ 97.80	53.00	100%	$ 97.00	$ 44.00
Mobile Home		$ 287.20	280.00	100%	$ 287.00	$ 7.00
Mobile Home, double wide		$ 287.20	386.00	100%	$ 287.00	$ (99.00)
Partition - Commercial, Interior (up to 30 lf)		$ 362.85	226.00	100%	$ 362.00	$ 136.00
Partition - Commercial, Interior: Additional partition (each 30 lf)		$ 135.63	107.00	100%	$ 135.00	$ 28.00
Partition - Residential, Interior (up to 30 lf)		$ 287.20	186.00	100%	$ 287.00	$ 101.00
Partition - Residential, Interior: Additional partition (each 30 lf)		$ 59.98	67.00	100%	$ 59.00	$ (8.00)
Wood frame (up to 300 sf)		$ 225.21	186.00	100%	$ 225.00	$ 39.00
Wood frame (up to 300 sf with Calcs)		$ 287.20	253.00	100%	$ 287.00	$ 34.00
Metal frame (up to 300 sf)		$ 225.21	160.00	100%	$ 225.00	$ 65.00
Other frame (up to 300 sf)		$ 225.21	186.00	100%	$ 225.00	$ 39.00
Additional patio (up to 300 sf)		$ 59.98	80.00	100%	$ 59.00	$ (21.00)
Enclosed (up to 300 sf)		$ 285.19	160.00	100%	$ 285.00	$ 125.00
Enclosed, wood frame (up to 300 sf with Calcs)		$ 347.18	200.00	100%	$ 347.00	$ 147.00
Enclosed, metal frame (up to 300 sf)		$ 285.19	186.00	100%	$ 285.00	$ 99.00
Enclosed, metal frame (up to 300 sf with Calcs)		$ 347.18	213.00	100%	$ 347.00	$ 134.00
Enclosed, other frame (up to 300 sf)		$ 285.19	240.00	100%	$ 285.00	$ 45.00
Additional enclosed patio (each 300 sf)		$ 59.98	93.00	100%	$ 59.00	$ (34.00)
Photovoltaic System (per KWh)		$ 287.20	266.00	100%	$ 287.00	$ 21.00
Cast in Place Concrete (first 10 piles)		$ 165.24	160.00	100%	$ 165.00	$ 5.00
Cast in Place Concrete: Additional Piles (increments of 10)		$ 59.98	80.00	100%	$ 59.00	$ (21.00)
Driven (steel, pre-stressed concrete up to 10)		$ 165.24	186.00	100%	$ 165.00	$ (21.00)
Driven: Additional Piles (increments of 10)		$ 59.98	80.00	100%	$ 59.00	$ (21.00)
Pre-Plan Inspection	per hour	$ 165.24	133.00	100%	$ 165.00	$ 32.00
Stucco Applications (up to 400 sf)		$ 165.24	160.00	100%	$ 165.00	$ 5.00
Additional Stucco Application (each 400 sf)		$ 59.98	27.00	100%	$ 59.00	$ 32.00
Relocated Building (within 25 miles of city offices)		Actual Cost	306.00	100%	Actual Cost	$ -
Relocated Building: Each additional 10 miles (or portion thereof)		Actual Cost	-	100%	Actual Cost	$ -
First 50 lf		$ 165.24	186.00	100%	$ 165.00	$ (21.00)
Additional retaining wall (each 50 lf)		$ 29.99	13.00	100%	$ 29.00	$ 16.00
Special Design, 3-10' high (up to 50 lf)		$ 287.20	280.00	100%	$ 287.00	$ 7.00
Special Design, 3-10' high: Additional retaining wall (each 50 lf)		$ 59.98	27.00	100%	$ 59.00	$ 32.00

Building Fees

Fee Description	Unit	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level %	Suggested Fee	Increase/ (Decrease)
Special Design, over 10' high (up to 50 lf)		$ 287.20	333.00	100%	$ 287.00	$ (46.00)
Special Design, 3-10' high: Additional retaining wall (each 50 lf)		$ 59.98	40.00	100%	$ 59.00	$ 19.00
Gravity / Crib Wall (first 50 lf)		$ 225.21	213.00	100%	$ 225.00	$ 12.00
Gravity / Crib Wall: Additional Gravity / Crib Wall (each 50 lf)		$ 59.98	27.00	100%	$ 59.00	$ 32.00
Gravity / Crib Wall, over 10' high (up to 50 lf)		$ 287.20	240.00	100%	$ 287.00	$ 47.00
Gravity / Crib Wall, over 10' high: Additional Gravity / Crib Wall (each 50 lf)		$ 59.98	40.00	100%	$ 59.00	$ 19.00
500 s.f. Single Story		$ 285.19	240.00	100%	$ 285.00	$ 45.00
Kitchen (more than 500 sf)		$ 285.19	320.00	100%	$ 285.00	$ (35.00)
Additional remodel (Garage Conversions - each 500 sf)		$ 59.98	67.00	100%	$ 59.00	$ (8.00)
Tile/Shake (first 100 sf)		$ 165.24	93.00	100%	$ 165.00	$ 72.00
Tile/Shake: Each additional 100 sf		$ 29.99	13.00	100%	$ 29.00	$ 16.00
Comp/Metal (first 100 sf)		$ 165.24	80.00	100%	$ 165.00	$ 85.00
Comp/Metal: Each additional 100 sf		$ 29.99	13.00	100%	$ 29.00	$ 16.00
Roof Structure Replacement (up to 100 sf)		$ 225.21	160.00	100%	$ 225.00	$ 65.00
Additional roof structure replacement (each 100 sf)		$ 59.98	27.00	100%	$ 59.00	$ 32.00
Up to 500 s.f.		$ 285.19	373.00	100%	$ 285.00	$ (88.00)
Up to 500 s.f. (with Calcs)		$ 347.18	400.00	100%	$ 347.00	$ (53.00)
Additional room addition (over 500 s.f.)		$ 119.95	120.00	100%	$ 119.00	$ (1.00)
Additional room addition (over 500 s.f. with Calcs)		$ 181.94	146.00	100%	$ 181.00	$ 35.00
Up to 500 s.f.		$ 347.18	400.00	100%	$ 347.00	$ (53.00)
Up to 500 s.f. (with Calcs)		$ 347.18	346.00	100%	$ 347.00	$ 1.00
Additional room addition (over 500 s.f.)		$ 119.95	120.00	100%	$ 119.00	$ (1.00)
Additional room addition (over 500 s.f. with Calcs)		$ 181.94	146.00	100%	$ 181.00	$ 35.00
Sauna - steam		$ 225.21	240.00	100%	$ 225.00	$ (15.00)
Stone and Brick Veneer (interior or exterior - up to 400 sf)		$ 225.21	160.00	100%	$ 225.00	$ 65.00
All Other (up to 400 sf)		$ 59.98	120.00	100%	$ 59.00	$ (61.00)
Additional siding (each 400 sf)		$ 59.98	13.00	100%	$ 59.00	$ 46.00
Permanent		$ 165.24	160.00	100%	$ 165.00	$ 5.00
Temporary		$ 165.24	120.00	100%	$ 165.00	$ 45.00
Directional		$ 105.26	120.00	100%	$ 105.00	$ (15.00)
Each additional Directional Sign		$ 59.98	27.00	100%	$ 59.00	$ 32.00
Freeway sign		$ 285.19	346.00	100%	$ 285.00	$ (61.00)
Freeway sign with Master Plan		$ 285.19	479.00	100%	$ 285.00	$ (194.00)
Ground / Roof / Projecting Signs		$ 225.21	240.00	100%	$ 225.00	$ (15.00)
Wall/Awning Sign, Non-Electric		$ 105.26	107.00	100%	$ 105.00	$ (2.00)

Building Fees

Fee Description	Unit	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level %	Suggested Fee	Increase/ (Decrease)
Wall, Electric		$ 225.21	133.00	100%	$ 225.00	$ 92.00
Less than 10 sf		$ 165.24	146.00	100%	$ 165.00	$ 19.00
Greater than 10 sf or structural		$ 227.22	213.00	100%	$ 227.00	$ 14.00
Spa or Hot Tub (Pre-fabricated)		$ 165.24	120.00	100%	$ 165.00	$ 45.00
Stairs - First Flight		$ 165.24	160.00	100%	$ 165.00	$ 5.00
Each additional flight		$ 59.98	40.00	100%	$ 59.00	$ 19.00
0-8' high (up to 100 lf)		$ 240.89	133.00	100%	$ 240.00	$ 107.00
0-8' high: each additional 100 lf		$ 135.63	27.00	100%	$ 135.00	$ 108.00
over 8' high (up to 100 lf)		$ 302.87	173.00	100%	$ 302.00	$ 129.00
over 8' high: each additional 100 lf		$ 135.63	40.00	100%	$ 135.00	$ 95.00
Vinyl-lined (up to 800 s.f.)		$ 287.20	280.00	100%	$ 287.00	$ 7.00
Fiberglass		$ 287.20	293.00	100%	$ 287.00	$ (6.00)
Gunite - Custom and to establish master (up to 800 s.f.)		$ 407.15	479.00	100%	$ 407.00	$ (72.00)
Additional pool (over 800 sf)		$ 105.26	80.00	100%	$ 105.00	$ 25.00
Commercial pool (up to 800 sf)		$ 407.15	413.00	100%	$ 407.00	$ (6.00)
Commercial pool (over 800 sf)		$ 407.15	439.00	100%	$ 407.00	$ (32.00)
Temporary Utility Connection or Occupancy		$ 165.24	133.00	100%	$ 165.00	$ 32.00
Replacement (frame and pane)	each 10	$ 165.24	133.00	100%	$ 165.00	$ 32.00
New Window (non structural)	each 10	$ 165.24	160.00	100%	$ 165.00	$ 5.00
New window (structural shear wall/masonry)	each 10	$ 227.22	186.00	100%	$ 227.00	$ 41.00
Bay Window (structural)		$ 227.22	213.00	100%	$ 227.00	$ 14.00
Carnivals and Tents		$ 205.07	160.00	100%	$ 205.00	$ 45.00
Underground Storage Tanks installation/removal	per tank	$ 300.86	200.00	100%	$ 300.00	$ 100.00
ADA Ramps		$ 287.20	160.00	100%	$ 287.00	$ 127.00
Research	per 1/2 hour	$ 105.26	75.00	100%	$ 105.00	$ 30.00
Pre-Plan Inspection	per hour	$ 169.25	133.00	100%	$ 169.00	$ 36.00
Supplemental Plan Check Fee (@ Counter)	per hour	$ 169.25	133.00	100%	$ 169.00	$ 36.00
Supplemental Inspection Fee	per hour	$ 169.25	133.00	100%	$ 169.00	$ 36.00
Change of Contractor		$ 45.28	40.00	100%	$ 45.00	$ 5.00
Code Compliance Inspections/Reinspection		$ 218.80	253.00	100%	$ 218.00	$ (35.00)
Emergency (Non-Scheduled) Call-Out Fee	4 hr min	$ 45.28	532.00	100%	$ 45.00	$ (487.00)
After Hours (Scheduled) Call-Out Fee	2 hr min	$ 405.14	266.00	100%	$ 405.00	$ 139.00
Each additional call-out hour		$ 225.21	133.00	100%	$ 225.00	$ 92.00
Re-Check Fee	per 1/2 hour	$ 107.27	75.00	100%	$ 107.00	$ 32.00
Reinspection Fee	per 1/2 hour	$ 105.26	75.00	100%	$ 105.00	$ 30.00
Fire Safe Standards Review (SRA)	per hour	$ 169.25	133.00	100%	$ 169.00	$ 36.00

Building Fees

Fee Description	Unit	Full Cost	Current Fee FY 2013/14	Targeted Cost Recovery Level %	Suggested Fee	Increase/ (Decrease)
FEMA Flood Zone Review	per hour	$ 169.25	133.00	100%	$ 169.00	$ 36.00
Soils Review (up to 1/2 hour)		$ 169.25	75.00	100%	$ 169.00	$ 94.00
Special Inspector Application (new item)		$ 45.28	44.39	100%	$ 45.00	$ 0.61
Deed Restriction	per 1/2 hour	$ 107.27	75.00	100%	$ 107.00	$ 32.00
Travel and Documentation (standard)		$ 45.28	36.00	100%	$ 45.00	$ 9.00
Travel and Documentation (additional trip)		$ 45.28	36.00	100%	$ 45.00	$ 9.00
Permit Issuance		$ 45.28	15.00	100%	$ 45.00	$ 30.00
Reinspection Fee	per hour	$ 165.24	133.00	100%	$ 165.00	$ 32.00
Stand Alone Mechanical Plan Check	per hour	$ 169.25	133.00	100%	$ 169.00	$ 36.00
Stand Alone Plumbing Plan Check	per hour	$ 166.94	133.00	100%	$ 166.00	$ 33.00
Stand Alone Electrical Plan Check	per hour	$ 169.25	133.00	100%	$ 169.00	$ 36.00
Single Phase Service	per 100 amps	$ 165.24	67.00	100%	$ 165.00	$ 98.00
Three Phase Service	per 100 amps	$ 165.24	80.00	100%	$ 165.00	$ 85.00
Other Electrical Inspections	per hour	$ 165.24	133.00	100%	$ 165.00	$ 32.00
"After Hours" Construction Permit		$ 45.28	50.00	100%	$ 45.00	$ (5.00)

CITY OF COVINA

CONSOLIDATED SCHEDULE OF NEW CONSTRUCTION FEES (P/C PROCESSING AND INSPECTION COMBINED)

(All Construction Types)

NEW CONSTRUCTION

UBC Class	Occupancy Type	Project Size Threshold	Types IA (I & IIFR) Current Fee	Full Cost using % change needed	Suggested Base Fee	Current Fee for Each Additional 100 s.f.	Full Cost using % change needed	Suggested Fee for Each Additional 100 s.f.	Difference in base fee	Types IB, IIA, IIIA, VA ~~(II & III & V-1HR)~~ Current Fee	Full Cost using % change needed	Suggested Base Fee	Current Fee for Each Additional 100 s.f.	Full Cost using ICC per sq ft	Suggested Fee for Each Additional 100 s.f.	Difference in base fee	Types IIB, IIIB, IV, VB ~~(II, III, IV, V-N)~~ Current Fee	Full cost using % change needed	Suggested Base Fee	Current Fee for Each Additional 100 s.f.	Full Cost using ICC per sq ft	Suggested Fee for Each Additional 100 s.f.	Difference in base fee
A-1	Medical offices with OSHPD cert	1,000	$2,280	$2,580.33	$2,322.29	$7.50	$8.48	$7.63	$42.29	$1,900	$2,150.27	$1,935.25	$6.25	$7.07	$6.36	$35.25	$1,520	$1,720.22	$1,548.20	$5.00	$5.65	$5.09	$28.20
		5,000	$2,580	$2,919.84	$2,627.86	$9.15	$10.36	$9.32	$47.86	$2,150	$2,433.20	$2,189.88	$7.60	$8.60	$7.74	$39.88	$1,720	$1,946.56	$1,751.91	$6.10	$6.90	$6.21	$31.91
		10,000	$3,035	$3,434.39	$3,090.95	$5.10	$5.77	$5.19	$56.29	$2,530	$2,863.26	$2,576.93	$4.30	$4.87	$4.38	$46.93	$2,025	$2,291.74	$2,062.56	$3.45	$3.90	$3.51	$37.56
		20,000	$3,545	$4,011.96	$3,610.76	$2.00	$2.26	$2.04	$65.76	$2,955	$3,344.24	$3,009.82	$1.65	$1.87	$1.68	$54.82	$2,365	$2,676.52	$2,408.87	$1.35	$1.53	$1.38	$43.87
		50,000	$4,150	$4,696.65	$4,226.98	$2.70	$3.06	$2.75	$76.98	$3,455	$3,910.10	$3,519.09	$2.25	$2.55	$2.29	$64.09	$2,765	$3,129.21	$2,816.29	$1.80	$2.04	$1.83	$51.29
		100,000	$5,485	$6,207.50	$5,586.75	$5.50	$6.22	$5.60	$101.75	$4,570	$5,171.97	$4,654.77	$4.55	$5.15	$4.63	$84.77	$3,655	$4,136.02	$3,722.41	$3.65	$4.14	$3.72	$67.79
A-1	Theater	1,000	$3,907	$4,421.64	$3,979.48	$13.13	$14.86	$13.37	$72.48	$3,256	$3,684.89	$3,316.40	$10.94	$12.38	$11.14	$60.40	$2,605	$2,948.14	$2,653.32	$8.75	$9.90	$8.91	$48.32
		5,000	$4,432	$5,015.79	$4,514.21	$16.02	$18.13	$16.32	$82.21	$3,694	$4,180.58	$3,762.52	$13.35	$15.11	$13.60	$68.52	$2,955	$3,344.24	$3,009.82	$10.68	$12.09	$10.88	$54.82
		10,000	$5,233	$5,922.30	$5,330.07	$8.99	$10.17	$9.16	$97.07	$4,361	$4,935.44	$4,441.90	$7.49	$8.48	$7.63	$80.90	$3,489	$3,948.58	$3,553.72	$5.99	$6.78	$6.10	$64.72
		20,000	$6,132	$6,939.72	$6,245.75	$3.50	$3.96	$3.56	$113.75	$5,110	$5,783.10	$5,204.79	$2.92	$3.30	$2.97	$94.79	$4,088	$4,626.48	$4,163.83	$2.33	$2.64	$2.37	$75.83
		50,000	$7,182	$8,128.03	$7,315.23	$4.72	$5.34	$4.81	$133.23	$5,985	$6,773.36	$6,096.02	$3.93	$4.45	$4.00	$111.02	$4,788	$5,418.69	$4,876.82	$3.14	$3.55	$3.20	$88.82
		100,000	$9,540	$10,796.63	$9,716.97	$9.54	$10.80	$9.72	$176.97	$7,950	$8,997.19	$8,097.47	$7.95	$9.00	$8.10	$147.47	$6,360	$7,197.75	$6,477.98	$6.36	$7.20	$6.48	$117.98
A-2	Church	1,000	$3,907	$4,421.64	$3,979.48	$13.13	$14.86	$13.37	$72.48	$3,256	$3,684.89	$3,316.40	$10.94	$12.38	$11.14	$60.40	$2,605	$2,948.14	$2,653.32	$8.75	$9.90	$8.91	$48.32
		5,000	$4,432	$5,015.79	$4,514.21	$16.02	$18.13	$16.32	$82.21	$3,694	$4,180.58	$3,762.52	$13.35	$15.11	$13.60	$68.52	$2,955	$3,344.24	$3,009.82	$10.68	$12.09	$10.88	$54.82
		10,000	$5,233	$5,922.30	$5,330.07	$8.99	$10.17	$9.16	$97.07	$4,361	$4,935.44	$4,441.90	$7.49	$8.48	$7.63	$80.90	$3,489	$3,948.58	$3,553.72	$5.99	$6.78	$6.10	$64.72
		20,000	$6,132	$6,939.72	$6,245.75	$3.50	$3.96	$3.56	$113.75	$5,110	$5,783.10	$5,204.79	$2.92	$3.30	$2.97	$94.79	$4,088	$4,626.48	$4,163.83	$2.33	$2.64	$2.37	$75.83
		50,000	$7,182	$8,128.03	$7,315.23	$4.72	$5.34	$4.81	$133.23	$5,985	$6,773.36	$6,096.02	$3.93	$4.45	$4.00	$111.02	$4,788	$5,418.69	$4,876.82	$3.14	$3.55	$3.20	$88.82
		100,000	$9,540	$10,796.63	$9,716.97	$9.54	$10.80	$9.72	$176.97	$7,950	$8,997.19	$8,097.47	$7.95	$9.00	$8.10	$147.47	$6,360	$7,197.75	$6,477.98	$6.36	$7.20	$6.48	$117.98
A-2.1	Auditorium	1,000	$3,907	$4,421.64	$3,979.48	$13.13	$14.86	$13.37	$72.48	$3,256	$3,684.89	$3,316.40	$10.94	$12.38	$11.14	$60.40	$2,605	$2,948.14	$2,653.32	$8.75	$9.90	$8.91	$48.32
		5,000	$4,432	$5,015.79	$4,514.21	$16.02	$18.13	$16.32	$82.21	$3,694	$4,180.58	$3,762.52	$13.35	$15.11	$13.60	$68.52	$2,955	$3,344.24	$3,009.82	$10.68	$12.09	$10.88	$54.82
		10,000	$5,233	$5,922.30	$5,330.07	$8.99	$10.17	$9.16	$97.07	$4,361	$4,935.44	$4,441.90	$7.49	$8.48	$7.63	$80.90	$3,489	$3,948.58	$3,553.72	$5.99	$6.78	$6.10	$64.72
		20,000	$6,132	$6,939.72	$6,245.75	$3.50	$3.96	$3.56	$113.75	$5,110	$5,783.10	$5,204.79	$2.92	$3.30	$2.97	$94.79	$4,088	$4,626.48	$4,163.83	$2.33	$2.64	$2.37	$75.83
		50,000	$7,182	$8,128.03	$7,315.23	$4.72	$5.34	$4.81	$133.23	$5,985	$6,773.36	$6,096.02	$3.93	$4.45	$4.00	$111.02	$4,788	$5,418.69	$4,876.82	$3.14	$3.55	$3.20	$88.82
		100,000	$9,540	$10,796.63	$9,716.97	$9.54	$10.80	$9.72	$176.97	$7,950	$8,997.19	$8,097.47	$7.95	$9.00	$8.10	$147.47	$6,360	$7,197.75	$6,477.98	$6.36	$7.20	$6.48	$117.98
A-2.1	Restaurant	1,000	$4,698	$5,316.83	$4,785.15	$15.76	$17.84	$16.05	$87.15	$3,915	$4,430.69	$3,987.62	$13.13	$14.86	$13.37	$72.62	$3,132	$3,544.55	$3,190.10	$10.51	$11.89	$10.70	$58.10
		5,000	$5,328	$6,029.82	$5,426.83	$19.23	$21.76	$19.59	$98.83	$4,440	$5,024.85	$4,522.36	$16.03	$18.14	$16.33	$82.36	$3,552	$4,019.88	$3,617.89	$12.82	$14.51	$13.06	$65.89
		10,000	$6,290	$7,118.53	$6,406.68	$10.82	$12.25	$11.02	$116.68	$5,241	$5,931.36	$5,338.22	$9.01	$10.20	$9.18	$97.22	$4,193	$4,745.31	$4,270.78	$7.21	$8.16	$7.34	$77.78
		20,000	$7,371	$8,341.93	$7,507.73	$4.21	$4.76	$4.29	$136.73	$6,143	$6,952.17	$6,256.95	$3.50	$3.96	$3.56	$113.95	$4,914	$5,561.28	$5,005.16	$2.80	$3.17	$2.85	$91.16
		50,000	$8,633	$9,770.16	$8,793.14	$5.66	$6.41	$5.76	$160.14	$7,194	$8,141.61	$7,327.45	$4.71	$5.33	$4.80	$133.45	$5,755	$6,513.06	$5,861.76	$3.77	$4.27	$3.84	$106.76
		100,000	$11,460	$12,969.54	$11,672.58	$11.46	$12.97	$11.67	$212.58	$9,550	$10,807.95	$9,727.15	$9.55	$10.81	$9.73	$177.15	$7,640	$8,646.36	$7,781.72	$7.64	$8.65	$7.78	$141.72
A-3	Small Assembly Buildings	100	$2,338	$2,645.97	$2,381.37	$75.07	$84.96	$76.46	$43.37	$1,949	$2,205.73	$1,985.15	$62.56	$70.80	$63.72	$36.15	$1,559	$1,764.36	$1,587.92	$50.05	$56.64	$50.98	$28.92
		500	$2,639	$2,986.62	$2,687.95	$91.53	$103.59	$93.23	$48.95	$2,199	$2,488.66	$2,239.79	$76.28	$86.33	$77.70	$40.79	$1,759	$1,990.70	$1,791.63	$61.02	$69.06	$62.15	$32.63
		1,000	$3,096	$3,503.81	$3,153.43	$51.48	$58.26	$52.43	$57.43	$2,580	$2,919.84	$2,627.86	$42.90	$48.55	$43.70	$47.86	$2,064	$2,335.87	$2,102.29	$34.32	$38.84	$34.96	$38.29
		2,000	$3,611	$4,086.65	$3,677.98	$20.01	$22.65	$20.38	$66.98	$3,009	$3,405.35	$3,064.82	$16.67	$18.87	$16.98	$55.82	$2,407	$2,724.06	$2,451.65	$13.34	$15.10	$13.59	$44.65
		5,000	$4,211	$4,765.68	$4,289.11	$26.90	$30.44	$27.40	$78.11	$3,509	$3,971.21	$3,574.09	$22.41	$25.36	$22.83	$65.09	$2,808	$3,177.88	$2,860.09	$17.93	$20.29	$18.26	$52.09
		10,000	$5,556	$6,287.85	$5,659.06	$55.56	$62.88	$56.59	$103.06	$4,630	$5,239.87	$4,715.89	$46.30	$52.40	$47.16	$85.89	$3,704	$4,191.90	$3,772.71	$37.04	$41.92	$37.73	$68.71
A-3	Bowling Alley	1,000	$2,420	$2,738.77	$2,464.89	$7.92	$8.96	$8.07	$44.89	$2,017	$2,282.68	$2,054.42	$6.60	$7.47	$6.72	$37.42	$1,613	$1,825.47	$1,642.92	$5.28	$5.98	$5.38	$29.92
		5,000	$2,737	$3,097.52	$2,787.77	$9.66	$10.93	$9.84	$50.77	$2,281	$2,581.46	$2,323.31	$8.05	$9.11	$8.20	$42.31	$1,824	$2,064.26	$1,857.84	$6.44	$7.29	$6.56	$33.84
		10,000	$3,220	$3,644.15	$3,279.73	$5.44	$6.16	$5.54	$59.73	$2,683	$3,036.41	$2,732.77	$4.53	$5.13	$4.61	$49.77	$2,146	$2,428.68	$2,185.81	$3.62	$4.10	$3.69	$39.81
		20,000	$3,763	$4,258.67	$3,832.80	$2.12	$2.40	$2.16	$69.80	$3,136	$3,549.08	$3,194.17	$1.76	$1.99	$1.79	$58.17	$2,509	$2,839.49	$2,555.54	$1.41	$1.60	$1.44	$46.54
		50,000	$4,398	$4,977.31	$4,479.58	$2.84	$3.21	$2.89	$81.58	$3,665	$4,147.76	$3,732.99	$2.37	$2.68	$2.41	$67.99	$2,932	$3,318.21	$2,986.39	$1.90	$2.15	$1.94	$54.39
		100,000	$5,820	$6,586.62	$5,927.96	$5.82	$6.59	$5.93	$107.96	$4,850	$5,488.85	$4,939.97	$4.85	$5.49	$4.94	$89.97	$3,880	$4,391.08	$3,951.97	$3.88	$4.39	$3.95	$71.97
A-3	Library / Museum	1,000	$3,025	$3,423.46	$3,081.11	$9.90	$11.20	$10.08	$56.11	$2,521	$2,853.07	$2,567.76	$8.25	$9.34	$8.40	$46.76	$2,017	$2,282.68	$2,054.42	$6.60	$7.47	$6.72	$37.42
		5,000	$3,421	$3,871.62	$3,484.46	$12.08	$13.67	$12.30	$63.46	$2,851	$3,226.54	$2,903.89	$10.06	$11.39	$10.25	$52.89	$2,281	$2,581.46	$2,323.31	$8.05	$9.11	$8.20	$42.31
		10,000	$4,025	$4,555.18	$4,099.66	$6.80	$7.70	$6.93	$74.66	$3,354	$3,795.80	$3,416.22	$5.66	$6.41	$5.76	$62.22	$2,683	$3,036.41	$2,732.77	$4.53	$5.13	$4.61	$49.77
		20,000	$4,704	$5,323.62	$4,791.26	$2.65	$3.00	$2.70	$87.26	$3,920	$4,436.35	$3,992.72	$2.20	$2.49	$2.24	$72.72	$3,136	$3,549.08	$3,194.17	$1.76	$1.99	$1.79	$58.17
		50,000	$5,498	$6,222.21	$5,599.99	$3.56	$4.03	$3.63	$101.99	$4,581	$5,184.42	$4,665.98	$2.96	$3.35	$3.01	$84.98	$3,665	$4,147.76	$3,732.99	$2.37	$2.68	$2.41	$67.99
		100,000	$7,275	$8,233.28	$7,409.95	$7.28	$8.24	$7.42	$134.95	$6,063	$6,861.63	$6,175.47	$6.06	$6.86	$6.17	$112.47	$4,850	$5,488.85	$4,939.97	$4.85	$5.49	$4.94	$89.97
B	Banks	1,000	$3,918	$4,434.09	$3,990.68	$13.18	$14.92	$13.42	$72.68	$3,265	$3,695.07	$3,325.57	$10.98	$12.43	$11.18	$60.57	$2,612	$2,956.06	$2,660.45	$8.78	$9.94	$8.94	$48.45
		5,000	$4,445	$5,030.51	$4,527.46	$16.04	$18.15	$16.34	$82.46	$3,705	$4,193.03	$3,773.73	$13.37	$15.13	$13.62	$68.73	$2,964	$3,354.43	$3,018.98	$10.70	$12.11	$10.90	$54.98
		10,000	$5,248	$5,939.28	$5,345.35	$9.04	$10.23	$9.21	$97.35	$4,373	$4,949.02	$4,454.12	$7.53	$8.52	$7.67	$81.12	$3,498	$3,958.76	$3,562.89	$6.02	$6.81	$6.13	$64.89
		20,000	$6,151	$6,961.22	$6,265.10	$3.52	$3.98	$3.59	$114.10	$5,126	$5,801.21	$5,221.09	$2.93	$3.32	$2.98	$95.09	$4,101	$4,641.19	$4,177.07	$2.34	$2.65	$2.38	$76.07
		50,000	$7,206	$8,155.19	$7,339.67	$4.72	$5.34	$4.81	$133.67	$6,005	$6,795.99	$6,116.39	$3.93	$4.45	$4.00	$111.39	$4,804	$5,436.79	$4,893.11	$3.14	$3.55	$3.20	$89.11
		100,000	$9,564	$10,823.79	$9,741.41	$9.56	$10.82	$9.74	$177.41	$7,970	$9,019.83	$8,117.84	$7.97	$9.02	$8.12	$147.84	$6,376	$7,215.86	$6,494.28	$6.38	$7.22	$6.50	$118.28
B	Car Wash	1,000	$2,328	$2,634.65	$2,371.18	$7.61	$8.61	$7.75	$43.18	$1,940	$2,195.54	$1,975.99	$6.35	$7.19	$6.47	$35.99	$1,552	$1,756.43	$1,580.79	$5.08	$5.75	$5.17	$28.79
		5,000	$2,633	$2,979.82	$2,681.84	$9.26	$10.48	$9.43	$48.84	$2,194	$2,483.00	$2,234.70	$7.72	$8.74	$7.86	$40.70	$1,755	$1,986.17	$1,787.56	$6.18	$6.99	$6.29	$32.56
		10,000	$3,096	$3,503.81	$3,153.43	$5.21	$5.90	$5.31	$57.43	$2,580	$2,919.84	$2,627.86	$4.34	$4.91	$4.42	$47.86	$2,064	$2,335.87	$2,102.29	$3.47	$3.93	$3.53	$38.29
		20,000	$3,617	$4,093.44	$3,684.10	$2.02	$2.29	$2.06	$67.10	$3,014	$3,411.01	$3,069.91	$1.69	$1.91	$1.72	$55.91	$2,411	$2,728.58	$2,455.72	$1.35	$1.53	$1.38	$44.72
		50,000	$4,224	$4,780.40	$4,302.36	$2.74	$3.10	$2.79	$78.36	$3,520	$3,983.66	$3,585.30	$2.28	$2.58	$2.32	$65.30	$2,816	$3,186.93	$2,868.24	$1.82	$2.06	$1.85	$52.24
		100,000	$5,592	$6,328.59	$5,695.73	$5.59	$6.33	$5.69	$103.73	$4,660	$5,273.83	$4,746.44	$4.66	$5.27	$4.75	$86.44	$3,728	$4,219.06	$3,797.15	$3.73	$4.22	$3.80	$69.15
B	High Rise Offices	1,000	$4,479	$5,068.98	$4,562.09	$15.14	$17.13	$15.42	$83.09	$3,732	$4,223.59	$3,801.23	$12.62	$14.28	$12.85	$69.23	$2,986	$3,379.32	$3,041.39	$10.09	$11.42	$10.28	$55.39
		5,000	$5,084	$5,753.68	$5,178.31	$18.46	$20.89	$18.80	$94.31	$4,237	$4,795.11	$4,315.60	$15.38	$17.41	$15.67	$78.60	$3,390	$3,836.54	$3,452.88	$12.30	$13.92	$12.53	$62.88
		10,000	$6,007	$6,798.26	$6,118.43	$10.37	$11.74	$10.56	$111.43	$5,006	$5,665.40	$5,098.86	$8.64	$9.78	$8.80	$92.86	$4,005	$4,532.55	$4,079.29	$6.91	$7.82	$7.04	$74.29
		20,000	$7,044	$7,971.85	$7,174.67	$4.04	$4.57	$4.11	$130.67	$5,870	$6,643.21	$5,978.89	$3.37	$3.81	$3.43	$108.89	$4,696	$5,314.57	$4,783.11	$2.69	$3.04	$2.74	$87.11
		50,000	$8,256	$9,343.50	$8,409.15	$5.42	$6.13	$5.52	$153.15	$6,880	$7,786.25	$7,007.62	$4.52	$5.12	$4.60	$127.62	$5,504	$6,229.00	$5,606.10	$3.62	$4.10	$3.69	$102.10
		100,000	$10,968	$12,412.73	$11,171.46	$10.97	$12.41	$11.17	$203.46	$9,140	$10,343.94	$9,309.55	$9.14	$10.34	$9.31	$169.55	$7,312	$8,275.15	$7,447.64	$7.31	$8.27	$7.45	$135.64
B	High Rise Offices - Phased Permits	1,000	$4,479	$5,068.98	$4,562.09	$15.14	$17.13	$15.42	$83.09	$3,732	$4,223.59	$3,801.23	$12.62	$14.28	$12.85	$69.23	$2,986	$3,379.32	$3,041.39	$10.09	$11.42	$10.28	$55.39

EXHIBIT A

CITY OF COVINA
CONSOLIDATED SCHEDULE OF NEW CONSTRUCTION FEES (P/C PROCESSING AND INSPECTION COMBINED)
(All Construction Types)

NEW CONSTRUCTION

UBC Class	Occupancy Type	Project Size Threshold	Types IA (I & IIFR) Current Fee	Full Cost using % change needed	Suggested Base Fee	Current Fee for Each Additional 100 s.f.	Full Cost using % change needed	Suggested Fee for Each Additional 100 s.f.	Difference in base fee	Types IB, IIA, IIIA, VA ~~(II & III & V-1HR)~~ Current Fee	Full Cost using % change needed	Suggested Base Fee	Current Fee for Each Additional 100 s.f.	Full Cost using ICC per sq ft	Suggested Fee for Each Additional 100 s.f.	Difference in base fee	Types IIB, IIIB, IV, VB ~~(II, III, IV, V-N)~~ Current Fee	Full cost using % change needed	Suggested Base Fee	Current Fee for Each Additional 100 s.f.	Full Cost using ICC per sq ft	Suggested Fee for Each Additional 100 s.f.	Difference in base fee
		5,000	$5,084	$5,753.68	$5,178.31	$18.46	$20.89	$18.80	$94.31	$4,237	$4,795.11	$4,315.60	$15.38	$17.41	$15.67	$78.60	$3,390	$3,836.54	$3,452.88	$12.30	$13.92	$12.53	$62.88
		10,000	$6,007	$6,798.26	$6,118.43	$10.37	$11.74	$10.56	$111.43	$5,006	$5,665.40	$5,098.86	$8.64	$9.78	$8.80	$92.86	$4,005	$4,532.55	$4,079.29	$6.91	$7.82	$7.04	$74.29
		20,000	$7,044	$7,971.85	$7,174.67	$4.04	$4.57	$4.11	$130.67	$5,870	$6,643.21	$5,978.89	$3.37	$3.81	$3.43	$108.89	$4,696	$5,314.57	$4,783.11	$2.69	$3.04	$2.74	$87.11
		50,000	$8,256	$9,343.50	$8,409.15	$5.42	$6.13	$5.52	$153.15	$6,880	$7,786.25	$7,007.62	$4.52	$5.12	$4.60	$127.62	$5,504	$6,229.00	$5,606.10	$3.62	$4.10	$3.69	$102.10
		100,000	$10,968	$12,412.73	$11,171.46	$10.97	$12.41	$11.17	$203.46	$9,140	$10,343.94	$9,309.55	$9.14	$10.34	$9.31	$169.55	$7,312	$8,275.15	$7,447.64	$7.31	$8.27	$7.45	$135.64
B	Laundromat	100	$2,481	$2,807.80	$2,527.02	$80.08	$90.63	$81.57	$46.02	$2,068	$2,340.40	$2,106.36	$66.73	$75.52	$67.97	$38.36	$1,654	$1,871.87	$1,684.68	$53.39	$60.42	$54.38	$30.68
		500	$2,802	$3,171.09	$2,853.98	$97.62	$110.48	$99.43	$51.98	$2,335	$2,642.57	$2,378.31	$81.35	$92.07	$82.86	$43.31	$1,868	$2,114.06	$1,902.65	$65.08	$73.65	$66.29	$34.65
		1,000	$3,290	$3,723.37	$3,351.03	$54.90	$62.13	$55.92	$61.03	$2,742	$3,103.18	$2,792.86	$45.75	$51.78	$46.60	$50.86	$2,193	$2,481.87	$2,233.68	$36.60	$41.42	$37.28	$40.68
		2,000	$3,839	$4,344.68	$3,910.21	$21.37	$24.18	$21.77	$71.21	$3,199	$3,620.38	$3,258.34	$17.80	$20.14	$18.13	$59.34	$2,559	$2,896.08	$2,606.47	$14.24	$16.12	$14.50	$47.47
		5,000	$4,480	$5,070.12	$4,563.10	$28.67	$32.45	$29.20	$83.10	$3,733	$4,224.72	$3,802.25	$23.89	$27.04	$24.33	$69.25	$2,987	$3,380.45	$3,042.41	$19.11	$21.63	$19.46	$55.41
		10,000	$5,913	$6,691.87	$6,022.69	$59.13	$66.92	$60.23	$109.69	$4,928	$5,577.13	$5,019.41	$49.28	$55.77	$50.19	$91.41	$3,942	$4,461.25	$4,015.12	$39.42	$44.61	$40.15	$73.12
B	Medical Office	1,000	$4,898	$5,543.18	$4,988.86	$16.47	$18.64	$16.78	$90.86	$4,082	$4,619.69	$4,157.72	$13.73	$15.54	$13.98	$75.72	$3,265	$3,695.07	$3,325.57	$10.98	$12.43	$11.18	$60.57
		5,000	$5,557	$6,288.98	$5,660.08	$20.06	$22.70	$20.43	$103.08	$4,631	$5,241.01	$4,716.91	$16.71	$18.91	$17.02	$85.91	$3,705	$4,193.03	$3,773.73	$13.37	$15.13	$13.62	$68.73
		10,000	$6,560	$7,424.10	$6,681.69	$11.30	$12.79	$11.51	$121.69	$5,466	$6,185.99	$5,567.39	$9.41	$10.65	$9.58	$101.39	$4,373	$4,949.02	$4,454.12	$7.53	$8.52	$7.67	$81.12
		20,000	$7,689	$8,701.81	$7,831.63	$4.40	$4.98	$4.48	$142.63	$6,408	$7,252.08	$6,526.87	$3.66	$4.14	$3.73	$118.87	$5,126	$5,801.21	$5,221.09	$2.93	$3.32	$2.98	$95.09
		50,000	$9,008	$10,194.55	$9,175.10	$5.90	$6.68	$6.01	$167.10	$7,506	$8,494.71	$7,645.24	$4.91	$5.56	$5.00	$139.24	$6,005	$6,795.99	$6,116.39	$3.93	$4.45	$4.00	$111.39
		100,000	$11,955	$13,529.74	$12,176.77	$11.96	$13.54	$12.18	$221.77	$9,963	$11,275.35	$10,147.81	$9.96	$11.27	$10.14	$184.81	$7,970	$9,019.83	$8,117.84	$7.97	$9.02	$8.12	$147.84
B	Offices	1,000	$3,096	$3,503.81	$3,153.43	$10.16	$11.50	$10.35	$57.43	$2,580	$2,919.84	$2,627.86	$8.46	$9.57	$8.62	$47.86	$2,064	$2,335.87	$2,102.29	$6.77	$7.66	$6.90	$38.29
		5,000	$3,503	$3,964.42	$3,567.98	$12.39	$14.02	$12.62	$64.98	$2,919	$3,303.50	$2,973.15	$10.33	$11.69	$10.52	$54.15	$2,335	$2,642.57	$2,378.31	$8.26	$9.35	$8.41	$43.31
		10,000	$4,122	$4,664.96	$4,198.46	$6.96	$7.88	$7.09	$76.46	$3,435	$3,887.47	$3,498.72	$5.80	$6.56	$5.91	$63.72	$2,748	$3,109.97	$2,798.98	$4.64	$5.25	$4.73	$50.98
		20,000	$4,818	$5,452.64	$4,907.37	$2.72	$3.08	$2.77	$89.37	$4,015	$4,543.87	$4,089.48	$2.26	$2.56	$2.30	$74.48	$3,212	$3,635.09	$3,271.58	$1.81	$2.05	$1.84	$59.58
		50,000	$5,633	$6,374.99	$5,737.49	$3.65	$4.13	$3.72	$104.49	$4,694	$5,312.30	$4,781.07	$3.04	$3.44	$3.10	$87.07	$3,755	$4,249.62	$3,824.66	$2.43	$2.75	$2.48	$69.66
		100,000	$7,455	$8,436.99	$7,593.29	$7.46	$8.44	$7.60	$138.29	$6,213	$7,031.39	$6,328.25	$6.21	$7.03	$6.33	$115.25	$4,970	$5,624.66	$5,062.19	$4.97	$5.62	$5.06	$92.19
B	Offices - Phased Permits	1,000	$3,096	$3,503.81	$3,153.43	$10.16	$11.50	$10.35	$57.43	$2,580	$2,919.84	$2,627.86	$8.46	$9.57	$8.62	$47.86	$2,064	$2,335.87	$2,102.29	$6.77	$7.66	$6.90	$38.29
		5,000	$3,503	$3,964.42	$3,567.98	$12.39	$14.02	$12.62	$64.98	$2,919	$3,303.50	$2,973.15	$10.33	$11.69	$10.52	$54.15	$2,335	$2,642.57	$2,378.31	$8.26	$9.35	$8.41	$43.31
		10,000	$4,122	$4,664.96	$4,198.46	$6.96	$7.88	$7.09	$76.46	$3,435	$3,887.47	$3,498.72	$5.80	$6.56	$5.91	$63.72	$2,748	$3,109.97	$2,798.98	$4.64	$5.25	$4.73	$50.98
		20,000	$4,818	$5,452.64	$4,907.37	$2.72	$3.08	$2.77	$89.37	$4,015	$4,543.87	$4,089.48	$2.26	$2.56	$2.30	$74.48	$3,212	$3,635.09	$3,271.58	$1.81	$2.05	$1.84	$59.58
		50,000	$5,633	$6,374.99	$5,737.49	$3.65	$4.13	$3.72	$104.49	$4,694	$5,312.30	$4,781.07	$3.04	$3.44	$3.10	$87.07	$3,755	$4,249.62	$3,824.66	$2.43	$2.75	$2.48	$69.66
		100,000	$7,455	$8,436.99	$7,593.29	$7.46	$8.44	$7.60	$138.29	$6,213	$7,031.39	$6,328.25	$6.21	$7.03	$6.33	$115.25	$4,970	$5,624.66	$5,062.19	$4.97	$5.62	$5.06	$92.19
B	Public Buildings - Fire Stations	1,000	$2,443	$2,764.80	$2,488.32	$8.01	$9.07	$8.16	$45.32	$2,036	$2,304.19	$2,073.77	$6.67	$7.55	$6.79	$37.77	$1,628	$1,842.44	$1,658.20	$5.34	$6.04	$5.44	$30.20
		5,000	$2,763	$3,126.95	$2,814.25	$9.76	$11.05	$9.94	$51.25	$2,303	$2,606.36	$2,345.72	$8.13	$9.20	$8.28	$42.72	$1,842	$2,084.63	$1,876.17	$6.50	$7.36	$6.62	$34.17
		10,000	$3,251	$3,679.23	$3,311.31	$5.48	$6.20	$5.58	$60.31	$2,709	$3,065.84	$2,759.25	$4.57	$5.17	$4.65	$50.25	$2,167	$2,452.44	$2,207.20	$3.66	$4.14	$3.73	$40.20
		20,000	$3,799	$4,299.41	$3,869.47	$2.14	$2.42	$2.18	$70.47	$3,166	$3,583.03	$3,224.73	$1.78	$2.01	$1.81	$58.73	$2,533	$2,866.65	$2,579.99	$1.42	$1.61	$1.45	$46.99
		50,000	$4,440	$5,024.85	$4,522.36	$2.88	$3.26	$2.93	$82.36	$3,700	$4,187.37	$3,768.64	$2.40	$2.72	$2.44	$68.64	$2,960	$3,349.90	$3,014.91	$1.92	$2.17	$1.96	$54.91
		100,000	$5,880	$6,654.53	$5,989.07	$5.88	$6.65	$5.99	$109.07	$4,900	$5,545.44	$4,990.90	$4.90	$5.55	$4.99	$90.90	$3,920	$4,436.35	$3,992.72	$3.92	$4.44	$3.99	$72.72
B	Public Buildings - Miscellaneous	1,000	$2,420	$2,738.77	$2,464.89	$7.92	$8.96	$8.07	$44.89	$2,017	$2,282.68	$2,054.42	$6.60	$7.47	$6.72	$37.42	$1,613	$1,825.47	$1,642.92	$5.28	$5.98	$5.38	$29.92
		5,000	$2,737	$3,097.52	$2,787.77	$9.66	$10.93	$9.84	$50.77	$2,281	$2,581.46	$2,323.31	$8.05	$9.11	$8.20	$42.31	$1,824	$2,064.26	$1,857.84	$6.44	$7.29	$6.56	$33.84
		10,000	$3,220	$3,644.15	$3,279.73	$5.44	$6.16	$5.54	$59.73	$2,683	$3,036.41	$2,732.77	$4.53	$5.13	$4.61	$49.77	$2,146	$2,428.68	$2,185.81	$3.62	$4.10	$3.69	$39.81
		20,000	$3,763	$4,258.67	$3,832.80	$2.12	$2.40	$2.16	$69.80	$3,136	$3,549.08	$3,194.17	$1.76	$1.99	$1.79	$58.17	$2,509	$2,839.49	$2,555.54	$1.41	$1.60	$1.44	$46.54
		50,000	$4,398	$4,977.31	$4,479.58	$2.84	$3.21	$2.89	$81.58	$3,665	$4,147.76	$3,732.99	$2.37	$2.68	$2.41	$67.99	$2,932	$3,318.21	$2,986.39	$1.90	$2.15	$1.94	$54.39
		100,000	$5,820	$6,586.62	$5,927.96	$5.82	$6.59	$5.93	$107.96	$4,850	$5,488.85	$4,939.97	$4.85	$5.49	$4.94	$89.97	$3,880	$4,391.08	$3,951.97	$3.88	$4.39	$3.95	$71.97
B	Public Building - Office	1,000	$3,025	$3,423.46	$3,081.11	$9.90	$11.20	$10.08	$56.11	$2,521	$2,853.07	$2,567.76	$8.25	$9.34	$8.40	$46.76	$2,017	$2,282.68	$2,054.42	$6.60	$7.47	$6.72	$37.42
		5,000	$3,421	$3,871.62	$3,484.46	$12.08	$13.67	$12.30	$63.46	$2,851	$3,226.54	$2,903.89	$10.06	$11.39	$10.25	$52.89	$2,281	$2,581.46	$2,323.31	$8.05	$9.11	$8.20	$42.31
		10,000	$4,025	$4,555.18	$4,099.66	$6.80	$7.70	$6.93	$74.66	$3,354	$3,795.80	$3,416.22	$5.66	$6.41	$5.76	$62.22	$2,683	$3,036.41	$2,732.77	$4.53	$5.13	$4.61	$49.77
		20,000	$4,704	$5,323.62	$4,791.26	$2.65	$3.00	$2.70	$87.26	$3,920	$4,436.35	$3,992.72	$2.20	$2.49	$2.24	$72.72	$3,136	$3,549.08	$3,194.17	$1.76	$1.99	$1.79	$58.17
		50,000	$5,498	$6,222.21	$5,599.99	$3.56	$4.03	$3.63	$101.99	$4,581	$5,184.42	$4,665.98	$2.96	$3.35	$3.01	$84.98	$3,665	$4,147.76	$3,732.99	$2.37	$2.68	$2.41	$67.99
		100,000	$7,275	$8,233.28	$7,409.95	$7.28	$8.24	$7.42	$134.95	$6,063	$6,861.63	$6,175.47	$6.06	$6.86	$6.17	$112.47	$4,850	$5,488.85	$4,939.97	$4.85	$5.49	$4.94	$89.97
B	Public Buildings - Police	1,000	$2,534	$2,867.78	$2,581.01	$8.33	$9.43	$8.48	$47.01	$2,112	$2,390.20	$2,151.18	$6.94	$7.85	$7.07	$39.18	$1,689	$1,911.48	$1,720.33	$5.55	$6.28	$5.65	$31.33
		5,000	$2,867	$3,244.65	$2,920.18	$10.14	$11.48	$10.33	$53.18	$2,390	$2,704.82	$2,434.33	$8.45	$9.56	$8.61	$44.33	$1,912	$2,163.85	$1,947.47	$6.76	$7.65	$6.89	$35.47
		10,000	$3,374	$3,818.43	$3,436.59	$5.71	$6.46	$5.82	$62.59	$2,812	$3,182.40	$2,864.16	$4.76	$5.39	$4.85	$52.16	$2,250	$2,546.38	$2,291.74	$3.81	$4.31	$3.88	$41.74
		20,000	$3,946	$4,465.78	$4,019.20	$2.23	$2.52	$2.27	$73.20	$3,288	$3,721.10	$3,348.99	$1.86	$2.11	$1.89	$60.99	$2,630	$2,976.43	$2,678.79	$1.49	$1.69	$1.52	$48.79
		50,000	$4,614	$5,221.77	$4,699.59	$2.99	$3.38	$3.05	$85.59	$3,845	$4,351.47	$3,916.33	$2.49	$2.82	$2.54	$71.33	$3,076	$3,481.18	$3,133.06	$1.99	$2.25	$2.03	$57.06
		100,000	$6,108	$6,912.56	$6,221.30	$6.11	$6.91	$6.22	$113.30	$5,090	$5,760.47	$5,184.42	$5.09	$5.76	$5.18	$94.42	$4,072	$4,608.37	$4,147.54	$4.07	$4.61	$4.15	$75.54
B	Public Buildings - Recreation	1,000	$2,420	$2,738.77	$2,464.89	$7.92	$8.96	$8.07	$44.89	$2,017	$2,282.68	$2,054.42	$6.60	$7.47	$6.72	$37.42	$1,613	$1,825.47	$1,642.92	$5.28	$5.98	$5.38	$29.92
		5,000	$2,737	$3,097.52	$2,787.77	$9.66	$10.93	$9.84	$50.77	$2,281	$2,581.46	$2,323.31	$8.05	$9.11	$8.20	$42.31	$1,824	$2,064.26	$1,857.84	$6.44	$7.29	$6.56	$33.84
		10,000	$3,220	$3,644.15	$3,279.73	$5.44	$6.16	$5.54	$59.73	$2,683	$3,036.41	$2,732.77	$4.53	$5.13	$4.61	$49.77	$2,146	$2,428.68	$2,185.81	$3.62	$4.10	$3.69	$39.81
		20,000	$3,763	$4,258.67	$3,832.80	$2.12	$2.40	$2.16	$69.80	$3,136	$3,549.08	$3,194.17	$1.76	$1.99	$1.79	$58.17	$2,509	$2,839.49	$2,555.54	$1.41	$1.60	$1.44	$46.54
		50,000	$4,398	$4,977.31	$4,479.58	$2.84	$3.21	$2.89	$81.58	$3,665	$4,147.76	$3,732.99	$2.37	$2.68	$2.41	$67.99	$2,932	$3,318.21	$2,986.39	$1.90	$2.15	$1.94	$54.39
		100,000	$5,820	$6,586.62	$5,927.96	$5.82	$6.59	$5.93	$107.96	$4,850	$5,488.85	$4,939.97	$4.85	$5.49	$4.94	$89.97	$3,880	$4,391.08	$3,951.97	$3.88	$4.39	$3.95	$71.97
E-1	Schools	500	$2,042	$2,310.98	$2,079.88	$13.21	$14.95	$13.46	$37.88	$1,702	$1,926.19	$1,733.57	$11.01	$12.46	$11.21	$31.57	$1,362	$1,541.41	$1,387.27	$8.80	$9.96	$8.96	$25.27
		2,500	$2,306	$2,609.75	$2,348.78	$16.10	$18.22	$16.40	$42.78	$1,922	$2,175.17	$1,957.65	$13.42	$15.19	$13.67	$35.65	$1,538	$1,740.59	$1,566.53	$10.74	$12.15	$10.94	$28.53
		5,000	$2,709	$3,065.84	$2,759.25	$9.06	$10.25	$9.23	$50.25	$2,258	$2,555.43	$2,299.89	$7.55	$8.54	$7.69	$41.89	$1,806	$2,043.89	$1,839.50	$6.04	$6.84	$6.15	$33.50
		10,000	$3,162	$3,578.51	$3,220.66	$3.52	$3.98	$3.59	$58.66	$2,635	$2,982.09	$2,683.88	$2.93	$3.32	$2.98	$48.88	$2,108	$2,385.67	$2,147.10	$2.35	$2.66	$2.39	$39.10
		25,000	$3,690	$4,176.06	$3,758.45	$4.73	$5.35	$4.82	$68.45	$3,075	$3,480.05	$3,132.04	$3.94	$4.46	$4.01	$57.04	$2,460	$2,784.04	$2,505.63	$3.15	$3.56	$3.21	$45.63
		50,000	$4,872	$5,513.75	$4,962.38	$9.74	$11.02	$9.92	$90.38	$4,060	$4,594.79	$4,135.31	$8.12	$9.19	$8.27	$75.31	$3,248	$3,675.83	$3,308.25	$6.50	$7.36	$6.62	$60.25
E-2	Preschool / School	500	$2,042	$2,310.98	$2,079.88	$13.21	$14.95	$13.46	$37.88	$1,702	$1,926.19	$1,733.57	$11.01	$12.46	$11.21	$31.57	$1,362	$1,541.41	$1,387.27	$8.80	$9.96	$8.96	$25.27

EXHIBIT A

CITY OF COVINA
CONSOLIDATED SCHEDULE OF NEW CONSTRUCTION FEES (P/C PROCESSING AND INSPECTION COMBINED)
(All Construction Types)

NEW CONSTRUCTION

UBC Class	Occupancy Type	Project Size Threshold	Types IA (I & IIFR) Current Fee	Full Cost using % change needed	Suggested Base Fee	Current Fee for Each Additional 100 s.f.	Full Cost using % change needed	Suggested Fee for Each Additional 100 s.f.	Difference in base fee	Types IB, IIA, IIIA, VA ~~(II & III & V-1HR)~~ Current Fee	Full Cost using % change needed	Suggested Base Fee	Current Fee for Each Additional 100 s.f.	Full Cost using ICC per sq ft	Suggested Fee for Each Additional 100 s.f.	Difference in base fee	Types IIB, IIIB, IV, VB ~~(II, III, IV, V-N)~~ Current Fee	Full cost using % change needed	Suggested Base Fee	Current Fee for Each Additional 100 s.f.	Full Cost using ICC per sq ft	Suggested Fee for Each Additional 100 s.f.	Difference in base fee
		2,500	$2,306	$2,609.75	$2,348.78	$16.10	$18.22	$16.40	$42.78	$1,922	$2,175.17	$1,957.65	$13.42	$15.19	$13.67	$35.65	$1,538	$1,740.59	$1,566.53	$10.74	$12.15	$10.94	$28.53
		5,000	$2,709	$3,065.84	$2,759.25	$9.06	$10.25	$9.23	$50.25	$2,258	$2,555.43	$2,299.89	$7.55	$8.54	$7.69	$41.89	$1,806	$2,043.89	$1,839.50	$6.04	$6.84	$6.15	$33.50
		10,000	$3,162	$3,578.51	$3,220.66	$3.52	$3.98	$3.59	$58.66	$2,635	$2,982.09	$2,683.88	$2.93	$3.32	$2.98	$48.88	$2,108	$2,385.67	$2,147.10	$2.35	$2.66	$2.39	$39.10
		25,000	$3,690	$4,176.06	$3,758.45	$4.73	$5.35	$4.82	$68.45	$3,075	$3,480.05	$3,132.04	$3.94	$4.46	$4.01	$57.04	$2,460	$2,784.04	$2,505.63	$3.15	$3.56	$3.21	$45.63
		50,000	$4,872	$5,513.75	$4,962.38	$9.74	$11.02	$9.92	$90.38	$4,060	$4,594.79	$4,135.31	$8.12	$9.19	$8.27	$75.31	$3,248	$3,675.83	$3,308.25	$6.50	$7.36	$6.62	$60.25
E-3	Daycare	100	$1,871	$2,117.45	$1,905.71	$60.05	$67.96	$61.16	$34.71	$1,559	$1,764.36	$1,587.92	$50.05	$56.64	$50.98	$28.92	$1,247	$1,411.26	$1,270.13	$40.04	$45.31	$40.78	$23.13
		500	$2,111	$2,389.07	$2,150.16	$73.22	$82.86	$74.58	$39.16	$1,759	$1,990.70	$1,791.63	$61.02	$69.06	$62.15	$32.63	$1,407	$1,592.33	$1,433.10	$48.82	$55.25	$49.73	$26.10
		1,000	$2,477	$2,803.28	$2,522.95	$41.18	$46.60	$41.94	$45.95	$2,064	$2,335.87	$2,102.29	$34.32	$38.84	$34.96	$38.29	$1,651	$1,868.47	$1,681.63	$27.46	$31.08	$27.97	$30.63
		2,000	$2,889	$3,269.55	$2,942.59	$16.00	$18.11	$16.30	$53.59	$2,407	$2,724.06	$2,451.65	$13.34	$15.10	$13.59	$44.65	$1,926	$2,179.70	$1,961.73	$10.67	$12.08	$10.87	$35.73
		5,000	$3,369	$3,812.77	$3,431.50	$21.52	$24.35	$21.92	$62.50	$2,808	$3,177.88	$2,860.09	$17.93	$20.29	$18.26	$52.09	$2,246	$2,541.85	$2,287.66	$14.34	$16.23	$14.61	$41.66
		10,000	$4,445	$5,030.51	$4,527.46	$44.45	$50.31	$45.27	$82.46	$3,704	$4,191.90	$3,772.71	$37.04	$41.92	$37.73	$68.71	$2,963	$3,353.29	$3,017.96	$29.63	$33.53	$30.18	$54.96
F-1	Industrial	1,000	$765	$865.77	$779.19	$2.00	$2.26	$2.04	$14.19	$638	$722.04	$649.83	$1.66	$1.88	$1.69	$11.83	$510	$577.18	$519.46	$1.33	$1.51	$1.35	$9.46
		5,000	$845	$956.31	$860.67	$2.45	$2.77	$2.50	$15.67	$704	$796.73	$717.06	$2.04	$2.31	$2.08	$13.06	$564	$638.29	$574.46	$1.63	$1.84	$1.66	$10.46
		10,000	$968	$1,095.51	$985.96	$1.37	$1.55	$1.40	$17.96	$806	$912.17	$820.95	$1.14	$1.29	$1.16	$14.95	$645	$729.96	$656.96	$0.91	$1.03	$0.93	$11.96
		20,000	$1,104	$1,249.42	$1,124.48	$0.54	$0.61	$0.55	$20.48	$920	$1,041.18	$937.07	$0.45	$0.51	$0.46	$17.07	$736	$832.95	$749.65	$0.36	$0.41	$0.37	$13.65
		50,000	$1,268	$1,435.02	$1,291.52	$0.71	$0.80	$0.72	$23.52	$1,056	$1,195.10	$1,075.59	$0.59	$0.67	$0.60	$19.59	$845	$956.31	$860.67	$0.47	$0.53	$0.48	$15.67
		100,000	$1,620	$1,833.39	$1,650.05	$1.62	$1.83	$1.65	$30.05	$1,350	$1,527.83	$1,375.04	$1.35	$1.53	$1.38	$25.04	$1,080	$1,222.26	$1,100.03	$1.08	$1.22	$1.10	$20.03
F-1	Manufacturing	2,000	$2,797	$3,165.43	$2,848.88	$4.62	$5.23	$4.71	$51.88	$2,331	$2,638.04	$2,374.24	$3.85	$4.36	$3.92	$43.24	$1,865	$2,110.66	$1,899.60	$3.08	$3.49	$3.14	$34.60
		10,000	$3,167	$3,584.16	$3,225.75	$5.65	$6.39	$5.75	$58.75	$2,639	$2,986.62	$2,687.95	$4.71	$5.33	$4.80	$48.95	$2,111	$2,389.07	$2,150.16	$3.77	$4.27	$3.84	$39.16
		20,000	$3,732	$4,223.59	$3,801.23	$3.16	$3.58	$3.22	$69.23	$3,110	$3,519.66	$3,167.69	$2.63	$2.98	$2.68	$57.69	$2,488	$2,815.73	$2,534.15	$2.10	$2.38	$2.14	$46.15
		40,000	$4,363	$4,937.70	$4,443.93	$1.23	$1.39	$1.25	$80.93	$3,636	$4,114.94	$3,703.45	$1.02	$1.15	$1.04	$67.45	$2,909	$3,292.18	$2,962.96	$0.82	$0.93	$0.84	$53.96
		100,000	$5,100	$5,771.78	$5,194.61	$1.67	$1.89	$1.70	$94.61	$4,250	$4,809.82	$4,328.84	$1.39	$1.57	$1.42	$78.84	$3,400	$3,847.86	$3,463.07	$1.11	$1.26	$1.13	$63.07
		200,000	$6,768	$7,659.50	$6,893.55	$3.38	$3.83	$3.44	$125.55	$5,640	$6,382.91	$5,744.62	$2.82	$3.19	$2.87	$104.62	$4,512	$5,106.33	$4,595.70	$2.26	$2.56	$2.30	$83.70
F-1	Woodworking	500	$2,481	$2,807.80	$2,527.02	$16.01	$18.12	$16.31	$46.02	$2,068	$2,340.40	$2,106.36	$13.34	$15.10	$13.59	$38.36	$1,654	$1,871.87	$1,684.68	$10.68	$12.09	$10.88	$30.68
		2,500	$2,802	$3,171.09	$2,853.98	$19.52	$22.09	$19.88	$51.98	$2,335	$2,642.57	$2,378.31	$16.26	$18.40	$16.56	$43.31	$1,868	$2,114.06	$1,902.65	$13.01	$14.72	$13.25	$34.65
		5,000	$3,290	$3,723.37	$3,351.03	$10.98	$12.43	$11.18	$61.03	$2,741	$3,102.05	$2,791.85	$9.15	$10.36	$9.32	$50.85	$2,193	$2,481.87	$2,233.68	$7.32	$8.28	$7.46	$40.68
		10,000	$3,839	$4,344.68	$3,910.21	$4.29	$4.86	$4.37	$71.21	$3,199	$3,620.38	$3,258.34	$3.57	$4.04	$3.64	$59.34	$2,559	$2,896.08	$2,606.47	$2.86	$3.24	$2.91	$47.47
		25,000	$4,481	$5,071.25	$4,564.12	$5.72	$6.47	$5.83	$83.12	$3,734	$4,225.85	$3,803.27	$4.76	$5.39	$4.85	$69.27	$2,988	$3,381.59	$3,043.43	$3.81	$4.31	$3.88	$55.43
		50,000	$5,910	$6,688.48	$6,019.63	$11.82	$13.38	$12.04	$109.63	$4,925	$5,573.73	$5,016.36	$9.85	$11.15	$10.03	$91.36	$3,940	$4,458.99	$4,013.09	$7.88	$8.92	$8.03	$73.09
F-2	Industrial / Manufacturing	2,000	$3,060	$3,463.07	$3,116.76	$5.08	$5.75	$5.17	$56.76	$2,550	$2,885.89	$2,597.30	$4.23	$4.79	$4.31	$47.30	$2,040	$2,308.71	$2,077.84	$3.39	$3.84	$3.45	$37.84
		10,000	$3,467	$3,923.68	$3,531.31	$6.20	$7.02	$6.32	$64.31	$2,889	$3,269.55	$2,942.59	$5.17	$5.85	$5.27	$53.59	$2,311	$2,615.41	$2,353.87	$4.14	$4.69	$4.22	$42.87
		20,000	$4,087	$4,625.35	$4,162.81	$3.49	$3.95	$3.55	$75.81	$3,406	$3,854.65	$3,469.18	$2.91	$3.29	$2.96	$63.18	$2,725	$3,083.94	$2,775.55	$2.33	$2.64	$2.37	$50.55
		40,000	$4,786	$5,416.42	$4,874.78	$1.34	$1.52	$1.36	$88.78	$3,988	$4,513.31	$4,061.98	$1.12	$1.27	$1.14	$73.98	$3,190	$3,610.19	$3,249.17	$0.90	$1.02	$0.92	$59.17
		100,000	$5,592	$6,328.59	$5,695.73	$1.82	$2.06	$1.85	$103.73	$4,660	$5,273.83	$4,746.44	$1.52	$1.72	$1.55	$86.44	$3,728	$4,219.06	$3,797.15	$1.22	$1.38	$1.24	$69.15
		200,000	$7,416	$8,392.85	$7,553.57	$3.71	$4.20	$3.78	$137.57	$6,180	$6,994.04	$6,294.64	$3.09	$3.50	$3.15	$114.64	$4,944	$5,595.24	$5,035.71	$2.47	$2.80	$2.52	$91.71
H-2	Moderate Explosion Hazards	200	$2,214	$2,505.63	$2,255.07	$36.03	$40.78	$36.70	$41.07	$1,845	$2,088.03	$1,879.22	$30.03	$33.99	$30.59	$34.22	$1,476	$1,670.42	$1,503.38	$24.02	$27.18	$24.47	$27.38
		1,000	$2,502	$2,831.57	$2,548.41	$43.93	$49.72	$44.74	$46.41	$2,085	$2,359.64	$2,123.68	$36.61	$41.43	$37.29	$38.68	$1,668	$1,887.71	$1,698.94	$29.29	$33.15	$29.83	$30.94
		2,000	$2,941	$3,328.40	$2,995.56	$24.72	$27.98	$25.18	$54.56	$2,451	$2,773.85	$2,496.47	$20.60	$23.31	$20.98	$45.47	$1,961	$2,219.31	$1,997.38	$16.48	$18.65	$16.79	$36.38
		4,000	$3,436	$3,888.60	$3,499.74	$9.60	$10.86	$9.78	$63.74	$2,863	$3,240.12	$2,916.11	$8.00	$9.05	$8.15	$53.11	$2,291	$2,592.78	$2,333.50	$6.40	$7.24	$6.52	$42.50
		10,000	$4,012	$4,540.47	$4,086.42	$12.90	$14.60	$13.14	$74.42	$3,343	$3,783.35	$3,405.01	$10.75	$12.17	$10.95	$62.01	$2,674	$3,026.23	$2,723.60	$8.60	$9.73	$8.76	$49.60
		20,000	$5,302	$6,000.39	$5,400.35	$26.51	$30.00	$27.00	$98.35	$4,418	$4,999.95	$4,499.95	$22.09	$25.00	$22.50	$81.95	$3,534	$3,999.51	$3,599.56	$17.67	$20.00	$18.00	$65.56
H-4	Repair Garage	1,000	$2,385	$2,699.16	$2,429.24	$7.80	$8.83	$7.94	$44.24	$1,988	$2,249.86	$2,024.88	$6.50	$7.36	$6.62	$36.88	$1,590	$1,799.44	$1,619.49	$5.20	$5.88	$5.30	$29.49
		5,000	$2,698	$3,053.39	$2,748.05	$9.53	$10.79	$9.71	$50.05	$2,248	$2,544.11	$2,289.70	$7.94	$8.99	$8.09	$41.70	$1,798	$2,034.84	$1,831.35	$6.35	$7.19	$6.47	$33.35
		10,000	$3,174	$3,592.09	$3,232.88	$5.34	$6.04	$5.44	$58.88	$2,645	$2,993.41	$2,694.07	$4.45	$5.04	$4.53	$49.07	$2,116	$2,394.72	$2,155.25	$3.56	$4.03	$3.63	$39.25
		20,000	$3,708	$4,196.43	$3,776.78	$2.08	$2.35	$2.12	$68.78	$3,090	$3,497.02	$3,147.32	$1.73	$1.96	$1.76	$57.32	$2,472	$2,797.62	$2,517.86	$1.39	$1.57	$1.42	$45.86
		50,000	$4,332	$4,902.62	$4,412.36	$2.81	$3.18	$2.86	$80.36	$3,610	$4,085.52	$3,676.97	$2.34	$2.65	$2.38	$66.97	$2,888	$3,268.41	$2,941.57	$1.87	$2.12	$1.90	$53.57
		100,000	$5,736	$6,491.56	$5,842.40	$5.74	$6.50	$5.85	$106.40	$4,780	$5,409.63	$4,868.67	$4.78	$5.41	$4.87	$88.67	$3,824	$4,327.71	$3,894.94	$3.82	$4.32	$3.89	$70.94
I-1.1	Nursery - Full-Time (5+)	200	$2,267	$2,565.61	$2,309.05	$36.29	$41.07	$36.96	$42.05	$1,889	$2,137.82	$1,924.04	$30.24	$34.22	$30.80	$35.04	$1,511	$1,710.03	$1,539.03	$24.19	$27.38	$24.64	$28.03
		1,000	$2,557	$2,893.81	$2,604.43	$44.22	$50.04	$45.04	$47.43	$2,131	$2,411.70	$2,170.53	$36.85	$41.70	$37.53	$39.53	$1,705	$1,929.59	$1,736.63	$29.48	$33.36	$30.03	$31.63
		2,000	$2,999	$3,394.04	$3,054.63	$24.87	$28.15	$25.33	$55.63	$2,500	$2,829.31	$2,546.38	$20.73	$23.46	$21.11	$46.38	$2,000	$2,263.44	$2,037.10	$16.58	$18.76	$16.89	$37.10
		4,000	$3,497	$3,957.63	$3,561.87	$9.67	$10.94	$9.85	$64.87	$2,914	$3,297.84	$2,968.05	$8.06	$9.12	$8.21	$54.05	$2,331	$2,638.04	$2,374.24	$6.45	$7.30	$6.57	$43.24
		10,000	$4,077	$4,614.03	$4,152.63	$12.99	$14.70	$13.23	$75.63	$3,398	$3,845.59	$3,461.03	$10.83	$12.26	$11.03	$63.03	$2,718	$3,076.02	$2,768.42	$8.66	$9.80	$8.82	$50.42
		20,000	$5,376	$6,084.14	$5,475.73	$26.88	$30.42	$27.38	$99.73	$4,480	$5,070.12	$4,563.10	$22.40	$25.35	$22.82	$83.10	$3,584	$4,056.09	$3,650.48	$17.92	$20.28	$18.25	$66.48
I-1.2	Health Care Centers	1,000	$3,411	$3,860.30	$3,474.27	$11.25	$12.73	$11.46	$63.27	$2,842	$3,216.35	$2,894.72	$9.38	$10.62	$9.55	$52.72	$2,274	$2,573.54	$2,316.18	$7.50	$8.49	$7.64	$42.18
		5,000	$3,861	$4,369.58	$3,932.62	$13.74	$15.55	$13.99	$71.62	$3,218	$3,641.88	$3,277.69	$11.45	$12.96	$11.66	$59.69	$2,574	$2,913.05	$2,621.75	$9.16	$10.37	$9.33	$47.75
		10,000	$4,548	$5,147.07	$4,632.37	$7.71	$8.73	$7.85	$84.37	$3,790	$4,289.23	$3,860.30	$6.43	$7.28	$6.55	$70.30	$3,032	$3,431.38	$3,088.24	$5.14	$5.82	$5.24	$56.24
		20,000	$5,319	$6,019.63	$5,417.67	$3.00	$3.40	$3.06	$98.67	$4,433	$5,016.93	$4,515.23	$2.50	$2.83	$2.55	$82.23	$3,546	$4,013.09	$3,611.78	$2.00	$2.26	$2.04	$65.78
		50,000	$6,218	$7,037.05	$6,333.34	$4.04	$4.57	$4.11	$115.34	$5,181	$5,863.45	$5,277.11	$3.36	$3.80	$3.42	$96.11	$4,145	$4,690.99	$4,221.89	$2.69	$3.04	$2.74	$76.89
		100,000	$8,235	$9,319.73	$8,387.76	$8.24	$9.33	$8.39	$152.76	$6,863	$7,767.01	$6,990.31	$6.86	$7.76	$6.99	$127.31	$5,490	$6,213.16	$5,591.84	$5.49	$6.21	$5.59	$101.84
I-2	Nursing Home / Assisted Living	1,000	$3,482	$3,940.66	$3,546.59	$11.51	$13.03	$11.72	$64.59	$2,902	$3,284.26	$2,955.83	$9.59	$10.85	$9.77	$53.83	$2,322	$2,627.86	$2,365.07	$7.67	$8.68	$7.81	$43.07
		5,000	$3,943	$4,462.38	$4,016.14	$14.03	$15.88	$14.29	$73.14	$3,286	$3,718.84	$3,346.96	$11.69	$13.23	$11.91	$60.96	$2,629	$2,975.30	$2,677.77	$9.35	$10.58	$9.52	$48.77
		10,000	$4,644	$5,255.72	$4,730.15	$7.89	$8.93	$8.04	$86.15	$3,870	$4,379.77	$3,941.79	$6.58	$7.45	$6.70	$71.79	$3,096	$3,503.81	$3,153.43	$5.26	$5.95	$5.36	$57.43
		20,000	$5,433	$6,148.65	$5,533.78	$3.07	$3.47	$3.13	$100.78	$4,528	$5,124.44	$4,611.99	$2.55	$2.89	$2.60	$83.99	$3,622	$4,099.10	$3,689.19	$2.04	$2.31	$2.08	$67.19
		50,000	$6,353	$7,189.83	$6,470.85	$4.13	$4.67	$4.21	$117.85	$5,294	$5,991.34	$5,392.20	$3.44	$3.89	$3.50	$98.20	$4,235	$4,792.84	$4,313.56	$2.75	$3.11	$2.80	$78.56
		100,000	$8,415	$9,523.44	$8,571.10	$8.42	$9.53	$8.58	$156.10	$7,013	$7,936.77	$7,143.09	$7.01	$7.93	$7.14	$130.09	$5,610	$6,348.96	$5,714.07	$5.61	$6.35	$5.71	$104.07
M	Department Stores	1,000	$2,202	$2,492.05	$2,242.85	$7.17	$8.11	$7.30	$40.85	$1,835	$2,076.71	$1,869.04	$5.98	$6.77	$6.09	$34.04	$1,468	$1,661.37	$1,495.23	$4.78	$5.41	$4.87	$27.23

EXHIBIT A

CITY OF COVINA
CONSOLIDATED SCHEDULE OF NEW CONSTRUCTION FEES (P/C PROCESSING AND INSPECTION COMBINED)
(All Construction Types)

NEW CONSTRUCTION

UBC Class	Occupancy Type	Project Size Threshold	Types IA (I & IIFR) Current Fee	Full Cost using % change needed	Suggested Base Fee	Current Fee for Each Additional 100 s.f.	Full Cost using % change needed	Suggested Fee for Each Additional 100 s.f.	Difference in base fee	Types IB, IIA, IIIA, VA ~~(II & III & V-1HR)~~ Current Fee	Full Cost using % change needed	Suggested Base Fee	Current Fee for Each Additional 100 s.f.	Full Cost using ICC per sq ft	Suggested Fee for Each Additional 100 s.f.	Difference in base fee	Types IIB, IIIB, IV, VB ~~(II, III, IV, V-N)~~ Current Fee	Full cost using % change needed	Suggested Base Fee	Current Fee for Each Additional 100 s.f.	Full Cost using ICC per sq ft	Suggested Fee for Each Additional 100 s.f.	Difference in base fee
		5,000	$2,489	$2,816.86	$2,535.17	$8.72	$9.87	$8.88	$46.17	$2,075	$2,348.32	$2,113.49	$7.27	$8.23	$7.40	$38.49	$1,660	$1,878.66	$1,690.79	$5.82	$6.59	$5.93	$30.79
		10,000	$2,926	$3,311.42	$2,980.28	$4.92	$5.57	$5.01	$54.28	$2,438	$2,759.14	$2,483.23	$4.10	$4.64	$4.18	$45.23	$1,950	$2,206.86	$1,986.17	$3.28	$3.71	$3.34	$36.17
		20,000	$3,418	$3,868.23	$3,481.40	$1.91	$2.16	$1.95	$63.40	$2,848	$3,223.15	$2,900.83	$1.59	$1.80	$1.62	$52.83	$2,278	$2,578.06	$2,320.26	$1.27	$1.44	$1.29	$42.26
		50,000	$3,990	$4,515.57	$4,064.01	$2.56	$2.90	$2.61	$74.01	$3,325	$3,762.98	$3,386.68	$2.13	$2.41	$2.17	$61.68	$2,660	$3,010.38	$2,709.34	$1.70	$1.92	$1.73	$49.34
		100,000	$5,268	$5,961.91	$5,365.72	$5.27	$5.96	$5.37	$97.72	$4,390	$4,968.26	$4,471.43	$4.39	$4.97	$4.47	$81.43	$3,512	$3,974.61	$3,577.15	$3.51	$3.97	$3.58	$65.15
M	Shopping centers, Markets (Retail)	1,000	$2,608	$2,951.53	$2,656.38	$8.68	$9.82	$8.84	$48.38	$2,173	$2,459.23	$2,213.31	$7.23	$8.18	$7.36	$40.31	$1,738	$1,966.93	$1,770.24	$5.78	$6.54	$5.89	$32.24
		5,000	$2,955	$3,344.24	$3,009.82	$10.57	$11.96	$10.77	$54.82	$2,462	$2,786.30	$2,507.67	$8.81	$9.97	$8.97	$45.67	$1,970	$2,229.49	$2,006.54	$7.05	$7.98	$7.18	$36.54
		10,000	$3,483	$3,941.79	$3,547.61	$5.95	$6.73	$6.06	$64.61	$2,902	$3,284.26	$2,955.83	$4.96	$5.61	$5.05	$53.83	$2,322	$2,627.86	$2,365.07	$3.97	$4.49	$4.04	$43.07
		20,000	$4,078	$4,615.16	$4,153.65	$2.31	$2.61	$2.35	$75.65	$3,398	$3,845.59	$3,461.03	$1.92	$2.17	$1.96	$63.03	$2,719	$3,077.15	$2,769.44	$1.54	$1.74	$1.57	$50.44
		50,000	$4,770	$5,398.32	$4,858.48	$3.12	$3.53	$3.18	$88.48	$3,975	$4,498.60	$4,048.74	$2.60	$2.94	$2.65	$73.74	$3,180	$3,598.88	$3,238.99	$2.08	$2.35	$2.12	$58.99
		100,000	$6,330	$7,163.80	$6,447.42	$6.33	$7.16	$6.45	$117.42	$5,275	$5,969.84	$5,372.85	$5.27	$5.96	$5.37	$97.85	$4,220	$4,775.87	$4,298.28	$4.22	$4.78	$4.30	$78.28
R-1	Apartment Buildings	1,000	$3,358	$3,800.32	$3,420.29	$11.21	$12.69	$11.42	$62.29	$2,798	$3,166.56	$2,849.90	$9.35	$10.58	$9.52	$51.90	$2,239	$2,533.93	$2,280.53	$7.48	$8.47	$7.62	$41.53
		5,000	$3,806	$4,307.34	$3,876.60	$13.66	$15.46	$13.91	$70.60	$3,172	$3,589.82	$3,230.84	$11.38	$12.88	$11.59	$58.84	$2,538	$2,872.31	$2,585.08	$9.10	$10.30	$9.27	$47.08
		10,000	$4,489	$5,080.30	$4,572.27	$7.69	$8.70	$7.83	$83.27	$3,741	$4,233.77	$3,810.40	$6.41	$7.25	$6.53	$69.40	$2,993	$3,387.24	$3,048.52	$5.13	$5.81	$5.23	$55.52
		20,000	$5,258	$5,950.60	$5,355.54	$2.99	$3.38	$3.05	$97.54	$4,382	$4,959.21	$4,463.29	$2.49	$2.82	$2.54	$81.29	$3,506	$3,967.82	$3,571.04	$1.99	$2.25	$2.03	$65.04
		50,000	$6,156	$6,966.88	$6,270.19	$4.01	$4.54	$4.08	$114.19	$5,130	$5,805.74	$5,225.16	$3.34	$3.78	$3.40	$95.16	$4,104	$4,644.59	$4,180.13	$2.67	$3.02	$2.72	$76.13
		100,000	$8,160	$9,234.85	$8,311.37	$8.16	$9.23	$8.31	$151.37	$6,800	$7,695.71	$6,926.14	$6.80	$7.70	$6.93	$126.14	$5,440	$6,156.57	$5,540.91	$5.44	$6.16	$5.54	$100.91
R-1	Hotels & Motels	1,000	$3,358	$3,800.32	$3,420.29	$11.21	$12.69	$11.42	$62.29	$2,798	$3,166.56	$2,849.90	$9.35	$10.58	$9.52	$51.90	$2,239	$2,533.93	$2,280.53	$7.48	$8.47	$7.62	$41.53
		5,000	$3,806	$4,307.34	$3,876.60	$13.66	$15.46	$13.91	$70.60	$3,172	$3,589.82	$3,230.84	$11.38	$12.88	$11.59	$58.84	$2,538	$2,872.31	$2,585.08	$9.10	$10.30	$9.27	$47.08
		10,000	$4,489	$5,080.30	$4,572.27	$7.69	$8.70	$7.83	$83.27	$3,741	$4,233.77	$3,810.40	$6.41	$7.25	$6.53	$69.40	$2,993	$3,387.24	$3,048.52	$5.13	$5.81	$5.23	$55.52
		20,000	$5,258	$5,950.60	$5,355.54	$2.99	$3.38	$3.05	$97.54	$4,382	$4,959.21	$4,463.29	$2.49	$2.82	$2.54	$81.29	$3,506	$3,967.82	$3,571.04	$1.99	$2.25	$2.03	$65.04
		50,000	$6,156	$6,966.88	$6,270.19	$4.01	$4.54	$4.08	$114.19	$5,130	$5,805.74	$5,225.16	$3.34	$3.78	$3.40	$95.16	$4,104	$4,644.59	$4,180.13	$2.67	$3.02	$2.72	$76.13
		100,000	$8,160	$9,234.85	$8,311.37	$8.16	$9.23	$8.31	$151.37	$6,800	$7,695.71	$6,926.14	$6.80	$7.70	$6.93	$126.14	$5,440	$6,156.57	$5,540.91	$5.44	$6.16	$5.54	$100.91
R-1	Hotels & Motels - Phased Permits	1,000	$2,134	$2,415.10	$2,173.59	$6.92	$7.83	$7.05	$39.59	$1,778	$2,012.20	$1,810.98	$5.77	$6.53	$5.88	$32.98	$1,423	$1,610.44	$1,449.40	$4.62	$5.23	$4.71	$26.40
		5,000	$2,411	$2,728.58	$2,455.72	$8.45	$9.56	$8.61	$44.72	$2,009	$2,273.63	$2,046.27	$7.04	$7.97	$7.17	$37.27	$1,607	$1,818.68	$1,636.81	$5.63	$6.37	$5.73	$29.81
		10,000	$2,833	$3,206.17	$2,885.55	$4.74	$5.36	$4.83	$52.55	$2,361	$2,672.00	$2,404.80	$3.95	$4.47	$4.02	$43.80	$1,889	$2,137.82	$1,924.04	$3.16	$3.58	$3.22	$35.04
		20,000	$3,307	$3,742.61	$3,368.35	$1.86	$2.11	$1.89	$61.35	$2,756	$3,119.03	$2,807.12	$1.55	$1.75	$1.58	$51.12	$2,205	$2,495.45	$2,245.90	$1.24	$1.40	$1.26	$40.90
		50,000	$3,864	$4,372.98	$3,935.68	$2.47	$2.80	$2.52	$71.68	$3,220	$3,644.15	$3,279.73	$2.06	$2.33	$2.10	$59.73	$2,576	$2,915.32	$2,623.79	$1.65	$1.87	$1.68	$47.79
		100,000	$5,100	$5,771.78	$5,194.61	$5.10	$5.77	$5.19	$94.61	$4,250	$4,809.82	$4,328.84	$4.25	$4.81	$4.33	$78.84	$3,400	$3,847.86	$3,463.07	$3.40	$3.85	$3.46	$63.07
R - 2.1	Group Care, Non-Amb. (6+)	250	$2,397	$2,712.74	$2,441.46	$31.39	$35.52	$31.97	$44.46	$1,997	$2,260.05	$2,034.04	$26.16	$29.61	$26.65	$37.04	$1,598	$1,808.49	$1,627.64	$20.93	$23.69	$21.32	$29.64
		1,250	$2,711	$3,068.10	$2,761.29	$38.26	$43.30	$38.97	$50.29	$2,259	$2,556.56	$2,300.90	$31.88	$36.08	$32.47	$41.90	$1,807	$2,045.02	$1,840.52	$25.50	$28.86	$25.97	$33.52
		2,500	$3,189	$3,609.06	$3,248.16	$21.53	$24.37	$21.93	$59.16	$2,658	$3,008.12	$2,707.31	$17.94	$20.30	$18.27	$49.31	$2,126	$2,406.04	$2,165.44	$14.35	$16.24	$14.62	$39.44
		5,000	$3,727	$4,217.93	$3,796.14	$8.36	$9.46	$8.52	$69.14	$3,106	$3,515.13	$3,163.62	$6.97	$7.89	$7.10	$57.62	$2,485	$2,812.33	$2,531.10	$5.58	$6.32	$5.68	$46.10
		12,500	$4,355	$4,928.65	$4,435.79	$11.24	$12.72	$11.45	$80.79	$3,629	$4,107.02	$3,696.32	$9.37	$10.60	$9.54	$67.32	$2,903	$3,285.39	$2,956.85	$7.50	$8.49	$7.64	$53.85
		25,000	$5,760	$6,518.72	$5,866.85	$23.04	$26.07	$23.47	$106.85	$4,800	$5,432.27	$4,889.04	$19.20	$21.73	$19.56	$89.04	$3,840	$4,345.81	$3,911.23	$15.36	$17.38	$15.64	$71.23
R-2.1.1	Group Care, Non-Amb. (1-5)	300	$2,839	$3,212.96	$2,891.66	$30.86	$34.92	$31.43	$52.66	$2,366	$2,677.66	$2,409.89	$25.72	$29.11	$26.20	$43.89	$1,893	$2,142.35	$1,928.12	$20.57	$23.28	$20.95	$35.12
		1,500	$3,209	$3,631.70	$3,268.53	$37.64	$42.60	$38.34	$59.53	$2,674	$3,026.23	$2,723.60	$31.36	$35.49	$31.94	$49.60	$2,139	$2,420.75	$2,178.68	$25.09	$28.39	$25.56	$39.68
		3,000	$3,774	$4,271.12	$3,844.01	$21.15	$23.94	$21.54	$70.01	$3,145	$3,559.27	$3,203.34	$17.63	$19.95	$17.96	$58.34	$2,516	$2,847.41	$2,562.67	$14.10	$15.96	$14.36	$46.67
		6,000	$4,408	$4,988.63	$4,489.77	$8.22	$9.30	$8.37	$81.77	$3,674	$4,157.95	$3,742.15	$6.85	$7.75	$6.98	$68.15	$2,939	$3,326.13	$2,993.52	$5.48	$6.20	$5.58	$54.52
		15,000	$5,148	$5,826.11	$5,243.50	$11.07	$12.53	$11.28	$95.50	$4,290	$4,855.09	$4,369.58	$9.22	$10.43	$9.39	$79.58	$3,432	$3,884.07	$3,495.66	$7.38	$8.35	$7.52	$63.66
		30,000	$6,809	$7,705.90	$6,935.31	$22.70	$25.69	$23.12	$126.31	$5,674	$6,421.39	$5,779.25	$18.91	$21.40	$19.26	$105.25	$4,539	$5,136.89	$4,623.20	$15.13	$17.12	$15.41	$84.20
R-2.2	Group Care, Ambulatory (6+)	250	$2,397	$2,712.74	$2,441.46	$31.39	$35.52	$31.97	$44.46	$1,997	$2,260.05	$2,034.04	$26.16	$29.61	$26.65	$37.04	$1,598	$1,808.49	$1,627.64	$20.93	$23.69	$21.32	$29.64
		1,250	$2,711	$3,068.10	$2,761.29	$38.26	$43.30	$38.97	$50.29	$2,259	$2,556.56	$2,300.90	$31.88	$36.08	$32.47	$41.90	$1,807	$2,045.02	$1,840.52	$25.50	$28.86	$25.97	$33.52
		2,500	$3,189	$3,609.06	$3,248.16	$21.53	$24.37	$21.93	$59.16	$2,658	$3,008.12	$2,707.31	$17.94	$20.30	$18.27	$49.31	$2,126	$2,406.04	$2,165.44	$14.35	$16.24	$14.62	$39.44
		5,000	$3,727	$4,217.93	$3,796.14	$8.36	$9.46	$8.52	$69.14	$3,106	$3,515.13	$3,163.62	$6.97	$7.89	$7.10	$57.62	$2,485	$2,812.33	$2,531.10	$5.58	$6.32	$5.68	$46.10
		12,500	$4,355	$4,928.65	$4,435.79	$11.24	$12.72	$11.45	$80.79	$3,629	$4,107.02	$3,696.32	$9.37	$10.60	$9.54	$67.32	$2,903	$3,285.39	$2,956.85	$7.50	$8.49	$7.64	$53.85
		25,000	$5,760	$6,518.72	$5,866.85	$23.04	$26.07	$23.47	$106.85	$4,800	$5,432.27	$4,889.04	$19.20	$21.73	$19.56	$89.04	$3,840	$4,345.81	$3,911.23	$15.36	$17.38	$15.64	$71.23
R-2.2.1	Group Care, Non-Amb. (1-5)	300	$2,839	$3,212.96	$2,891.66	$30.86	$34.92	$31.43	$52.66	$2,366	$2,677.66	$2,409.89	$25.72	$29.11	$26.20	$43.89	$1,893	$2,142.35	$1,928.12	$20.57	$23.28	$20.95	$35.12
		1,500	$3,209	$3,631.70	$3,268.53	$37.64	$42.60	$38.34	$59.53	$2,674	$3,026.23	$2,723.60	$31.36	$35.49	$31.94	$49.60	$2,139	$2,420.75	$2,178.68	$25.09	$28.39	$25.56	$39.68
		3,000	$3,774	$4,271.12	$3,844.01	$21.15	$23.94	$21.54	$70.01	$3,145	$3,559.27	$3,203.34	$17.63	$19.95	$17.96	$58.34	$2,516	$2,847.41	$2,562.67	$14.10	$15.96	$14.36	$46.67
		6,000	$4,408	$4,988.63	$4,489.77	$8.22	$9.30	$8.37	$81.77	$3,674	$4,157.95	$3,742.15	$6.85	$7.75	$6.98	$68.15	$2,939	$3,326.13	$2,993.52	$5.48	$6.20	$5.58	$54.52
		15,000	$5,148	$5,826.11	$5,243.50	$11.07	$12.53	$11.28	$95.50	$4,290	$4,855.09	$4,369.58	$9.22	$10.43	$9.39	$79.58	$3,432	$3,884.07	$3,495.66	$7.38	$8.35	$7.52	$63.66
		30,000	$6,809	$7,705.90	$6,935.31	$22.70	$25.69	$23.12	$126.31	$5,674	$6,421.39	$5,779.25	$18.91	$21.40	$19.26	$105.25	$4,539	$5,136.89	$4,623.20	$15.13	$17.12	$15.41	$84.20
R-3	Dwellings - Custom, Models,	1,000	$2,806	$3,175.61	$2,858.05	$13.56	$15.35	$13.81	$52.05	$2,338	$2,645.97	$2,381.37	$11.30	$12.79	$11.51	$43.37	$1,871	$2,117.45	$1,905.71	$9.04	$10.23	$9.21	$34.71
		2,000	$2,942	$3,329.53	$2,996.57	$19.37	$21.92	$19.73	$54.57	$2,451	$2,773.85	$2,496.47	$16.14	$18.27	$16.44	$45.47	$1,961	$2,219.31	$1,997.38	$12.91	$14.61	$13.15	$36.38
		3,000	$3,135	$3,547.95	$3,193.15	$54.17	$61.31	$55.17	$58.15	$2,613	$2,957.19	$2,661.47	$45.14	$51.09	$45.98	$48.47	$2,090	$2,365.30	$2,128.77	$36.11	$40.87	$36.78	$38.77
		4,000	$3,677	$4,161.34	$3,745.21	$30.95	$35.03	$31.52	$68.21	$3,064	$3,467.60	$3,120.84	$25.79	$29.19	$26.27	$56.84	$2,451	$2,773.85	$2,496.47	$20.63	$23.35	$21.01	$45.47
		5,000	$3,986	$4,511.05	$4,059.94	$16.25	$18.39	$16.55	$73.94	$3,322	$3,759.58	$3,383.62	$13.54	$15.32	$13.79	$61.62	$2,658	$3,008.12	$2,707.31	$10.83	$12.26	$11.03	$49.31
		10,000	$4,799	$5,431.14	$4,888.02	$47.99	$54.31	$48.88	$89.02	$3,999	$4,525.76	$4,073.18	$39.99	$45.26	$40.73	$74.18	$3,199	$3,620.38	$3,258.34	$31.99	$36.20	$32.58	$59.34
R-3	Dwellings - Production Phase	1,000	$1,779	$2,013.33	$1,812.00	$22.74	$25.74	$23.16	$33.00	$1,483	$1,678.34	$1,510.51	$18.95	$21.45	$19.30	$27.51	$1,186	$1,342.22	$1,208.00	$15.16	$17.16	$15.44	$22.00
		2,000	$2,007	$2,271.37	$2,044.23	$34.67	$39.24	$35.31	$37.23	$1,672	$1,892.24	$1,703.02	$28.89	$32.70	$29.43	$31.02	$1,338	$1,514.24	$1,362.82	$23.11	$26.15	$23.54	$24.82
		3,000	$2,353	$2,662.94	$2,396.65	$38.99	$44.13	$39.71	$43.65	$1,961	$2,219.31	$1,997.38	$32.49	$36.77	$33.09	$36.38	$1,569	$1,775.67	$1,598.11	$25.99	$29.41	$26.47	$29.11
		4,000	$2,743	$3,104.31	$2,793.88	$45.48	$51.47	$46.32	$50.88	$2,286	$2,587.12	$2,328.41	$37.90	$42.89	$38.60	$42.41	$1,829	$2,069.92	$1,862.93	$30.32	$34.31	$30.88	$33.93
		5,000	$3,198	$3,619.25	$3,257.32	$20.35	$23.03	$20.73	$59.32	$2,665	$3,016.04	$2,714.44	$16.96	$19.19	$17.27	$49.44	$2,132	$2,412.83	$2,171.55	$13.57	$15.36	$13.82	$39.55
		10,000	$4,216	$4,771.34	$4,294.21	$42.16	$47.71	$42.94	$78.21	$3,513	$3,975.74	$3,578.17	$35.13	$39.76	$35.78	$65.17	$2,810	$3,180.14	$2,862.13	$28.10	$31.80	$28.62	$52.13
R-3	Dwellings - Alternate Materials	1,000	$2,245	$2,540.72	$2,286.64	$10.85	$12.28	$11.05	$41.64	$1,871	$2,117.45	$1,905.71	$9.04	$10.23	$9.21	$34.71	$1,496	$1,693.06	$1,523.75	$7.23	$8.18	$7.36	$27.75

EXHIBIT A

CITY OF COVINA
CONSOLIDATED SCHEDULE OF NEW CONSTRUCTION FEES (P/C PROCESSING AND INSPECTION COMBINED)
(All Construction Types)

NEW CONSTRUCTION

UBC Class	Occupancy Type	Project Size Threshold	Types IA (I & IIFR) Current Fee	Full Cost using % change needed	Suggested Base Fee	Current Fee for Each Additional 100 s.f.	Full Cost using % change needed	Suggested Fee for Each Additional 100 s.f.	Difference in base fee	Types IB, IIA, IIIA, VA ~~(II & III & V-1HR)~~ Current Fee	Full Cost using % change needed	Suggested Base Fee	Current Fee for Each Additional 100 s.f.	Full Cost using ICC per sq ft	Suggested Fee for Each Additional 100 s.f.	Difference in base fee	Types IIB, IIIB, IV, VB ~~(II, III, IV, V-N)~~ Current Fee	Full cost using % change needed	Suggested Base Fee	Current Fee for Each Additional 100 s.f.	Full Cost using ICC per sq ft	Suggested Fee for Each Additional 100 s.f.	Difference in base fee
		2,000	$2,353	$2,662.94	$2,396.65	$15.49	$17.53	$15.78	$43.65	$1,961	$2,219.31	$1,997.38	$12.91	$14.61	$13.15	$36.38	$1,569	$1,775.67	$1,598.11	$10.33	$11.69	$10.52	$29.11
		3,000	$2,508	$2,838.36	$2,554.52	$51.06	$57.79	$52.01	$46.52	$2,090	$2,365.30	$2,128.77	$42.55	$48.15	$43.34	$38.77	$1,672	$1,892.24	$1,703.02	$34.04	$38.52	$34.67	$31.02
		4,000	$3,019	$3,416.67	$3,075.00	$24.77	$28.03	$25.23	$56.00	$2,516	$2,847.41	$2,562.67	$20.64	$23.36	$21.02	$46.67	$2,012	$2,277.03	$2,049.32	$16.51	$18.68	$16.82	$37.32
		5,000	$3,266	$3,696.21	$3,326.58	$14.54	$16.46	$14.81	$60.58	$2,722	$3,080.55	$2,772.49	$12.12	$13.72	$12.34	$50.49	$2,178	$2,464.89	$2,218.40	$9.70	$10.98	$9.88	$40.40
		10,000	$3,994	$4,520.10	$4,068.09	$39.94	$45.20	$40.68	$74.09	$3,328	$3,766.37	$3,389.73	$33.28	$37.66	$33.90	$61.73	$2,662	$3,012.64	$2,711.38	$26.62	$30.13	$27.11	$49.38
R-3	Manufactured Housing	1,000	$500	$565.86	$509.28	$1.76	$1.99	$1.79	$9.28	$417	$471.93	$424.74	$1.47	$1.66	$1.50	$7.74	$334	$378.00	$340.20	$1.17	$1.32	$1.19	$6.20
		5,000	$571	$646.21	$581.59	$2.15	$2.43	$2.19	$10.59	$476	$538.70	$484.83	$1.79	$2.03	$1.82	$8.83	$381	$431.19	$388.07	$1.43	$1.62	$1.46	$7.07
		10,000	$678	$767.31	$690.58	$1.20	$1.36	$1.22	$12.58	$565	$639.42	$575.48	$1.00	$1.13	$1.02	$10.48	$452	$511.54	$460.38	$0.80	$0.91	$0.81	$8.38
		20,000	$798	$903.11	$812.80	$0.47	$0.53	$0.48	$14.80	$665	$752.60	$677.34	$0.39	$0.44	$0.40	$12.34	$532	$602.08	$541.87	$0.31	$0.35	$0.32	$9.87
		50,000	$938	$1,061.56	$955.40	$0.62	$0.70	$0.63	$17.40	$781	$883.88	$795.49	$0.51	$0.58	$0.52	$14.49	$625	$707.33	$636.59	$0.41	$0.46	$0.42	$11.59
		100,000	$1,245	$1,408.99	$1,268.09	$1.25	$1.41	$1.27	$23.09	$1,038	$1,174.73	$1,057.26	$1.04	$1.18	$1.06	$19.26	$830	$939.33	$845.40	$0.83	$0.94	$0.85	$15.40
S-1	Mini Storage	1,000	$1,814	$2,052.94	$1,847.65	$5.81	$6.58	$5.92	$33.65	$1,511	$1,710.03	$1,539.03	$4.84	$5.48	$4.93	$28.03	$1,209	$1,368.25	$1,231.43	$3.87	$4.38	$3.94	$22.43
		5,000	$2,046	$2,315.50	$2,083.95	$7.08	$8.01	$7.21	$37.95	$1,705	$1,929.59	$1,736.63	$5.90	$6.68	$6.01	$31.63	$1,364	$1,543.67	$1,389.30	$4.72	$5.34	$4.81	$25.30
		10,000	$2,400	$2,716.13	$2,444.52	$3.98	$4.50	$4.05	$44.52	$2,000	$2,263.44	$2,037.10	$3.32	$3.76	$3.38	$37.10	$1,600	$1,810.76	$1,629.68	$2.66	$3.01	$2.71	$29.68
		20,000	$2,798	$3,166.56	$2,849.90	$1.55	$1.75	$1.58	$51.90	$2,332	$2,639.18	$2,375.26	$1.29	$1.46	$1.31	$43.26	$1,866	$2,111.79	$1,900.61	$1.03	$1.17	$1.05	$34.61
		50,000	$3,264	$3,693.94	$3,324.55	$2.06	$2.33	$2.10	$60.55	$2,720	$3,078.28	$2,770.46	$1.72	$1.95	$1.75	$50.46	$2,176	$2,462.63	$2,216.37	$1.38	$1.56	$1.41	$40.37
		100,000	$4,296	$4,861.88	$4,375.69	$4.30	$4.87	$4.38	$79.69	$3,580	$4,051.57	$3,646.41	$3.58	$4.05	$3.65	$66.41	$2,864	$3,241.25	$2,917.13	$2.86	$3.24	$2.91	$53.13
S-1	Moderate Hazard Storage	1,000	$2,443	$2,764.80	$2,488.32	$8.01	$9.07	$8.16	$45.32	$2,036	$2,304.19	$2,073.77	$6.67	$7.55	$6.79	$37.77	$1,628	$1,842.44	$1,658.20	$5.34	$6.04	$5.44	$30.20
		5,000	$2,763	$3,126.95	$2,814.25	$9.76	$11.05	$9.94	$51.25	$2,303	$2,606.36	$2,345.72	$8.13	$9.20	$8.28	$42.72	$1,842	$2,084.63	$1,876.17	$6.50	$7.36	$6.62	$34.17
		10,000	$3,251	$3,679.23	$3,311.31	$5.48	$6.20	$5.58	$60.31	$2,709	$3,065.84	$2,759.25	$4.57	$5.17	$4.65	$50.25	$2,167	$2,452.44	$2,207.20	$3.66	$4.14	$3.73	$40.20
		20,000	$3,799	$4,299.41	$3,869.47	$2.14	$2.42	$2.18	$70.47	$3,166	$3,583.03	$3,224.73	$1.78	$2.01	$1.81	$58.73	$2,533	$2,866.65	$2,579.99	$1.42	$1.61	$1.45	$46.99
		50,000	$4,440	$5,024.85	$4,522.36	$2.88	$3.26	$2.93	$82.36	$3,700	$4,187.37	$3,768.64	$2.40	$2.72	$2.44	$68.64	$2,960	$3,349.90	$3,014.91	$1.92	$2.17	$1.96	$54.91
		100,000	$5,880	$6,654.53	$5,989.07	$5.88	$6.65	$5.99	$109.07	$4,900	$5,545.44	$4,990.90	$4.90	$5.55	$4.99	$90.90	$3,920	$4,436.35	$3,992.72	$3.92	$4.44	$3.99	$72.72
S-2	Warehouse	5,000	$3,339	$3,778.82	$3,400.94	$2.21	$2.50	$2.25	$61.94	$2,783	$3,149.58	$2,834.62	$1.84	$2.08	$1.87	$51.62	$2,226	$2,519.21	$2,267.29	$1.47	$1.66	$1.50	$41.29
		25,000	$3,780	$4,277.91	$3,850.12	$2.67	$3.02	$2.72	$70.12	$3,150	$3,564.93	$3,208.43	$2.23	$2.52	$2.27	$58.43	$2,520	$2,851.94	$2,566.75	$1.78	$2.01	$1.81	$46.75
		50,000	$4,448	$5,033.90	$4,530.51	$1.52	$1.72	$1.55	$82.51	$3,706	$4,194.16	$3,774.75	$1.26	$1.43	$1.28	$68.75	$2,965	$3,355.56	$3,020.00	$1.01	$1.14	$1.03	$55.00
		100,000	$5,205	$5,890.61	$5,301.55	$0.58	$0.66	$0.59	$96.55	$4,338	$4,909.41	$4,418.47	$0.48	$0.54	$0.49	$80.47	$3,470	$3,927.08	$3,534.37	$0.39	$0.44	$0.40	$64.37
		250,000	$6,075	$6,875.21	$6,187.69	$0.78	$0.88	$0.79	$112.69	$5,063	$5,729.91	$5,156.92	$0.65	$0.74	$0.66	$93.92	$4,050	$4,583.48	$4,125.13	$0.52	$0.59	$0.53	$75.13
		500,000	$8,025	$9,082.07	$8,173.86	$1.61	$1.82	$1.64	$148.86	$6,688	$7,568.96	$6,812.06	$1.34	$1.52	$1.36	$124.06	$5,350	$6,054.71	$5,449.24	$1.07	$1.21	$1.09	$99.24
S-3	Motor Vehicle Fuel Dispensing	200	$2,410	$2,727.45	$2,454.71	$38.78	$43.89	$39.50	$44.71	$2,008	$2,272.50	$2,045.25	$32.32	$36.58	$32.92	$37.25	$1,607	$1,818.68	$1,636.81	$25.85	$29.26	$26.33	$29.81
		1,000	$2,720	$3,078.28	$2,770.46	$47.28	$53.51	$48.16	$50.46	$2,267	$2,565.61	$2,309.05	$39.40	$44.59	$40.13	$42.05	$1,813	$2,051.81	$1,846.63	$31.52	$35.67	$32.10	$33.63
		2,000	$3,193	$3,613.59	$3,252.23	$26.60	$30.10	$27.09	$59.23	$2,661	$3,011.51	$2,710.36	$22.16	$25.08	$22.57	$49.36	$2,129	$2,409.44	$2,168.49	$17.73	$20.07	$18.06	$39.49
		4,000	$3,725	$4,215.67	$3,794.10	$10.35	$11.71	$10.54	$69.10	$3,104	$3,512.87	$3,161.58	$8.62	$9.76	$8.78	$57.58	$2,483	$2,810.07	$2,529.06	$6.90	$7.81	$7.03	$46.06
		10,000	$4,346	$4,918.47	$4,426.62	$13.88	$15.71	$14.14	$80.62	$3,621	$4,097.97	$3,688.17	$11.56	$13.08	$11.77	$67.17	$2,897	$3,278.60	$2,950.74	$9.25	$10.47	$9.42	$53.74
		20,000	$5,733	$6,488.16	$5,839.35	$28.67	$32.45	$29.20	$106.35	$4,778	$5,407.37	$4,866.63	$23.89	$27.04	$24.33	$88.63	$3,822	$4,325.44	$3,892.90	$19.11	$21.63	$19.46	$70.90
S-3	Repair Garage	200	$1,756	$1,987.30	$1,788.57	$28.02	$31.71	$28.54	$32.57	$1,464	$1,656.84	$1,491.16	$23.35	$26.43	$23.78	$27.16	$1,171	$1,325.25	$1,192.72	$18.68	$21.14	$19.03	$21.72
		1,000	$1,980	$2,240.81	$2,016.73	$34.18	$38.68	$34.81	$36.73	$1,650	$1,867.34	$1,680.61	$28.48	$32.23	$29.01	$30.61	$1,320	$1,493.87	$1,344.49	$22.78	$25.78	$23.20	$24.49
		2,000	$2,322	$2,627.86	$2,365.07	$19.22	$21.75	$19.58	$43.07	$1,935	$2,189.88	$1,970.89	$16.02	$18.13	$16.32	$35.89	$1,548	$1,751.91	$1,576.72	$12.82	$14.51	$13.06	$28.72
		4,000	$2,707	$3,063.57	$2,757.22	$7.47	$8.45	$7.61	$50.22	$2,256	$2,553.17	$2,297.85	$6.22	$7.04	$6.34	$41.85	$1,804	$2,041.63	$1,837.46	$4.98	$5.64	$5.07	$33.46
		10,000	$3,155	$3,570.58	$3,213.53	$10.04	$11.36	$10.23	$58.53	$2,629	$2,975.30	$2,677.77	$8.37	$9.47	$8.53	$48.77	$2,103	$2,380.01	$2,142.01	$6.70	$7.58	$6.82	$39.01
		20,000	$4,159	$4,706.83	$4,236.15	$20.80	$23.54	$21.19	$77.15	$3,466	$3,922.55	$3,530.29	$17.33	$19.61	$17.65	$64.29	$2,773	$3,138.27	$2,824.44	$13.86	$15.69	$14.12	$51.44
S-4	Parking Garage	1,000	$1,791	$2,026.91	$1,824.22	$5.72	$6.47	$5.83	$33.22	$1,492	$1,688.53	$1,519.68	$4.77	$5.40	$4.86	$27.68	$1,194	$1,351.28	$1,216.15	$3.82	$4.32	$3.89	$22.15
		5,000	$2,020	$2,286.08	$2,057.47	$6.98	$7.90	$7.11	$37.47	$1,683	$1,904.69	$1,714.22	$5.82	$6.59	$5.93	$31.22	$1,346	$1,523.30	$1,370.97	$4.66	$5.27	$4.75	$24.97
		10,000	$2,369	$2,681.05	$2,412.95	$3.94	$4.46	$4.01	$43.95	$1,974	$2,234.02	$2,010.62	$3.28	$3.71	$3.34	$36.62	$1,579	$1,786.99	$1,608.29	$2.62	$2.97	$2.67	$29.29
		20,000	$2,762	$3,125.82	$2,813.24	$1.53	$1.73	$1.56	$51.24	$2,302	$2,605.22	$2,344.70	$1.28	$1.45	$1.30	$42.70	$1,842	$2,084.63	$1,876.17	$1.02	$1.15	$1.04	$34.17
		50,000	$3,222	$3,646.41	$3,281.77	$2.05	$2.32	$2.09	$59.77	$2,685	$3,038.67	$2,734.81	$1.71	$1.94	$1.74	$49.81	$2,148	$2,430.94	$2,187.85	$1.37	$1.55	$1.40	$39.85
		100,000	$4,248	$4,807.56	$4,326.80	$4.25	$4.81	$4.33	$78.80	$3,540	$4,006.30	$3,605.67	$3.54	$4.01	$3.61	$65.67	$2,832	$3,205.04	$2,884.53	$2.83	$3.20	$2.88	$52.53
U-1	Agricultural Building	1,000	$2,238	$2,532.79	$2,279.52	$7.16	$8.10	$7.29	$41.52	$1,865	$2,110.66	$1,899.60	$5.96	$6.75	$6.07	$34.60	$1,492	$1,688.53	$1,519.68	$4.77	$5.40	$4.86	$27.68
		5,000	$2,525	$2,857.60	$2,571.84	$8.73	$9.88	$8.89	$46.84	$2,104	$2,381.14	$2,143.03	$7.28	$8.24	$7.42	$39.03	$1,683	$1,904.69	$1,714.22	$5.82	$6.59	$5.93	$31.22
		10,000	$2,961	$3,351.03	$3,015.93	$4.92	$5.57	$5.01	$54.93	$2,468	$2,793.09	$2,513.78	$4.10	$4.64	$4.18	$45.78	$1,974	$2,234.02	$2,010.62	$3.28	$3.71	$3.34	$36.62
		20,000	$3,453	$3,907.84	$3,517.05	$1.92	$2.17	$1.96	$64.05	$2,878	$3,257.10	$2,931.39	$1.60	$1.81	$1.63	$53.39	$2,302	$2,605.22	$2,344.70	$1.28	$1.45	$1.30	$42.70
		50,000	$4,028	$4,558.58	$4,102.72	$2.57	$2.91	$2.62	$74.72	$3,356	$3,798.06	$3,418.25	$2.14	$2.42	$2.18	$62.25	$2,685	$3,038.67	$2,734.81	$1.71	$1.94	$1.74	$49.81
		100,000	$5,310	$6,009.45	$5,408.50	$5.31	$6.01	$5.41	$98.50	$4,425	$5,007.87	$4,507.08	$4.43	$5.01	$4.51	$82.08	$3,540	$4,006.30	$3,605.67	$3.54	$4.01	$3.61	$65.67

EXHIBIT A

CITY OF COVINA
AGENDA ITEM COMMENTARY

MEETING DATE June 2, 2015 **ITEM NO. NB 3**

STAFF SOURCE Amy Hall-McGrade, Parks & Recreation and Library Services Director
Lisa Evans, Parks & Recreation Manager

ITEM TITLE Approve Contract Amendment for Alliant Consulting, Inc. for Cougar Park Project #M-1204 in amount of $4,351.00

STAFF RECOMMENDATION

Approve Amendment No. 1 to the contract with Alliant Consulting, Inc. for Cougar Park Project #M-1204 in the amount of $4,351.00, increasing the contract cost from $19,410 to $23,761.

FISCAL IMPACT

Sufficient funding for the contract amendment is available in the Parks & Resources Department budget (account 46003400 55200). Funding for the Cougar Park Project comes from $2,125,750 in Proposition A grant funds and $360,000 in Bond Proceeds of the former Covina Redevelopment Agency.

BACKGROUND

The California State Parks' Office of Grants and Local Services awarded the City of Covina and Covina Parks & Recreation Department $2,125,750 in funding for the Cougar Park Project M-1204 pursuant to Proposition 84 (Public Resources Code §§75001 et seq.). All Proposition 84 Grantees must provide a Labor Compliance Program Certification Form to the State Office of Grants and Local Services before requesting a grant payment for construction costs. Public Resources Code §75075 requires that "the body awarding any contract for a public works project financed in any part from funds made available pursuant to this division shall adopt and enforce, or contract with a third party to enforce, a labor compliance program pursuant to subdivision (b) of Labor Code Section 1771.5 for application to that public works project."

The purpose of the Labor Compliance Program is to ensure that the construction contracts comply with prevailing wage laws, and that payroll records follow generally accepted accounting practices.

The City entered into a contract with Alliant Consulting, Inc. in the amount of $19,410 for the following services:

- Prepare a Labor Compliance Program
- Review bid ad, bid documents and general conditions
- Attend pre-bid meeting
- Attend pre-construction meting
- Review construction payrolls

- Prepare annual reporting
- Complete site interviews

The contract period is May 20, 2013 to July 30, 2015. The contract has exceeded the initial contract amount due to project time extensions and issues with the contractor not providing required payroll documentation in a timely manner. The original contract amount was $19,410. As of April 30, 2015, $23,761 has been paid to Alliant Consulting, Inc. The final contract amount cannot be determined at this time as it is dependent on the Contractor providing the necessary documentation to fulfill the Labor Compliance requirements.

EXHIBITS

A. Alliant Consulting, Inc. Contract
B. Alliant Consulting, Inc. Proposal

Respectfully submitted

Amy Hall-McGrade, Director
Parks & Recreation Department

CITY OF COVINA
PROFESSIONAL SERVICES AGREEMENT

1. PARTIES AND DATE.

This Agreement is made and entered into this 20th day of May, 2013 by and between the City of Covina, a municipal corporation organized under the laws of the State of California with its principal place of business at 125 East College Street, Covina, California 91723 ("City") and Alliant Consulting, Inc., a Corporation with its principal place of business at 555 Cajon Street, Suite A Redlands, California 92373 ("Consultant"). City and Consultant are sometimes individually referred to as "Party" and collectively as "Parties" in this Agreement.

2. RECITALS.

2.1 Consultant.

Consultant desires to perform and assume responsibility for the provision of certain professional services required by the City on the terms and conditions set forth in this Agreement. Consultant represents that it is experienced in providing Labor Compliance Monitoring services to public clients, is licensed in the State of California, and is familiar with the plans of City.

2.2 Project

City desires to engage Consultant to render such services for the Cougar Park project ("Project") as set forth in this Agreement.

3. TERMS.

3.1 Scope of Services and Term.

3.1.1 General Scope of Services. Consultant promises and agrees to furnish to the City all labor, materials, tools, equipment, services, and incidental and customary work necessary to fully and adequately supply the professional Labor Compliance Monitoring and creation of the City's LCP (Labor Compliance Program) for the Project ("Services"). The Services are more particularly described in Exhibit "A" attached hereto and incorporated herein by reference. All Services shall be subject to, and performed in accordance with, this Agreement, the exhibits attached hereto and incorporated herein by reference, and all applicable local, state and federal laws, rules, and regulations.

3.1.2 Term. The term of this Agreement shall be from May 20, 2013 to July 30, 2015, unless earlier terminated as provided herein. Consultant shall complete the Services within the term of this Agreement, and shall meet any other established schedules and deadlines.

The Parties may, by mutual, written consent, extend the term of this Agreement if necessary to complete the Services.

3.2 Responsibilities of Consultant.

3.2.1 Control and Payment of Subordinates; Independent Contractor. The Services shall be performed by Consultant or under its supervision. Consultant will determine the means, methods and details of performing the Services subject to the requirements of this Agreement. City retains Consultant on an independent contractor basis and not as an employee. Consultant retains the right to perform similar or different services for others during the term of this Agreement. Any additional personnel performing the Services under this Agreement on behalf of Consultant shall also not be employees of City and shall at all times be under Consultant's exclusive direction and control. Consultant shall pay all wages, salaries, and other amounts due such personnel in connection with their performance of Services under this Agreement and as required by law. Consultant shall be responsible for all reports and obligations respecting such additional personnel, including, but not limited to: social security taxes, income tax withholding, unemployment insurance, disability insurance, and workers' compensation insurance.

3.2.2 Schedule of Services. Consultant shall perform the Services expeditiously, within the term of this Agreement, and in accordance with the Schedule of Services set forth in Exhibit "A" attached hereto and incorporated herein by reference. Consultant represents that it has the professional and technical personnel required to perform the Services in conformance with such conditions. In order to facilitate Consultant's conformance with the Schedule, City shall respond to Consultant's submittals in a timely manner. Upon request of City, Consultant shall provide a more detailed schedule of anticipated performance to meet the Schedule of Services.

3.2.3 Conformance to Applicable Requirements. All work prepared by Consultant shall be subject to the approval of City.

3.2.4 Substitution of Key Personnel. Consultant has represented to City that certain key personnel will perform and coordinate the Services under this Agreement. Should one or more of such personnel become unavailable, Consultant may substitute other personnel of at least equal competence upon written approval of City. In the event that City and Consultant cannot agree as to the substitution of key personnel, City shall be entitled to terminate this Agreement for cause. As discussed below, any personnel who fail or refuse to perform the Services in a manner acceptable to the City, or who are determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of the Project or a threat to the safety of persons or property, shall be promptly removed from the Project by the Consultant at the request of the City. The key personnel for performance of this Agreement are as follows: Christa Schott, President of Alliant Consulting, Inc. and Vickie Westfall, Vice President.

3.2.5 City's Representative. The City hereby designates City Manager, or his or her designee, to act as its representative for the performance of this Agreement ("City's Representative"). City's Representative shall have the power to act on behalf of the City for all

purposes under this Contract. Consultant shall not accept direction or orders from any person other than the City's Representative or his or her designee.

3.2.6 Consultant's Representative. Consultant hereby designates Christa Schott, President, Alliant Consulting, Inc., or his or her designee, to act as its representative for the performance of this Agreement ("Consultant's Representative"). Consultant's Representative shall have full authority to represent and act on behalf of the Consultant for all purposes under this Agreement. The Consultant's Representative shall supervise and direct the Services, using his best skill and attention, and shall be responsible for all means, methods, techniques, sequences, and procedures and for the satisfactory coordination of all portions of the Services under this Agreement.

3.2.7 Coordination of Services. Consultant agrees to work closely with City staff in the performance of Services and shall be available to City's staff, consultants and other staff at all reasonable times.

3.2.8 Standard of Care; Performance of Employees. Consultant shall perform all Services under this Agreement in a skillful and competent manner, consistent with the standards generally recognized as being employed by professionals in the same discipline in the State of California. Consultant represents and maintains that it is skilled in the professional calling necessary to perform the Services. Consultant warrants that all employees and subconsultants shall have sufficient skill and experience to perform the Services assigned to them. Finally, Consultant represents that it, its employees and subconsultants have all licenses, permits, qualifications and approvals of whatever nature that are legally required to perform the Services, including a City Business License, and that such licenses and approvals shall be maintained throughout the term of this Agreement. As provided for in the indemnification provisions of this Agreement, Consultant shall perform, at its own cost and expense and without reimbursement from the City, any services necessary to correct errors or omissions which are caused by the Consultant's failure to comply with the standard of care provided for herein. Any employee of the Consultant or its sub-consultants who is determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of the Project, a threat to the safety of persons or property, or any employee who fails or refuses to perform the Services in a manner acceptable to the City, shall be promptly removed from the Project by the Consultant and shall not be re-employed to perform any of the Services or to work on the Project.

3.2.9 Period of Performance and Liquidated Damages. Consultant shall perform and complete all Services under this Agreement within the term set forth in Section 3.1.2 above ("Performance Time"). Consultant shall also perform the Services in strict accordance with any completion schedule or Project milestones described in Exhibits "A" attached hereto, or which may be separately agreed upon in writing by the City and Consultant ("Performance Milestones"). Consultant agrees that if the Services are not completed within the aforementioned Performance Time and/or pursuant to any such Project Milestones developed pursuant to provisions of this Agreement, it is understood, acknowledged and agreed that the City will suffer damage.

3.2.10 Laws and Regulations; Employee/Labor Certifications. Consultant shall keep itself fully informed of and in compliance with all local, state and federal laws, rules and

regulations in any manner affecting the performance of the Project or the Services, including all Cal/OSHA requirements, and shall give all notices required by law. Consultant shall be liable for all violations of such laws and regulations in connection with Services. If the Consultant performs any work knowing it to be contrary to such laws, rules and regulations and without giving written notice to the City, Consultant shall be solely responsible for all costs arising therefrom. Consultant shall defend, indemnify and hold City, its officials, directors, officers, employees, and agents free and harmless, pursuant to the indemnification provisions of this Agreement, from any claim or liability arising out of any failure or alleged failure to comply with such laws, rules or regulations.

3.2.10.1 Employment Eligibility; Consultant. By executing this Agreement, Consultant verifies that it fully complies with all requirements and restrictions of state and federal law respecting the employment of undocumented aliens, including, but not limited to, the Immigration Reform and Control Act of 1986, as may be amended from time to time. Such requirements and restrictions include, but are not limited to, examination and retention of documentation confirming the identity and immigration status of each employee of the Consultant. Consultant also verifies that it has not committed a violation of any such law within the five (5) years immediately preceding the date of execution of this Agreement, and shall not violate any such law at any time during the term of the Agreement. Consultant shall avoid any violation of any such law during the term of this Agreement by participating in an electronic verification of work authorization program operated by the United States Department of Homeland Security, by participating in an equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, or by some other legally acceptable method. Consultant shall maintain records of each such verification, and shall make them available to the City or its representatives for inspection and copy at any time during normal business hours. The City shall not be responsible for any costs or expenses related to Consultant's compliance with the requirements provided for in Section 3.2.10 or any of its sub-sections.

3.2.10.2 Employment Eligibility; Subcontractors, Consultants, Sub-subcontractors and Subconsultants. To the same extent and under the same conditions as Consultant, Consultant shall require all of its subcontractors, consultants, sub-subcontractors and subconsultants performing any work relating to the Project or this Agreement to make the same verifications and comply with all requirements and restrictions provided for in Section 3.2.10.1.

3.2.10.3 Employment Eligibility; Failure to Comply. Each person executing this Agreement on behalf of Consultant verifies that they are a duly authorized officer of Consultant, and understands that any of the following shall be grounds for the City to terminate the Agreement for cause: (1) failure of Consultant or its subcontractors, consultants, sub-subcontractors or subconsultants to meet any of the requirements provided for in Sections 3.2.10.1 or 3.2.10.2; (2) any misrepresentation or material omission concerning compliance with such requirements (including in those verifications provided to the Consultant under Section 3.2.10.2); or (3) failure to immediately remove from the Project any person found not to be in compliance with such requirements.

3.2.10.4 Labor Certification. By its signature hereunder, Consultant certifies that it is aware of the provisions of Section 3700 of the California 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 agrees to comply with such provisions before commencing the performance of the Services.

3.2.10.5 Equal Opportunity Employment. Consultant represents that it is an equal opportunity employer and it shall not discriminate against any subconsultant, employee or applicant for employment because of race, religion, color, national origin, handicap, ancestry, sex or age. Such non-discrimination shall include, but not be limited to, all activities related to initial employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff or termination. Consultant shall also comply with all relevant provisions of City's Minority Business Enterprise program, Affirmative Action Plan or other related programs or guidelines currently in effect or hereinafter enacted.

3.2.10.6 Air Quality. To the extent applicable, Consultant must fully comply with all applicable laws, rules and regulations in furnishing or using equipment and/or providing services, including, but not limited to, emissions limits and permitting requirements imposed by the South Coast Air Quality Management District (SCAQMD) and/or California Air Resources Board (CARB). Although the SCAQMD and CARB limits and requirements are more broad, Consultant shall specifically be aware of their application to "portable equipment", which definition is considered by SCAQMD and CARB to include any item of equipment with a fuel-powered engine. Consultant shall indemnify City against any fines or penalties imposed by SCAQMD, CARB, or any other governmental or regulatory agency for violations of applicable laws, rules and/or regulations by Consultant, its subconsultants, or others for whom Consultant is responsible under its indemnity obligations provided for in this Agreement.

3.2.11 Insurance.

3.2.11.1 Time for Compliance. Consultant shall not commence Work under this Agreement until it has provided evidence satisfactory to the City that it has secured all insurance required under this section. In addition, Consultant shall not allow any subconsultant to commence work on any subcontract until it has provided evidence satisfactory to the City that the subconsultant has secured all insurance required under this section. Failure to provide and maintain all required insurance shall be grounds for the City to terminate this Agreement for cause.

3.2.11.2 Minimum Requirements. Consultant shall, at its expense, procure and maintain for the duration of the Agreement insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the Agreement by the Consultant, its agents, representatives, employees or subconsultants. Consultant shall also require all of its subconsultants to procure and maintain the same insurance for the duration of the Agreement. Such insurance shall meet at least the following minimum levels of coverage:

(A) Minimum Scope of Insurance. Coverage shall be at least as broad as the latest version of the following: (1) *General Liability*: Insurance Services Office Commercial General Liability coverage (occurrence form CG 0001); (2) *Automobile Liability*:

Insurance Services Office Business Auto Coverage form number CA 0001, code 1 (any auto); and (3) *Workers' Compensation and Employer's Liability*: Workers' Compensation insurance as required by the State of California and Employer's Liability Insurance.

(B) Minimum Limits of Insurance. Consultant shall maintain limits no less than: (1) *General Liability:* $1,000,000 per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with general aggregate limit is used including, but not limited to, form CG 2503, either the general aggregate limit shall apply separately to this Agreement/location or the general aggregate limit shall be twice the required occurrence limit; (2) *Automobile Liability: $1,000,000* per accident for bodily injury and property damage; and (3) *Workers' Compensation and Employer's Liability:* Workers' Compensation limits as required by the Labor Code of the State of California. Employer's Liability limits of $1,000,000 per accident for bodily injury or disease.

3.2.11.3 Professional Liability. Consultant shall procure and maintain, and require its sub-consultants to procure and maintain, for a period of five (5) years following completion of the Project, errors and omissions liability insurance appropriate to their profession. Such insurance shall be in an amount not less than $2,000,000 per claim, and shall be endorsed to include contractual liability.

3.2.11.4 Insurance Endorsements. The insurance policies shall contain the following provisions, or Consultant shall provide endorsements on forms supplied or approved by the City to add the following provisions to the insurance policies:

(A) General Liability. The general liability policy shall include or be endorsed (amended) to state that: (1) the City, its directors, officials, officers, employees, agents, and volunteers shall be covered as additional insured with respect to the Work or operations performed by or on behalf of the Consultant, including materials, parts or equipment furnished in connection with such work; and (2) the insurance coverage shall be primary insurance as respects the City, its directors, officials, officers, employees, agents, and volunteers, or if excess, shall stand in an unbroken chain of coverage excess of the Consultant's scheduled underlying coverage. Any insurance or self-insurance maintained by the City, its directors, officials, officers, employees, agents, and volunteers shall be excess of the Consultant's insurance and shall not be called upon to contribute with it in any way.

(B) Automobile Liability. The automobile liability policy shall include or be endorsed (amended) to state that: (1) the City, its directors, officials, officers, employees, agents, and volunteers shall be covered as additional insureds with respect to the ownership, operation, maintenance, use, loading or unloading of any auto owned, leased, hired or borrowed by the Consultant or for which the Consultant is responsible; and (2) the insurance coverage shall be primary insurance as respects the City, its directors, officials, officers, employees, agents, and volunteers, or if excess, shall stand in an unbroken chain of coverage excess of the Consultant's scheduled underlying coverage. Any insurance or self-insurance maintained by the City, its directors, officials, officers, employees, agents, and volunteers shall be excess of the Consultant's insurance and shall not be called upon to contribute with it in any way.

(C) Workers' Compensation and Employer's Liability Coverage. The insurer shall agree to waive all rights of subrogation against the City, its directors, officials, officers, employees, agents, and volunteers for losses paid under the terms of the insurance policy which arise from work performed by the Consultant.

(D) All Coverages. Each insurance policy required by this Agreement shall be endorsed to state that: (A) coverage shall not be suspended, voided, reduced or canceled except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the City; and (B) any failure to comply with reporting or other provisions of the policies, including breaches of warranties, shall not affect coverage provided to the City, its directors, officials, officers, employees, agents, and volunteers.

3.2.11.5 Separation of Insureds; No Special Limitations. All insurance required by this Section shall contain standard separation of insureds provisions. In addition, such insurance shall not contain any special limitations on the scope of protection afforded to the City, its directors, officials, officers, employees, agents, and volunteers.

3.2.11.6 Deductibles and Self-Insurance Retentions. Any deductibles or self-insured retentions must be declared to and approved by the City. Consultant shall guarantee that, at the option of the City, either: (1) the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the City, its directors, officials, officers, employees, agents, and volunteers; or (2) the Consultant shall procure a bond guaranteeing payment of losses and related investigation costs, claims, and administrative and defense expenses.

3.2.11.7 Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best's rating no less than A:VIII, licensed to do business in California, and satisfactory to the City.

3.2.11.8 Verification of Coverage. Consultant shall furnish City with original certificates of insurance and endorsements effecting coverage required by this Agreement on forms satisfactory to the City. The certificates and endorsements for each insurance policy shall be signed by a person authorized by that insurer to bind coverage on its behalf, and shall be on forms provided by the City if requested. All certificates and endorsements must be received and approved by the City before work commences. The City reserves the right to require complete, certified copies of all required insurance policies, at any time.

3.2.11.9 Reporting of Claims. Consultant shall report to the City, in addition to Consultant's insurer, any and all insurance claims submitted by Consultant in connection with the Services under this Agreement.

3.2.12 Safety. Consultant shall execute and maintain its work so as to avoid injury or damage to any person or property. In carrying out its Services, the Consultant shall at all times be in compliance with all applicable local, state and federal laws, rules and regulations, and shall exercise all necessary precautions for the safety of employees appropriate to the nature of the work and the conditions under which the work is to be performed. Safety precautions as

applicable shall include, but shall not be limited to: (A) adequate life protection and life saving equipment and procedures; (B) instructions in accident prevention for all employees and subconsultants, such as safe walkways, scaffolds, fall protection ladders, bridges, gang planks, confined space procedures, trenching and shoring, equipment and other safety devices, equipment and wearing apparel as are necessary or lawfully required to prevent accidents or injuries; and (C) adequate facilities for the proper inspection and maintenance of all safety measures.

3.2.13 Accounting Records. Consultant shall maintain complete and accurate records with respect to all costs and expenses incurred under this Agreement. All such records shall be clearly identifiable. Consultant shall allow a representative of City during normal business hours to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement. Consultant shall allow inspection of all work, data, documents, proceedings, and activities related to the Agreement for a period of three (3) years from the date of final payment under this Agreement.

3.3 Fees and Payments.

3.3.1 Compensation. Consultant shall receive compensation, including authorized reimbursements, for all Services rendered under this Agreement at the rates set forth in Exhibit "A" attached hereto and incorporated herein by reference. The total compensation shall not exceed Nineteen thousand four hundred and ten dollars ($19,410) without written approval of the City Manager, or his or her designee. Extra Work may be authorized, as described below, and if authorized, will be compensated at the rates and manner set forth in this Agreement.

3.3.2 Payment of Compensation. Consultant shall submit to City a monthly itemized statement which indicates work completed and hours of Services rendered by Consultant. The statement shall describe the amount of Services and supplies provided since the initial commencement date, or since the start of the subsequent billing periods, as appropriate, through the date of the statement. City shall, within 45 days of receiving such statement, review the statement and pay all approved charges thereon.

3.3.3 Reimbursement for Expenses. Consultant shall not be reimbursed for any expenses unless authorized in writing by City.

3.3.4 Extra Work. At any time during the term of this Agreement, City may request that Consultant perform Extra Work. As used herein, "Extra Work" means any work which is determined by City to be necessary for the proper completion of the Project, but which the parties did not reasonably anticipate would be necessary at the execution of this Agreement. Consultant shall not perform, nor be compensated for, Extra Work without written authorization from City's Representative.

3.3.5 Prevailing Wages. Consultant is aware of the requirements of California Labor Code Section 1720, et seq., and 1770, et seq., as well as California Code of Regulations, Title 8, Section 16000, et seq., ("Prevailing Wage Laws"), which require the payment of prevailing wage rates and the performance of other requirements on "public works" and

"maintenance" projects. If the Services are being performed as part of an applicable "public works" or "maintenance" project, as defined by the Prevailing Wage Laws, and if the total compensation is $1,000 or more, Consultant agrees to fully comply with such Prevailing Wage Laws. City shall provide Consultant with a copy of the prevailing rates of per diem wages in effect at the commencement of this Agreement. Consultant shall make copies of the prevailing rates of per diem wages for each craft, classification or type of worker needed to execute the Services available to interested parties upon request, and shall post copies at the Consultant's principal place of business and at the project site. Consultant shall defend, indemnify and hold the City, its elected officials, officers, employees and agents free and harmless from any claim or liability arising out of any failure or alleged failure to comply with the Prevailing Wage Laws.

3.4 Termination of Agreement.

3.4.1 Grounds for Termination. City may, by written notice to Consultant, terminate the whole or any part of this Agreement at any time and without cause by giving written notice to Consultant of such termination, and specifying the effective date thereof, at least seven (7) days before the effective date of such termination. Upon termination, Consultant shall be compensated only for those services which have been adequately rendered to City, and Consultant shall be entitled to no further compensation. Consultant may not terminate this Agreement except for cause.

3.4.2 Effect of Termination. If this Agreement is terminated as provided herein, City may require Consultant to provide all finished or unfinished Documents and Data and other information of any kind prepared by Consultant in connection with the performance of Services under this Agreement. Consultant shall be required to provide such document and other information within fifteen (15) days of the request.

3.4.3 Additional Services. In the event this Agreement is terminated in whole or in part as provided herein, City may procure, upon such terms and in such manner as it may determine appropriate, services similar to those terminated.

3.5 Ownership of Materials and Confidentiality.

3.5.1 Documents & Data; Licensing of Intellectual Property. This Agreement creates a non-exclusive and perpetual license for City to copy, use, modify, reuse, or sublicense any and all copyrights, designs, and other intellectual property embodied in plans, specifications, studies, drawings, estimates, and other documents or works of authorship fixed in any tangible medium of expression, including but not limited to, physical drawings or data magnetically or otherwise recorded on computer diskettes, which are prepared or caused to be prepared by Consultant under this Agreement ("Documents & Data"). All Documents & Data shall be and remain the property of City, and shall not be used in whole or in substantial part by Consultant on other projects without the City's express written permission. Within thirty (30) days following the completion, suspension, abandonment or termination of this Agreement, Consultant shall provide to City reproducible copies of all Documents & Data, in a form and amount required by City. City reserves the right to select the method of document reproduction and to establish where the reproduction will be accomplished. The reproduction expense shall be borne by City at the actual cost of duplication. In the event of a dispute regarding the amount of

compensation to which the Consultant is entitled under the termination provisions of this Agreement, Consultant shall provide all Documents & Data to City upon payment of the undisputed amount. Consultant shall have no right to retain or fail to provide to City any such documents pending resolution of the dispute. In addition, Consultant shall retain copies of all Documents & Data on file for a minimum of fifteen (15) years following completion of the Project, and shall make copies available to City upon the payment of actual reasonable duplication costs. Before destroying the Documents & Data following this retention period, Consultant shall make a reasonable effort to notify City and provide City with the opportunity to obtain the documents.

3.5.2 Subconsultants. Consultant shall require all subconsultants to agree in writing that City is granted a non-exclusive and perpetual license for any Documents & Data the subconsultant prepares under this Agreement. Consultant represents and warrants that Consultant has the legal right to license any and all Documents & Data. Consultant makes no such representation and warranty in regard to Documents & Data which were prepared by design professionals other than Consultant or its subconsultants, or those provided to Consultant by the City.

3.5.3 Right to Use. City shall not be limited in any way in its use or reuse of the Documents and Data or any part of them at any time for purposes of this Project or another project, provided that any such use not within the purposes intended by this Agreement or on a project other than this Project without employing the services of Consultant shall be at City's sole risk. If City uses or reuses the Documents & Data on any project other than this Project, it shall remove the Consultant's seal from the Documents & Data and indemnify and hold harmless Consultant and its officers, directors, agents and employees from claims arising out of the negligent use or re-use of the Documents & Data on such other project. Consultant shall be responsible and liable for its Documents & Data, pursuant to the terms of this Agreement, only with respect to the condition of the Documents & Data at the time they are provided to the City upon completion, suspension, abandonment or termination. Consultant shall not be responsible or liable for any revisions to the Documents & Data made by any party other than Consultant, a party for whom the Consultant is legally responsible or liable, or anyone approved by the Consultant.

3.5.4 Indemnification. Consultant shall defend, indemnify and hold the City, its directors, officials, officers, employees, volunteers and agents free and harmless, pursuant to the indemnification provisions of this Agreement, for any alleged infringement of any patent, copyright, trade secret, trade name, trademark, or any other proprietary right of any person or entity in consequence of the use on the Project by City of the Documents & Data, including any method, process, product, or concept specified or depicted.

3.5.5 Confidentiality. All Documents & Data, either created by or provided to Consultant in connection with the performance of this Agreement, shall be held confidential by Consultant. All Documents & Data shall not, without the prior written consent of City, be used or reproduced by Consultant for any purposes other than the performance of the Services. Consultant shall not disclose, cause or facilitate the disclosure of the Documents & Data to any person or entity not connected with the performance of the Services or the Project. Nothing furnished to Consultant that is otherwise known to Consultant or is generally known, or has

become known, to the related industry shall be deemed confidential. Consultant shall not use City's name or insignia, photographs of the Project, or any publicity pertaining to the Services or the Project in any magazine, trade paper, newspaper, television or radio production or other similar medium without the prior written consent of City.

3.6 General Provisions.

3.6.1 Delivery of Notices. All notices permitted or required under this Agreement shall be given to the respective parties at the following address, or at such other address as the respective parties may provide in writing for this purpose:

Consultant:

Alliant Consultant, Inc.
Attn: Christa Schott, President
555 Cajon Street
Suite A
Redlands, CA 92373

City:

City of Covina
125 E. College St.
Covina, CA 91723
Attn: Amy Hall-McGrade
Parks & Recreation and Library Services Director

Such notice shall be deemed made when personally delivered or when mailed, forty-eight (48) hours after deposit in the U.S. Mail, first class postage prepaid and addressed to the party at its applicable address. Actual notice shall be deemed adequate notice on the date actual notice occurred, regardless of the method of service.

3.6.2 Indemnification.

3.6.2.1 Scope of Indemnity. To the fullest extent permitted by law, Consultant shall defend, indemnify and hold the City, its directors, officials, officers, employees, volunteers and agents free and harmless from any and all claims, demands, causes of action, costs, expenses, liability, loss, damage or injury of any kind, in law or equity, to property or persons, including wrongful death, in any manner arising out of, pertaining to, or incident to any alleged acts, errors or omissions of Consultant, its officials, officers, employees, subcontractors, consultants or agents in connection with the performance of the Consultant's Services, the Project or this Agreement, including without limitation the payment of all consequential damages, expert witness fees and attorneys fees and other related costs and expenses. Notwithstanding the foregoing, to the extent Consultant's Services are subject to Civil Code Section 2782.8, the above indemnity 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 willful misconduct of the Consultant.

3.6.2.2 Additional Indemnity Obligations. Consultant shall defend, with Counsel of City's choosing and at Consultant's own cost, expense and risk, any and all claims, suits, actions or other proceedings of every kind covered by Section 3.5.6.1 that may be brought or instituted against City or its directors, officials, officers, employees, volunteers and agents. Consultant shall pay and satisfy any judgment, award or decree that may be rendered against City or its directors, officials, officers, employees, volunteers and agents as part of any such claim, suit, action or other proceeding. Consultant shall also reimburse City for the cost of any settlement paid by City or its directors, officials, officers, employees, agents or volunteers as part of any such claim, suit, action or other proceeding. Such reimbursement shall include payment for City's attorney's fees and costs, including expert witness fees. Consultant shall reimburse City and its directors, officials, officers, employees, agents, and/or volunteers, for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided. Consultant's obligation to indemnify shall survive expiration or termination of this Agreement, and shall not be restricted to insurance proceeds, if any, received by the City, its directors, officials officers, employees, agents, or volunteers.

3.6.3 Governing Law; Government Code Claim Compliance. This Agreement shall be governed by the laws of the State of California. Venue shall be in Los Angeles County. In addition to any and all contract requirements pertaining to notices of and requests for compensation or payment for extra work, disputed work, claims and/or changed conditions, Consultant must comply with the claim procedures set forth in Government Code sections 900 et seq. prior to filing any lawsuit against the City. Such Government Code claims and any subsequent lawsuit based upon the Government Code claims shall be limited to those matters that remain unresolved after all procedures pertaining to extra work, disputed work, claims, and/or changed conditions have been followed by Consultant. If no such Government Code claim is submitted, or if any prerequisite contractual requirements are not otherwise satisfied as specified herein, Consultant shall be barred from bringing and maintaining a valid lawsuit against the City.

3.6.4 Time of Essence. Time is of the essence for each and every provision of this Agreement.

3.6.5 City's Right to Employ Other Consultants. City reserves right to employ other consultants in connection with this Project.

3.6.6 Successors and Assigns. This Agreement shall be binding on the successors and assigns of the parties.

3.6.7 Assignment or Transfer. Consultant shall not assign, hypothecate, or transfer, either directly or by operation of law, this Agreement or any interest herein without the prior written consent of the City. Any attempt to do so shall be null and void, and any assignees, hypothecates or transferees shall acquire no right or interest by reason of such attempted assignment, hypothecation or transfer.

3.6.8 Construction; References; Captions. Since the Parties or their agents have participated fully in the preparation of this Agreement, the language of this Agreement shall be construed simply, according to its fair meaning, and not strictly for or against any Party. Any

term referencing time, days or period for performance shall be deemed calendar days and not work days. All references to Consultant include all personnel, employees, agents, and subconsultants of Consultant, except as otherwise specified in this Agreement. All references to City include its elected officials, officers, employees, agents, and volunteers except as otherwise specified in this Agreement. The captions of the various articles and paragraphs are for convenience and ease of reference only, and do not define, limit, augment, or describe the scope, content or intent of this Agreement.

3.6.9 Amendment; Modification. No supplement, modification or amendment of this Agreement shall be binding unless executed in writing and signed by both Parties.

3.6.10 Waiver. No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver, benefit, privilege, or service voluntarily given or performed by a Party shall give the other Party any contractual rights by custom, estoppel or otherwise.

3.6.11 No Third Party Beneficiaries. Except to the extent expressly provided for in Section 3.6.7, there are no intended third party beneficiaries of any right or obligation assumed by the Parties.

3.6.12 Invalidity; Severability. If any portion of this Agreement is declared invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect.

3.6.13 Prohibited Interests. Consultant maintains and warrants that it has not employed nor retained any company or person, other than a bona fide employee working solely for Consultant, to solicit or secure this Agreement. Further, Consultant warrants that it has not paid nor has it agreed to pay any company or person, other than a bona fide employee working solely for Consultant, any fee, commission, percentage, brokerage fee, gift or other consideration contingent upon or resulting from the award or making of this Agreement. Consultant further agrees to file, or shall cause its employees or subconsultants to file, a Statement of Economic Interest with the City's Filing Officer as required under state law in the performance of the Services. For breach or violation of this warranty, City shall have the right to rescind this Agreement without liability. For the term of this Agreement, no member, officer or employee of City, during the term of his or her service with City, shall have any direct interest in this Agreement, or obtain any present or anticipated material benefit arising therefrom.

3.6.14 Cooperation; Further Acts. The Parties shall fully cooperate with one another, and shall take any additional acts or sign any additional documents as may be necessary, appropriate or convenient to attain the purposes of this Agreement.

3.6.15 Attorney's Fees. If either party commences an action against the other party, either legal, administrative or otherwise, arising out of or in connection with this Agreement, the prevailing party in such litigation shall be entitled to have and recover from the losing party reasonable attorney's fees and all other costs of such action.

3.6.16 Authority to Enter Agreement. Consultant has all requisite power and authority to conduct its business and to execute, deliver, and perform the Agreement. Each Party

warrants that the individuals who have signed this Agreement have the legal power, right, and authority to make this Agreement and bind each respective Party.

3.6.17 Counterparts. This Agreement may be signed in counterparts, each of which shall constitute an original.

3.6.18 Entire Agreement. This Agreement contains the entire Agreement of the parties with respect to the subject matter hereof, and supersedes all prior negotiations, understandings or agreements. This Agreement may only be modified by a writing signed by both parties.

[SIGNATURES ON NEXT PAGE]

SIGNATURE PAGE FOR PROFESSIONAL SERVICES AGREEMENT BETWEEN THE CITY OF COVINA AND ALLIANT CONSULTING, INC.

IN WITNESS WHEREOF, the Parties have entered into this Agreement as of the 20th day of May, 2013.

CITY OF COVINA

By: _____
Daryl Parrish, City Manager

Attest: _____
Catherine La Croix
Senior Deputy City Clerk

ALLIANT CONSULTING, INC.
a Corporation

By: _____
Signature

Christa J. Sanott
Name (Print)

President
Title (Print)

ALLIANT CONSULTING, INC.
LABOR COMPLIANCE MONITORING

Fee Schedule and Proposed Not to Exceed Amount
City of Covina Cougar Park Project

Alliant Consulting proposes to provide full Labor Compliance Monitoring and Enforcement services pursuant to requirements of the Prop. 84 bond measure. Our hourly rates are inclusive of all time, materials, phone calls, equipment and data for providing such services. Our site interview rate is inclusive of all mileage, fuel, insurance and drive time to conduct weekly site interviews throughout the duration of the project. The interview rate is also inclusive of all site interview summaries.

Alliant Consulting proposes to be compensated for services provided pursuant to the rates below:

Prepare Labor Compliance Program (flat rate) = $500
Review Bid Ad, Bid Docs and General Conditions (flat rate) = $250
Pre-Bid Meeting (flat rate) = $150
Pre-Construction Meeting (flat rate) = $300
Payroll Review, $52/hr, estimated 8 hours per week for 35 weeks duration = $14,560
Annual Reporting (flat rate) = $500
Weekly site interviews, $90 per week for 35 weeks = $3,150

ESTIMATED NOT TO EXCEED TOTAL: $ 19,410

*This fee schedule and not to exceed proposal is good for one year, and is good for this project only. It is based on an estimated construction cost of $2,000,000, the scope provided by the City of Covina and a time duration of 9 months. For extension of services due to project delays, change orders or additional services past grant requirements, Alliant Consulting will honor the same hourly amount but the Not to Exceed amount will be changed to reflect the changes in Scope of Work.

Alliant Consulting's monitoring cost will cover full review of certified payroll, on-going communication to affected parties for resolution of any issues, issuance of reports to the state for non-compliance if necessary, site interviews, and routine compliance reports as mandated by the City or Prop. 84 grant requirements.

Fees for Hearing Review

Should a case be prepared by Alliant for withholding and/or litigation that leads to a Hearing for a noncompliant Contractor over the normal Scope of Work due to Hearing, it will result in additional costs of **$65 per hour**, plus direct material expenses. These costs will not be included unless there is a case where a litigation package must be prepared for the State's formal review of forfeitures and withholding. Every effort will be made by Alliant Consulting to keep the Contractor in compliance with CA labor laws.

Menu of Services

Personnel hours required for Phase III Audit and Investigation, Phase IV Enforcement, Phase V Hearing Review, and Phase VI Annual Report are dependent upon the compliance of the Contractors on each project.

All services listed in the Proposed Method to Accomplish Work, will be provided solely by Alliant Consulting.

CITY OF COVINA
AGENDA ITEM COMMENTARY

MEETING DATE June 2, 2015 **ITEM NO. NB 4**

STAFF SOURCE Amy Hall-McGrade, Parks & Recreation and Library Services Director
Lisa Evans, Parks & Recreation Manager

ITEM TITLE Approve Change Orders Numbers 1-46 for Cougar Park Project #M-1204 completed by GMZ Engineering in the amount of $204,665.33.

STAFF RECOMMENDATION

Approve Change Order Nos. 1-46 for Cougar Park Project #M-1204 reflecting an increase in the construction contract with GMZ Engineering in the amount of $204,665.33.

FISCAL IMPACT

On July 3, 2012, the City Council amended the FY 2012-13 Parks & Recreation Department budget to add $2,125,750 in Proposition 84 revenue (account 46003400-42177) and provide $2,125,750 in expenditure authority (account 46003400-55200) for the Cougar Park project. In addition, on January 21, 2014, the City Council approved $360,000 in Bond Proceeds of the former Covina Redevelopment Agency increasing project funding to $2,485,750. On January 21, 2014, the City Council awarded a construction contract to GMZ Engineering for the Cougar Park project #M-1204 in the amount of $1,880,000. The approval of Change Order Nos. 1-46 would increase the project contract from $1,880,000 to $2,084,665. Sufficient funding for the Change Order Nos. 1-46 is available in the Parks & Recreation budget (account 46003400-55200.

BACKGROUND

At the time of contract award, the Parks & Resources Department did not request a project contingency, necessitating City Council consideration of the following change order requests at this time. As of May, 28, 2015, Parks & Recreation Department staff has reviewed the change orders for completeness and accuracy as to the materials and labor included:

Change Order No.	Amount to Deduct	Amount to Refund	Explanation
1	N/A		200 calendar days were added for alternates
2	$120,000.00		Added alternates approved by Council 1/21/14
3	$34,384.22		Increased the fire and sewer lines to 8 inch diameter
4	$699.11		Added a footing for TS 4x4
5	$2,346.00		Increased metal door gauge
6	$8,352.00		Removed concealed asphalt paving from easement

7	$4,833.00		Changed all pavement to colored stamped concrete
8	$2,823.00		Omitted a 48 inch HDPE infiltration pipe and replaced with IV drainage system
9	$4,420.00		Omitted a catch basin and replaced it with a custom formed reinforced concrete basin
10	$2,694.00		Changed the concrete area around the playground
11	$4,856.00		Added of a deep concrete mow curb along fence line
12	$6,956.00		Created a new dirt swale on west property line from trash enclosure to CVUSD property line
13	$2,323.00		Addition of a concrete gutter in parking area
14	$16,844.00		Removed unknown ivy root, excavation and re-compaction
15	$6,697.00		Revised audio visual equipment
16	$3,302.00		Added wheel stops to parking lot
17	$25,654.00		Omit security system and replaced with Leverage Camera system to be in line with Police Dept.
18	$5,196.00		Modified the concrete paving by family restroom to comply with ADA access
19		$1,295.00	Omitted the trash enclosure metal mesh
20	$9,707.00		Changed electrical fixtures and wiring
21	$1,501.00		Added reinforced raised concrete ring with new frame and grate
22	$2,963.00		Added metal framing grids to ceiling
23		$7,537.00	Omitted the room partitions and ceiling fans
24	$1,527.00		Added 10 bubblers to fruit trees and 5 sprinkler heads to turf area and contract was extended 26 days for LA County splash pad plan review
25	$6,944.00		Added 2 valves, valve boxes and installed special saddle and contract was extended
26	$4,730.00		Added 3 solar tubes to meeting room – also contract was extended
27	$3,695.00		Added copper water service line to splash pad's new location – also contract was extended
28	$1,912.00		Installed condensation lines and contract was extended
29	$2,275.00		Upgraded the light fixtures and contract was extended
30	N/A		Contract extended
31	$4,985.00		Upgraded, per LA County Health Department, the splash pad tank and contract was extended
32	$2,287.00		Extended the reinforced concrete pads, extended chain link fence and one gate
33	$1,173.00		Replaced the base cabinet with doors where sink was planned
34	$1,150.00		Changed the entrance wall sign
35	$2,616.00		Added tile backing to outside wall light fixtures
36	$585.00		Added subwoofers and shelf for AV equip

37	N/A		Contract extended
38	$8,046.00		Added Vitrocem to coat the outside stones
39	$3,955.00		Added a fence to back parking lot with a deep curb
40	$2,956.00		Replaced lighting fixture
41	$1,584.00		Replaced the 20 amp breaker for water heater to a 70 amp breaker
42	$4,605.00		Replaced unavailable seat wall with a new seat wall faced with split face CMU
43	$11,922.00		Modified parking lot finish with DG
44	N/A		Contract extended
45	N/A		Contract extended
46	N/A		Contract extended

EXHIBITS
None.

Respectfully submitted

Amy Hall-McGrade, Director
Parks & Recreation Department