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WATER SYSTEM **IMPROVEMENT** PROGRAM

# **Water System Improvement Program Project Labor Agreement**

## **Quarterly Report Quarter Ended September 30, 2018 (First Quarter FY 2018-2019)**

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San Francisco Public Utilities Commission  
Water System Improvement Program Project Labor Agreement  
Quarterly Report – First Quarter 2018-2019

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**Executive Summary**

Since it was adopted on March 16, 2007 the WSIP Project Labor Agreement (PLA) has promoted the public interest by ensuring the timely and economical completion of WSIP projects. The WSIP PLA has provided the structure to promote efficiency of construction of the WSIP, facilitate the partnership between the SFPUC, Unions, and Contractors, provide for peaceful settlement of labor disputes, and facilitate the employment of residents.

Progress on WSIP construction projects provides employment for construction workers employed by union-signatory and non-union construction contractors. Fifty-four (54) WSIP contracts have been awarded subject to the WSIP PLA in the amount of \$2.162 billion in original contract award through September 30, 2018.

Construction Activity Highlights – Program-to-Date

**Contracting:**

- Fifty-four (54) construction contracts with a value of \$2.162 billion in original contract award have been awarded subject to the WSIP PLA.

**Employment:**

- Since inception, 13,863 construction workers were employed for 8,415,574 hours and earned wages of \$334,894,949 on WSIP PLA-covered projects.
- 1,177 San Francisco residents worked 579,593 hours and earned \$21,949,771 on WSIP PLA-covered projects representing 7% of covered hours and 279 full-time equivalent worker years.
- The SFPUC Regional Service Territory consists of zip codes in seven counties outside of San Francisco, both in the vicinity of WSIP construction and within which the SFPUC delivers water. 5,717 residents of the Regional Service Territory earned wages of \$128,132,078 and worked 3,324,771 hours, representing 40% of covered hours and 1,598 full-time equivalent worker years.
- 14,610 pre-employment substance abuse tests have been administered to employees cleared to work on WSIP PLA-covered projects as of September 30, 2018. 196 people were prevented from working on WSIP PLA-covered projects due to receiving a non-negative result.

Region of Worker Residence	Inception Through September 30, 2018			
	Worker Count	Sum of Hours	Sum of Wages	FTE
All Workers	13,863	8,415,574	\$ 334,894,949	4,046
San Francisco	1,177	579,593	\$ 21,979,771	279
SFPUC Service Territory	5,717	3,324,771	\$ 128,132,078	1,598
Outside	6,969	4,511,210	\$ 184,783,101	2,169

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Construction Activity Highlights – Quarter Ending September 30, 2018

**Contracting:**

- There were no contracts awarded during the reporting period.

**Employment:**

- 426 construction workers were employed for 78,376 hours and earned wages of \$3,419,667 on WSIP PLA-covered projects.
- 44 San Francisco residents worked 3,340 hours and earned wages of \$150,255 on WSIP PLA-covered projects.
- The SFPUC Regional Service Territory consists of zip codes in seven counties outside of San Francisco, both in the vicinity of WSIP construction and within which the SFPUC delivers water. During this quarter, 152 residents of the Regional Service Territory worked 37,455 hours and earned wages of \$1,598,806 on WSIP PLA-covered projects.
- 82 pre-employment substance abuse screenings were administered under the provisions of the WSIP PLA Substance Abuse Policy and one individual was prevented from working as the result of a positive test.

**Summary of Craft Worker Employment**

Region of Worker Residence	Three Months Ending September 30,2018			
	Worker Count	Sum of Hours	Sum Of Wages	FTE*
All Workers	426	78,376	\$ 3,419,667	38
San Francisco	44	3,340	\$ 150,255	2
SFPUC Service Territory	152	37,455	\$ 1,598,806	18
Outside	230	37,581	\$ 1,670,605	18

\*FTE is the abbreviation for Full Time Equivalent. Since the workers on the projects may only work a few hours or days on the project, this is a way to determine the number of full time positions created. It is found by taking the Sum of Hours divided by 2,080, the conventional value for total hours worked per year based on a 40-hour work week.

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**Summary of WSIP PLA-Covered Contract Awards**

Sorted by Award Date

Construction Contracts Awarded Subject to the WSIP-PLA					
Inception through September 30, 2018					
Award Date	Contract No.	Prime Contractor	Project	Engineer's Estimate	Award \$
05/09/17	WD-2776*	S.J. Amoroso Construction Co., Inc.	San Francisco Westside Recycled Water Treatment Facility	\$70 to 80 Million	\$ 87,597,000
01/24/17	WD-2809*	Western Water Constructors, Inc.	San Francisco Groundwater Supply Phase 2	\$11.2 Million	\$ 9,780,000
11/08/16	WD-2798*	JMB CONSTRUCTION INC	San Francisco Westside Recycled Water Pipeline	\$28.6 Million	\$ 21,729,720
01/12/16	WD-2729	Shimmick Construction	Fish Passage Facilities Within the Alameda Creek Watershed	\$30 Million	\$ 28,939,300
10/27/15	WD-2654R	NTK Construction	Peninsula Vegetation Removal	\$10.8 Million	\$ 11,062,544
01/13/15	WD-2621R*	Western Water Constructors, Inc.	San Francisco Groundwater Supply Well Stations	\$16 Million	\$ 14,955,100
01/13/15	WD-2668	Ranger Pipelines Inc	Regional Groundwater Storage and Recovery	\$50 Million	\$ 42,980,047
05/27/14	WD-2622*	Ranger Pipelines Inc	San Francisco Groundwater Supply Pipeline	\$13.6 Million	\$ 8,676,685
01/28/14	WD-2727	Ranger Pipelines Inc	Peninsula Pipeline Seismic Upgrade	\$22.5 Million	\$ 20,736,380
01/22/13	WD-2575	Ranger Pipelines Inc	San Antonio Backup Pipeline	\$34 to \$38 Million	\$ 31,372,335
06/26/12	WD-2627R*	S.J.Amoroso	Sutro Reservoir Rehabilitation	\$28 to \$36 Million	\$ 27,453,000
06/26/12	WD-2666	Shimmick Construction	Bioregional Habitat Restoration, Sheep Camp Creek	\$2.7 Million	\$ 3,912,500
06/12/12	WD-2629	Steve P. Rados	Bay Division Pipeline 3&4 at the Hayward Fault	\$49 to \$54 Million	\$ 31,320,000
04/23/12	WD-2651R	Shimmick Construction	Peninsula 2011 Watershed Compensation, Sherwood Park	\$5.9 to \$6.7 Million	\$ 5,591,750
12/13/11	HH-953	Azul Works, Inc.	Tesla Portal Protection	\$2.4 Million	\$ 2,760,000
12/13/11	WD-2600*	Road Runner Drilling	Regional Groundwater Storage and Recovery-Test Well C	\$3.6 to \$4.2 Million	\$ 2,998,685
12/13/11	WD-2665	Steve P. Rados	Cordilleras Micro Tunnel	\$5.8 Million	\$ 5,251,100
11/08/11	WD-2652	Gordon N. Ball, Inc	Bioregional Habitat Restoration, San Antonio Creek	\$13 Million	\$ 12,947,400
09/13/11	WD-2641R	Yerba Buena Engineering	Habitat Reserve Program, Homestead Pond, San Andreas	\$6.4 Million	\$ 6,499,000
06/28/11	WD-2640	Yerba Buena Engineering	Bioregional Habitat Restoration - Goldfish Pond	\$2.4 Million	\$ 3,188,000
06/14/11	HH-935C	Contri Constmction,	San Joaquin Pipeline System - Eastern Segment	\$52 to \$57 Million	\$ 45,329,416
05/24/11	WD-2551	Dragados/Flatiron/Sukut JV	Calaveras Dam Replacement Project,	\$250 to \$300 Million	\$ 259,571,850
01/27/11	WD-2596	Kiewit Infrastructure West	Harry Tracy Water Treatment Plant Long-Term	\$220 to \$245 Million	\$ 174,197,000
01/11/11	WD-2555	Ranger Pipelines Inc	Crystal Springs Pipeline No.2	\$43 to \$48 Million	\$ 32,547,350
12/14/10	HH-935B	Mountain Cascade, Inc	San Joaquin Pipeline - Western Segment	\$70 Million	\$ 48,706,379
12/14/10	WD-2591	Kiewit Infrastructure West	Lower Crystal Springs Dam Improvements	\$18 to \$22 Million	\$ 17,360,400
09/14/10	WD-2601	Kiewit Infrastructure West	Crystal Springs / San Andreas Upgrade	\$100 to \$130 Million	\$ 99,763,000
09/14/10	WD-2623*	R & W Concrete	Harding Park Recycled Water Project	\$6.5 Million	\$ 5,251,100
06/08/10	WD-2581	Southland/Tutor Perini JV	New Irvington Tunnel	\$230 to \$260 Million	\$ 226,657,700
04/27/10	WD-2582	Shimmick Construction	Sunol Valley Water Treatment Plant	\$109 Million	\$ 83,102,160
04/13/10	HH-935A	West Bay Builders	San Joaquin Pipeline System - Crossovers	\$21.6 Million	\$ 11,723,817
12/18/09	WD-2531	Michels/JayDee/Coluccio, JV	Bay Tunnel	\$235 to \$260 Million	\$ 215,294,530
12/08/09	WD-2542	Mountain Cascade,	Bay Division Pipeline No. 5 - Peninsula Reaches	\$62 to \$69 Million	\$ 52,183,400
10/27/09	WD-2541	Ranger Pipelines Inc	Bay Division Pipeline Reliability Upgrade-East Bay	\$88 to \$98 Million	\$ 61,558,005
10/27/09	WD-2589	Ranger Pipelines Inc	Supervisory Control and Data Acquisition Phase II	\$10.6 Million	\$ 3,847,250
09/22/09	WD-2573	S.J.Amoroso	Pulgas Reservoir Structural Rehabilitation	\$14 to \$18 Million	\$ 12,857,000
09/08/09	WD-2566	Mountain Cascade	San Antonio Pump Station Upgrades Project	\$8.5 to \$9.5 Million	\$ 6,991,000
07/14/09	HH-914R	Mountain Cascade	Roselle Crossover Improvements	\$3.1 Million	\$ 2,837,000
06/23/09	WD-2513	Mountain Cascade	San Andreas Pipeline No.3 Installation Project	\$20 to \$25 Million	\$ 16,336,350
06/23/09	WD-2539*	S.J. Amoroso	University Mound Reservoir North Basin	\$47 to \$52 Million	\$ 29,597,000
05/26/09	WD-2552	Steve P. Rados	Alameda Siphon No. 4 Project	\$45.5 Million	\$ 31,933,695
04/28/09	WD-2568	Shimmick Construction	BDPL Nos. 3&4 Crossover Facilities	\$21.5 Million	\$ 12,695,000
04/17/09	WD-2548*	Western Water	Lake Merced Pump Station Essential Upgrades	\$52 to \$60 Million	\$ 31,584,000
03/10/09	CS-936*	VSI Meter Services	Advanced Meter Infrastructure	\$62.8 Million	\$ 62,822,980
02/24/09	WD-2556	JMB Construction	Baden and San Pedro Valve Lot Improvements	\$15 to \$18 Million	\$ 11,536,500
12/09/08	WD-2529*	KJ Woods	Noe Valley Transmission Main- Phase 2	\$6 to \$8 Million	\$ 5,724,000
10/14/08	WD-2498	Shank/Balfour-Beatty	New Crystal Springs Bypass Tunnel	\$55 to \$65 Million	\$ 55,674,000
09/23/08	DB-116	PCL Constructors	Tesla Treatment Facility	\$90 Million	\$ 81,420,562
09/09/08	WD-2543*	Shaw Pipeline Inc.	North University Mound System Upgrade	\$15 to \$18 Million	\$ 13,529,370
05/27/08	WD-2564	NTK Construction	Harry Tracy Water Treatment Plant-Short Term	\$15 to \$18 Million	\$ 13,824,000
12/11/07	WD-2469*	Cal State Constructors	Forest Knolls Pump Station and Storage Tank	\$5.5 to \$7 Million	\$ 6,547,000
12/07/07	WD-2501*	Monterey Mechanical	Alemany Pump Station	\$18 to \$22 Million	\$ 23,269,000
11/13/07	WD-2511	Power Engineering	Standby Power Facilities, Various Locations	\$5.7 Million	\$ 8,419,000
06/26/07	WD-2504*	S.J. Amoroso	Stanford Heights Reservoir Seismic Retrofit	\$18 to \$24 Million	\$ 17,899,960
<b>Total 54 Projects</b>					<b>\$ 2,162,341,320</b>

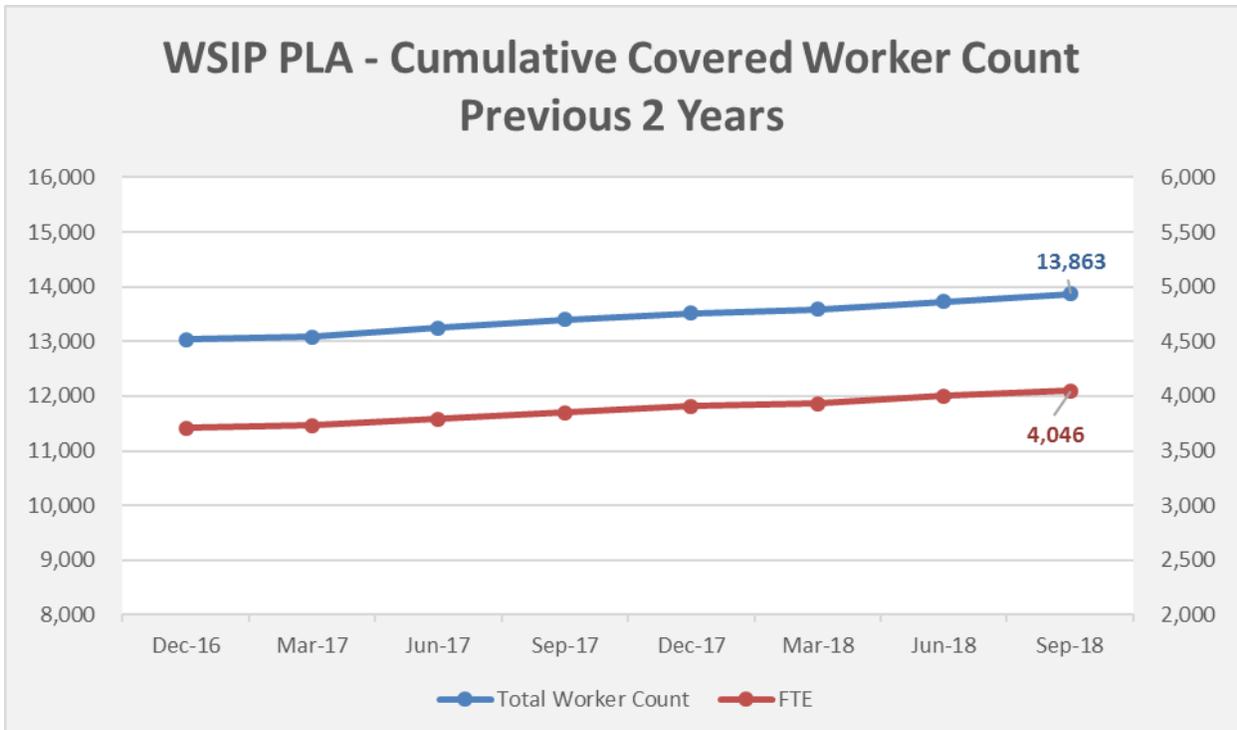
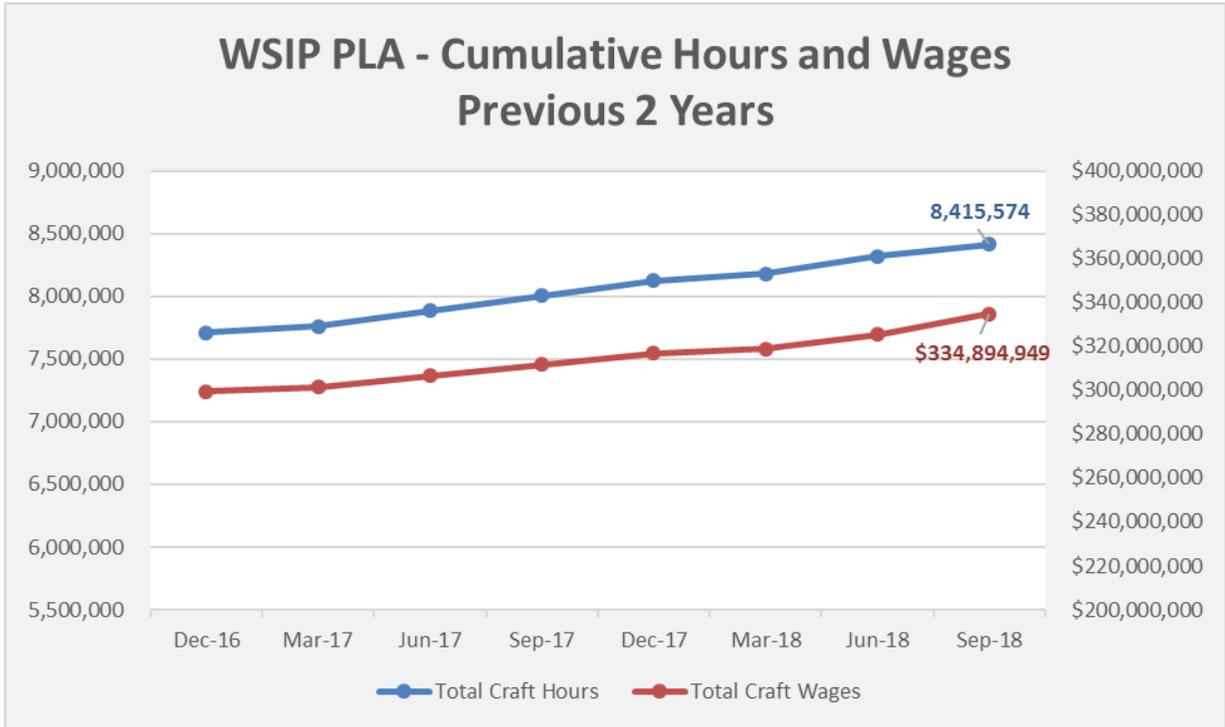
\* Indicates projects located in San Francisco

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**Summary Charts**

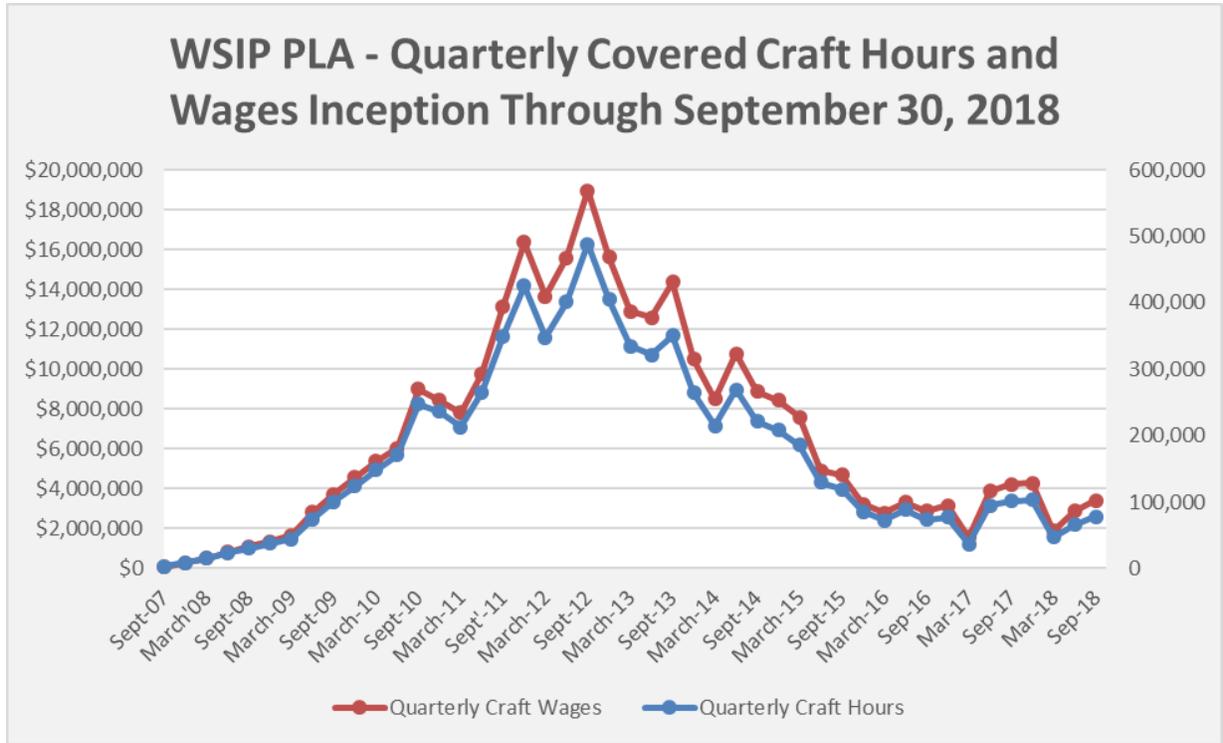
From the inception of the WSIP Project Labor Agreement in March 2007 through the current quarter ending September 30, 2018; 13,863 workers on WSIP PLA-covered projects have achieved a cumulative total of 8,415,574 craft hours and \$334,894,949 in craft wages.

The tables below describe the progressive accumulation of these totals over the past two years.

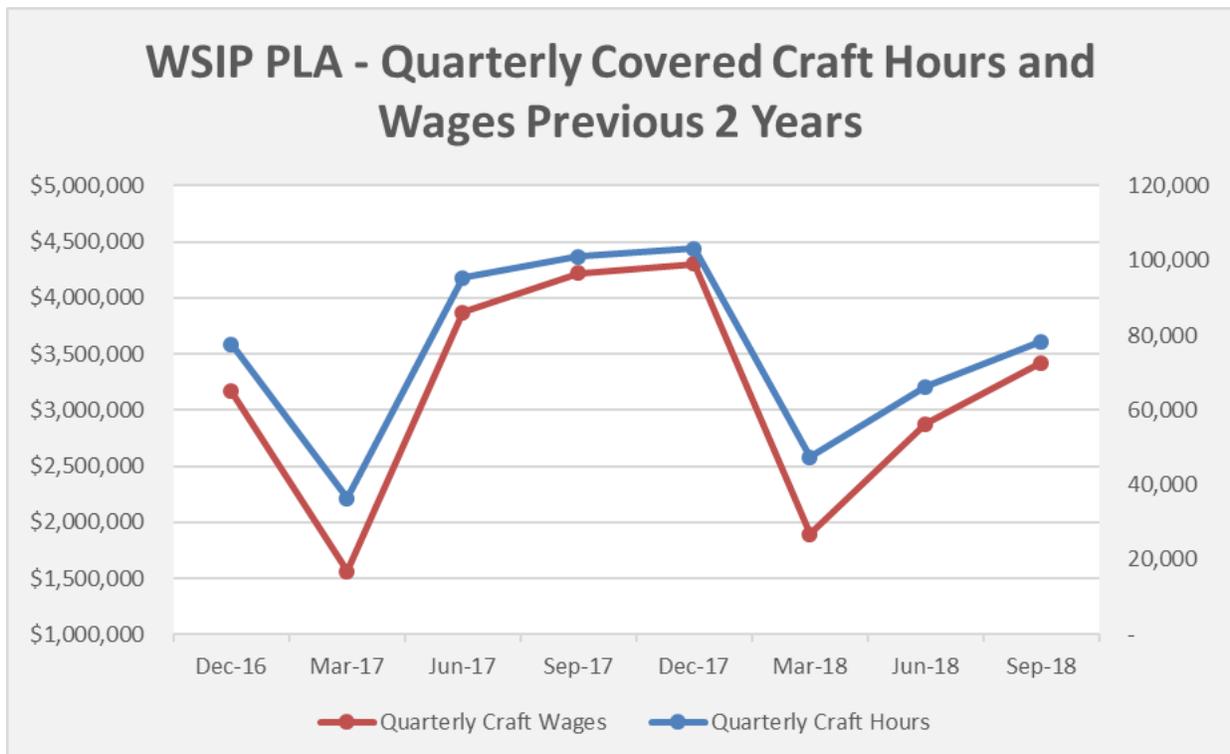


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The top chart on this page illustrates the values recorded *during* each quarter since inception. With the program surpassing 90% total completion, Craft Hours have and will likely continue to trend down until total completion.



The chart below represents a close-up of the one above; highlighting the past two years.



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**Craft Utilization on WSIP PLA-Covered Projects**

As of September 30, 2018, contractors reported craft hours in 54 craft worker classifications that the SFPUC summarizes into 30 craft areas.

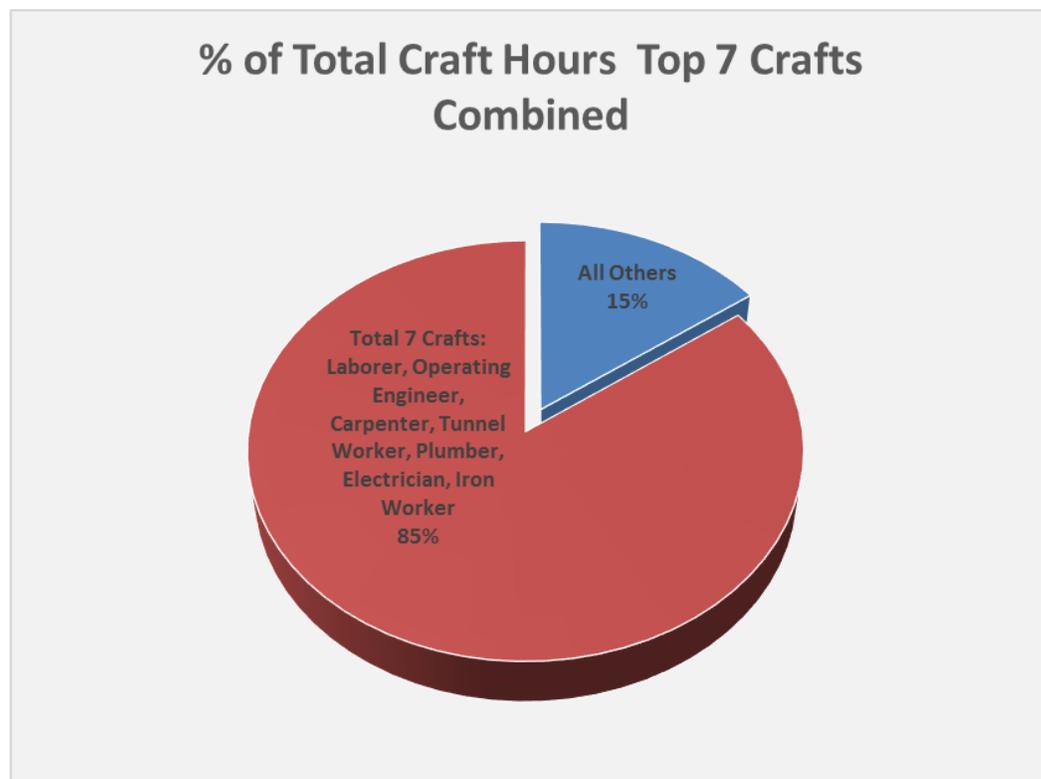
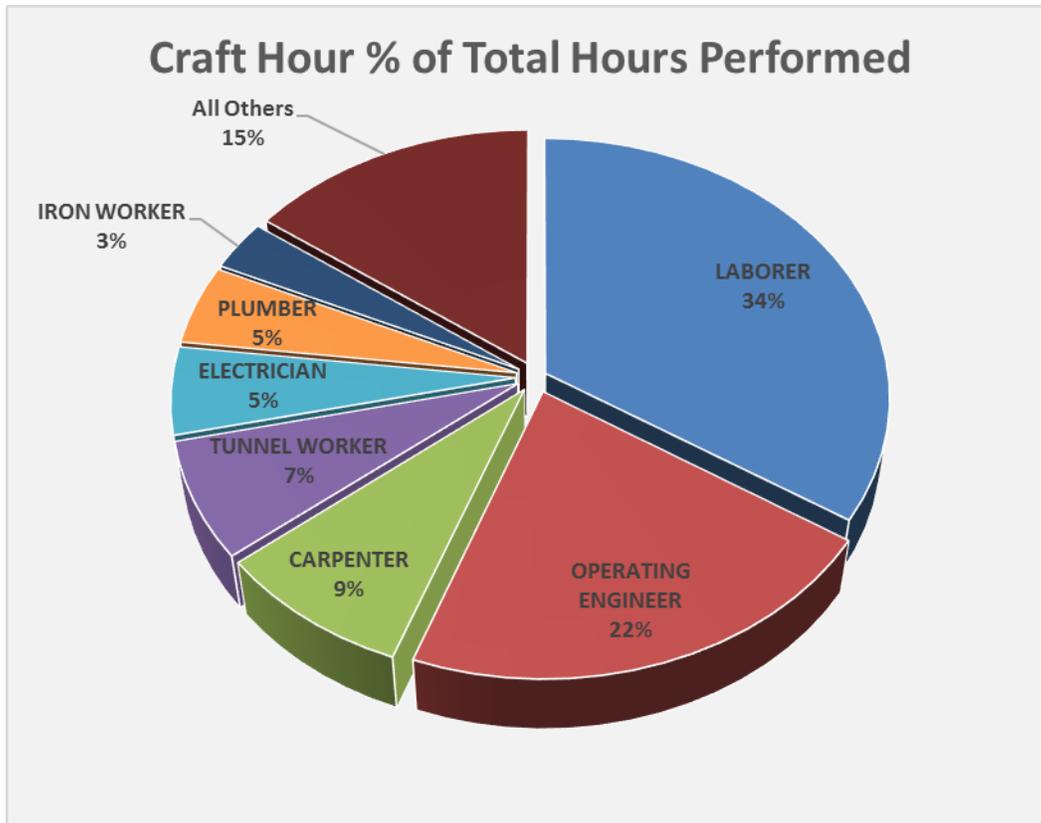
Illustrated here and in the following pages, Laborers, Operating Engineers, Carpenters, and Tunnel Workers, respectively, represent the majority of WSIP PLA craft workers to date. The Plumbers craft numbers include the Advanced Meter Infrastructure (AMI) project which was almost completely performed by Plumbers.

Sorted by Total Craft Hours

<b>Cumulative Employment by Craft</b>					
Inception Through September 30, 2018					
Craft	Total Hours	Total Wages	% Craft Hours of Total Hours	% Wages of Total Wages	FTE
Laborer	2,879,435	\$ 89,089,378	34.2%	26.6%	1,384
Operating Engineer	1,811,153	\$ 75,925,288	21.5%	22.7%	871
Carpenter	725,931	\$ 30,670,952	8.6%	9.2%	349
Tunnel Worker	612,964	\$ 26,175,557	7.3%	7.8%	295
Electrician	459,827	\$ 24,233,512	5.5%	7.2%	221
Plumber	417,349	\$ 19,503,434	5.0%	5.8%	201
Iron Worker	265,807	\$ 9,159,733	3.2%	2.7%	128
<b>Top 7 Sub-Total</b>	<b>7,172,466</b>	<b>\$ 274,757,853</b>	<b>85.2%</b>	<b>82.0%</b>	<b>3,448</b>
Pile Driver	180,015	\$ 9,602,784	2.1%	2.9%	87
Painter	145,110	\$ 5,667,444	1.7%	1.7%	70
Cement Mason	126,881	\$ 4,461,175	1.5%	1.3%	61
Boilermaker	119,116	\$ 6,273,157	1.4%	1.9%	57
Building/Construction Inspector	84,415	\$ 4,816,416	1.0%	1.4%	41
Roofer	47,879	\$ 1,620,921	0.6%	0.5%	23
Field Surveyor	21,256	\$ 1,225,431	0.3%	0.4%	10
Sheet Metal Worker	18,179	\$ 860,884	0.2%	0.3%	9
Drywall Installer/Lather	10,796	\$ 458,160	0.1%	0.1%	5
Bricklayer	8,592	\$ 327,839	0.1%	0.1%	4
Electrical Utility Lineman	6,797	\$ 417,708	0.1%	0.1%	3
Plasterer	6,148	\$ 217,377	0.1%	0.1%	3
Glazier	4,347	\$ 214,828	0.1%	0.1%	2
Metal Roofing Systems Installer	2,586	\$ 92,217	0.0%	0.0%	1
Brick Tender	882	\$ 29,919	0.0%	0.0%	0
Asbestos Worker, Heat and Frost Insu	628	\$ 36,516	0.0%	0.0%	0
Carpet Layer	354	\$ 16,311	0.0%	0.0%	0
Tile Setter	351	\$ 12,929	0.0%	0.0%	0
Tile Finisher	277	\$ 5,836	0.0%	0.0%	0
Terrazzo Worker	199	\$ 8,163	0.0%	0.0%	0
Driver	182	\$ 19,110	0.0%	0.0%	0
Marble Finisher	40	\$ 1,342	0.0%	0.0%	0
Terrazzo Finisher	4	\$ 160	0.0%	0.0%	0
<b>Remaining Apprenticeable Sub-Total</b>	<b>785,031</b>	<b>\$ 36,386,627</b>	<b>9.3%</b>	<b>10.9%</b>	<b>377</b>
<b>Total Non-Apprenticeable</b>	<b>458,078</b>	<b>\$ 23,750,469</b>	<b>5.4%</b>	<b>7.1%</b>	<b>220</b>
<b>Total WSIP-Covered by PLA</b>	<b>8,415,574</b>	<b>\$ 334,894,949</b>	<b>100.0%</b>	<b>100.0%</b>	<b>4,046</b>

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This chart summarizes WSIP PLA-covered craft employment for trades with the largest number of craft hours as of September 30, 2018. Laborers, Operating Engineers, Carpenters, and Tunnel Workers combined represent 72% of craft hours worked on PLA-covered projects.



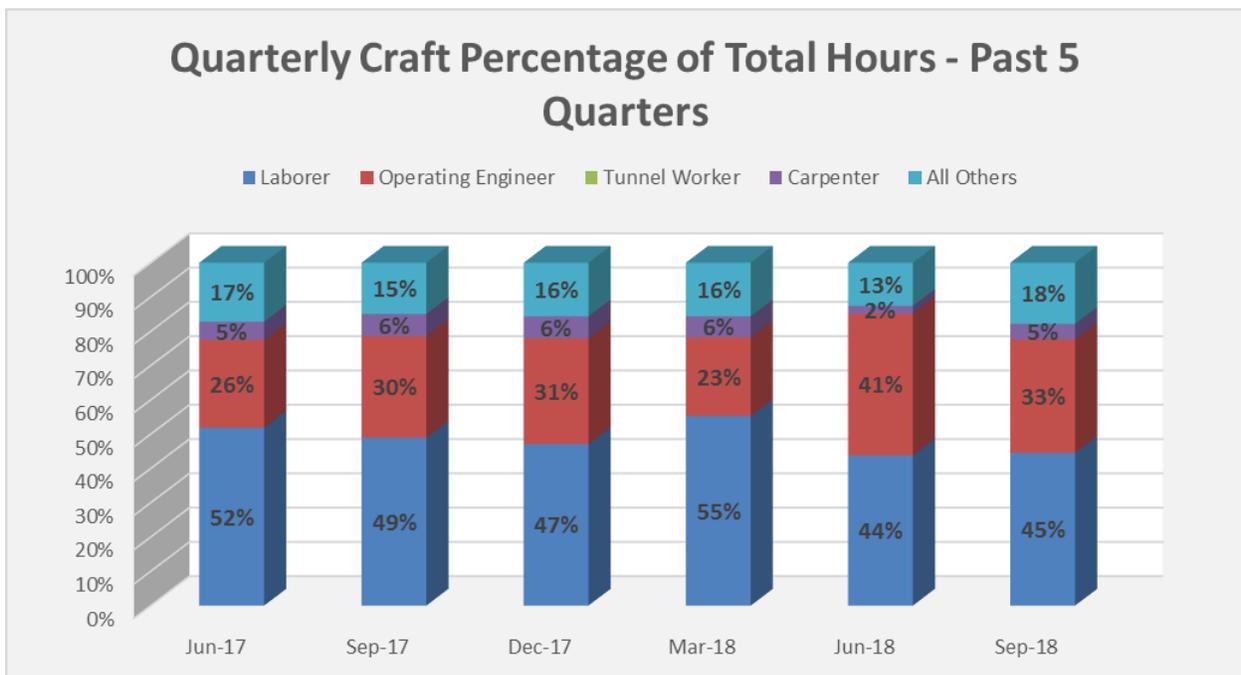
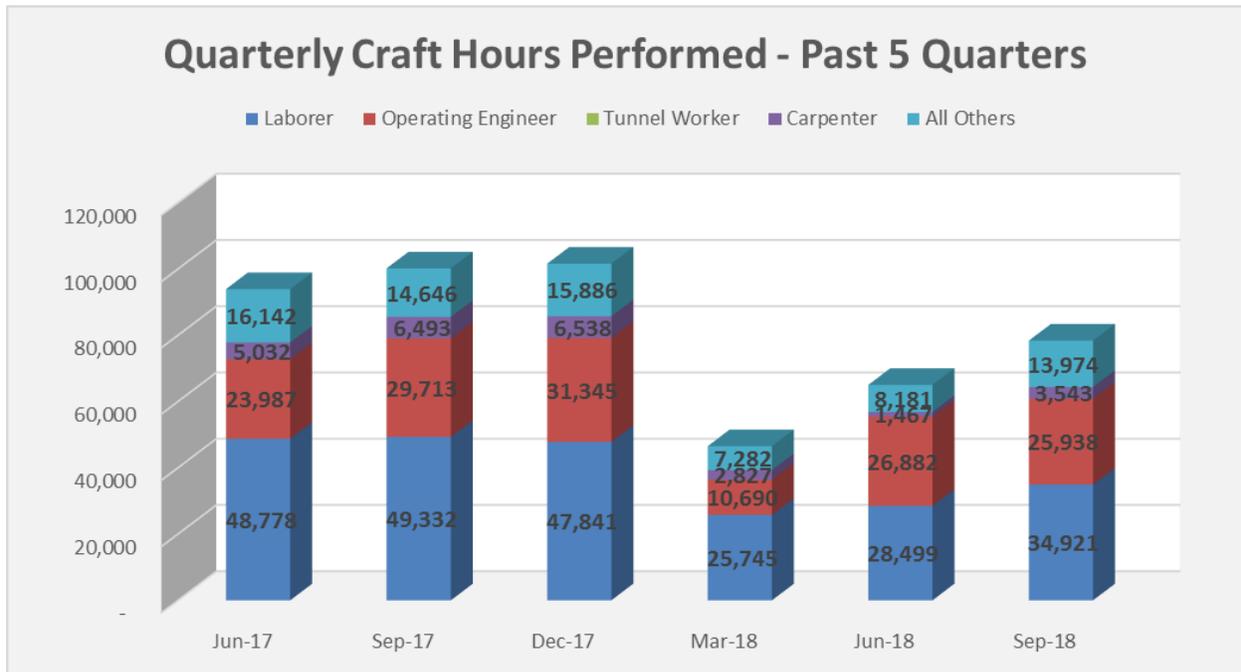
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The table below reflects the values of hours and wages for each trade cumulatively since the inception of the WSIP and the most recent reporting period.

Craft	Total Cumulative Hours	Total Cumulative Wages	Quarter Ending 9-30-2018 Hours	Quarter Ending 9-30-2018 Wages
Laborer	2,879,435	\$ 89,089,378	34,921	\$ 1,286,483
Operating Engineer	1,811,153	\$ 75,925,288	25,938	\$ 1,298,794
Carpenter	725,931	\$ 30,670,952	3,543	\$ 176,118
Tunnel Worker	612,964	\$ 26,175,557	-	\$ -
Electrician	459,827	\$ 24,233,512	4,191	\$ 228,738
Plumber	417,349	\$ 19,503,434	175	\$ 12,196
Iron Worker	265,807	\$ 9,159,733	1,135	\$ 44,865
Pile Driver	180,015	\$ 9,602,784	1,354	\$ 78,923
Painter	145,110	\$ 5,667,444	404	\$ 16,647
Cement Mason	126,881	\$ 4,461,175	765	\$ 33,867
Boilermaker	119,116	\$ 6,273,157	28	\$ 1,291
Building/Construction Inspector	84,415	\$ 4,816,416	3,137	\$ 127,963
Roofer	47,879	\$ 1,620,921	4	\$ 152
Field Surveyor	21,256	\$ 1,225,431	426	\$ 18,664
Sheet Metal Worker	18,179	\$ 860,884	3	\$ 194
Drywall Installer/Lather	10,796	\$ 458,160	-	\$ -
Bricklayer	8,592	\$ 327,839	18	\$ 727
Electrical Utility Lineman	6,797	\$ 417,708	-	\$ -
Plasterer	6,148	\$ 217,377	1,117	\$ 43,047
Glazier	4,347	\$ 214,828	-	\$ -
Metal Roofing Systems Installer	2,586	\$ 92,217	-	\$ -
Brick Tender	882	\$ 29,919	55	\$ 1,963
Asbestos Worker, Heat and Frost Insulator	628	\$ 36,516	-	\$ -
Carpet Layer	354	\$ 16,311	-	\$ -
Tile Setter	351	\$ 12,929	-	\$ -
Tile Finisher	277	\$ 5,836	-	\$ -
Terrazzo Worker	199	\$ 8,163	-	\$ -
Driver	182	\$ 19,110	-	\$ -
Marble Finisher	40	\$ 1,342	-	\$ -
Terrazzo Finisher	4	\$ 160	-	\$ -
<b>Total</b>	<b>7,957,496</b>	<b>\$ 311,144,480</b>	<b>77,212</b>	<b>\$ 3,370,633</b>
Teamster	135,017	\$ 6,372,932	1,164	\$ 49,034
Driver (On/Off-Hauling To/From Construction Site)	97,691	\$ 7,270,512	-	\$ -
Operating Engineer (Heavy And Highway Work) (Special)	95,289	\$ 4,512,513	-	\$ -
Tunnel/Underground (Operating Engineer-Heavy And Highway Work)	79,393	\$ 3,676,393	-	\$ -
Asbestos Removal Worker (Laborer)	17,057	\$ 435,487	-	\$ -
Tunnel/Underground (Operating Engineer-Heavy And Highway Work)	13,201	\$ 590,532	-	\$ -
Water Well Driller	12,313	\$ 608,914	-	\$ -
Tree Trimmer (High Voltage Line Clearance)	1,422	\$ 36,006	-	\$ -
Telecommunications Technician	1,160	\$ 37,245	-	\$ -
Landscape Maintenance Laborer	1,131	\$ 32,404	-	\$ -
Steel Erector And Fabricator (Operating Engineer - Heavy And Highway Work)	1,123	\$ 56,467	-	\$ -
Traffic Control/Lane Closure (Laborer)	888	\$ 31,991	-	\$ -
Dredger Operating Engineer	831	\$ 33,307	-	\$ -
Operating Engineer (Building Construction)	635	\$ 24,810	-	\$ -
Slurry Seal Worker	592	\$ 17,811	-	\$ -
Parking And Highway Improvement Painter (Painter)	247	\$ 10,082	-	\$ -
Ironworker (Db)	80	\$ 2,772	-	\$ -
Teamster (Special Single Shift Rate)	11	\$ 291	-	\$ -
<b>Total Non-Apprenticeable</b>	<b>458,078</b>	<b>\$ 23,750,469</b>	<b>1,164</b>	<b>\$ 49,034</b>
<b>Total Apprenticable</b>	<b>7,957,496</b>	<b>\$ 311,144,480</b>	<b>77,212</b>	<b>\$ 3,370,633</b>
<b>Total WSIP PLA</b>	<b>8,415,574</b>	<b>\$ 334,894,949</b>	<b>78,376</b>	<b>\$ 3,419,667</b>

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The charts below represent *Quarterly* participation of the largest four participating trade categories and all others combined on WSIP PLA-covered projects.

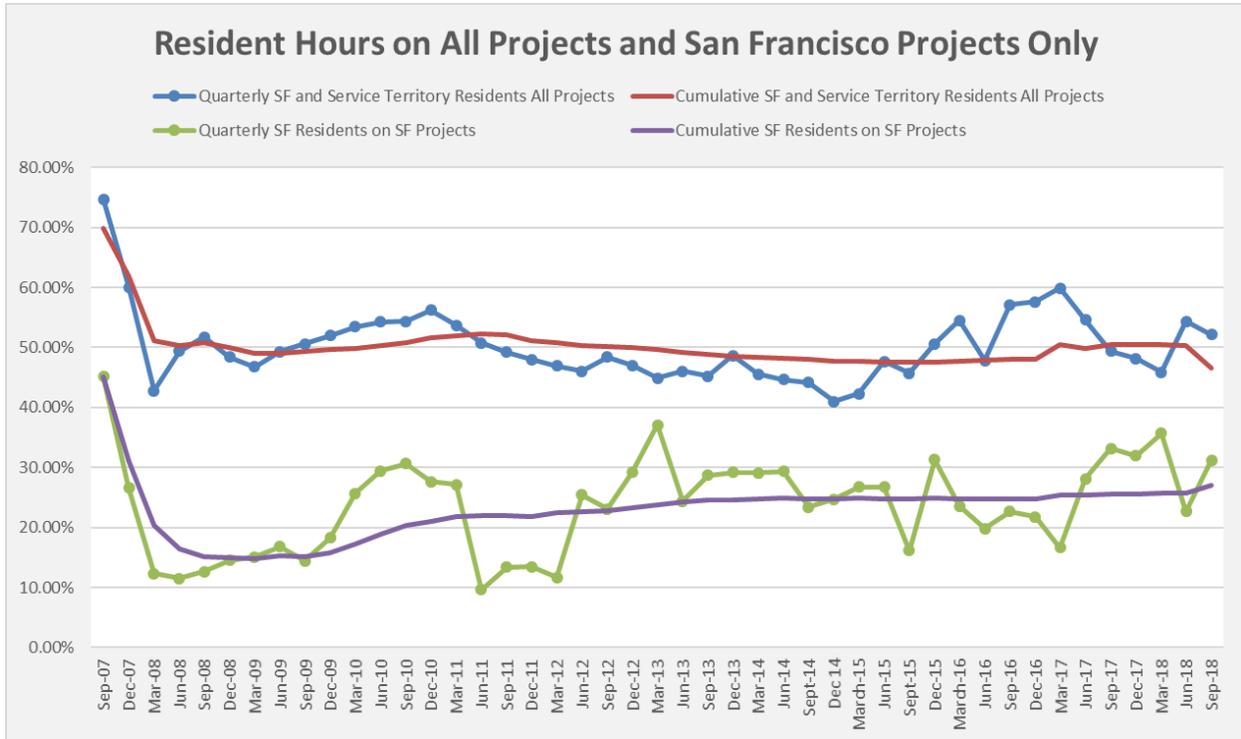


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**Worker Residence on the WSIP PLA**

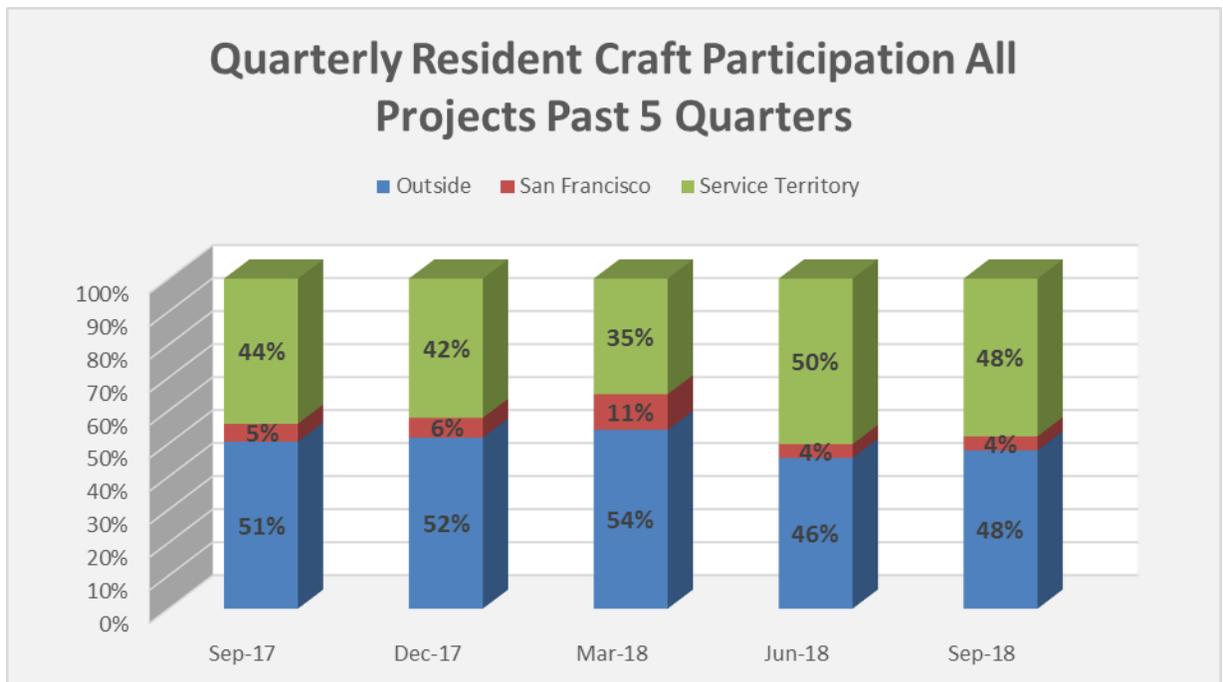
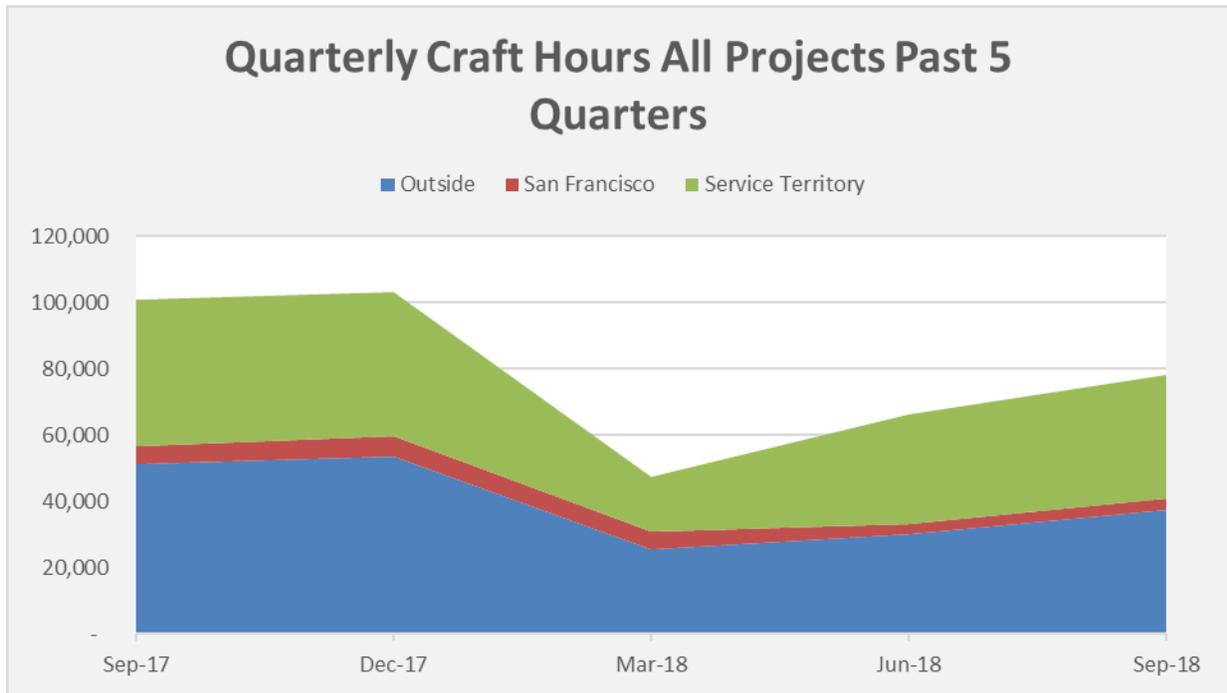
The Regional Service Territory, covering seven counties, is defined as zip codes outside San Francisco and within which the SFPUC delivers wholesale water, in addition to zip codes impacted by WSIP construction.

The following chart summarizes the employment percentages of residents of San Francisco and the Regional Service Territory on WSIP PLA-covered projects through September 30, 2018.



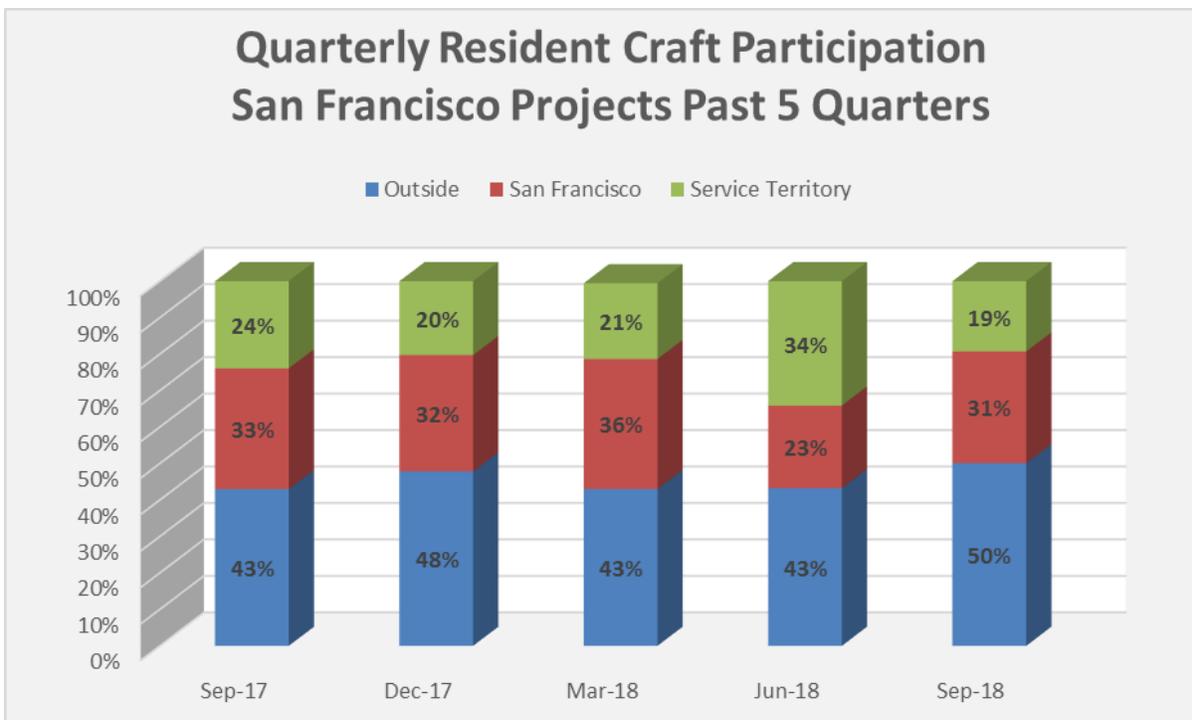
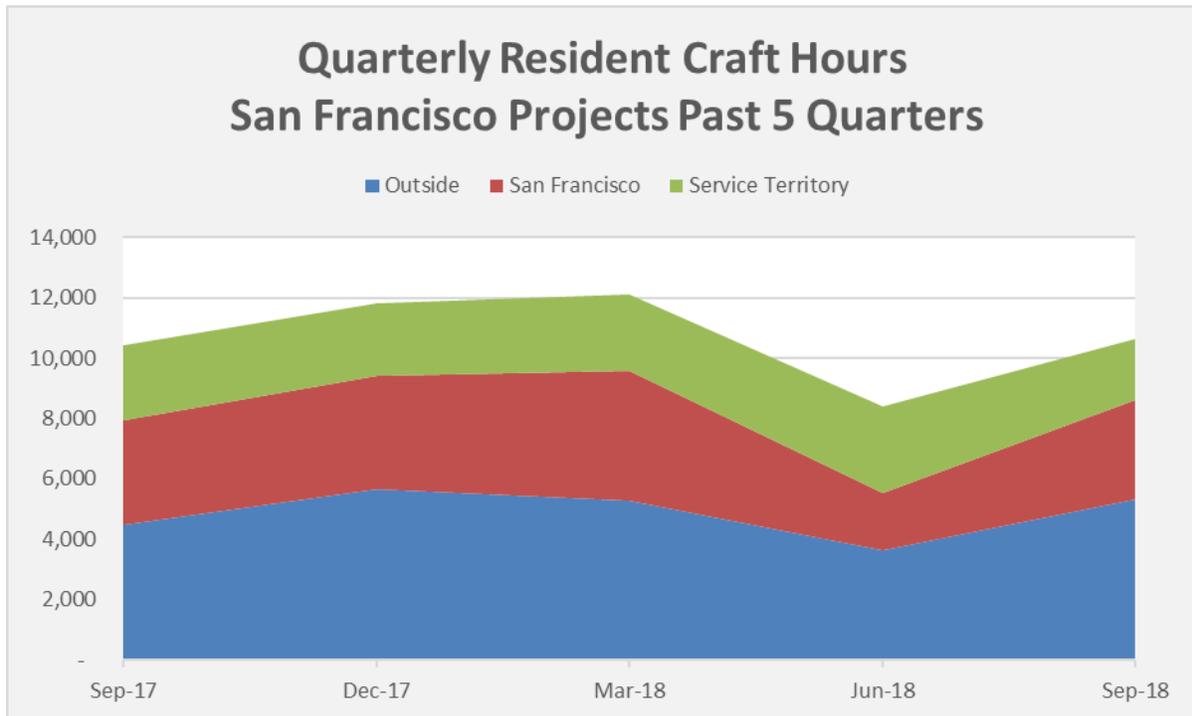
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**Residence on ALL WSIP PLA Projects** - Charted are 54 of the 54 total projects covered under the WSIP PLA within San Francisco and the Service Territory.



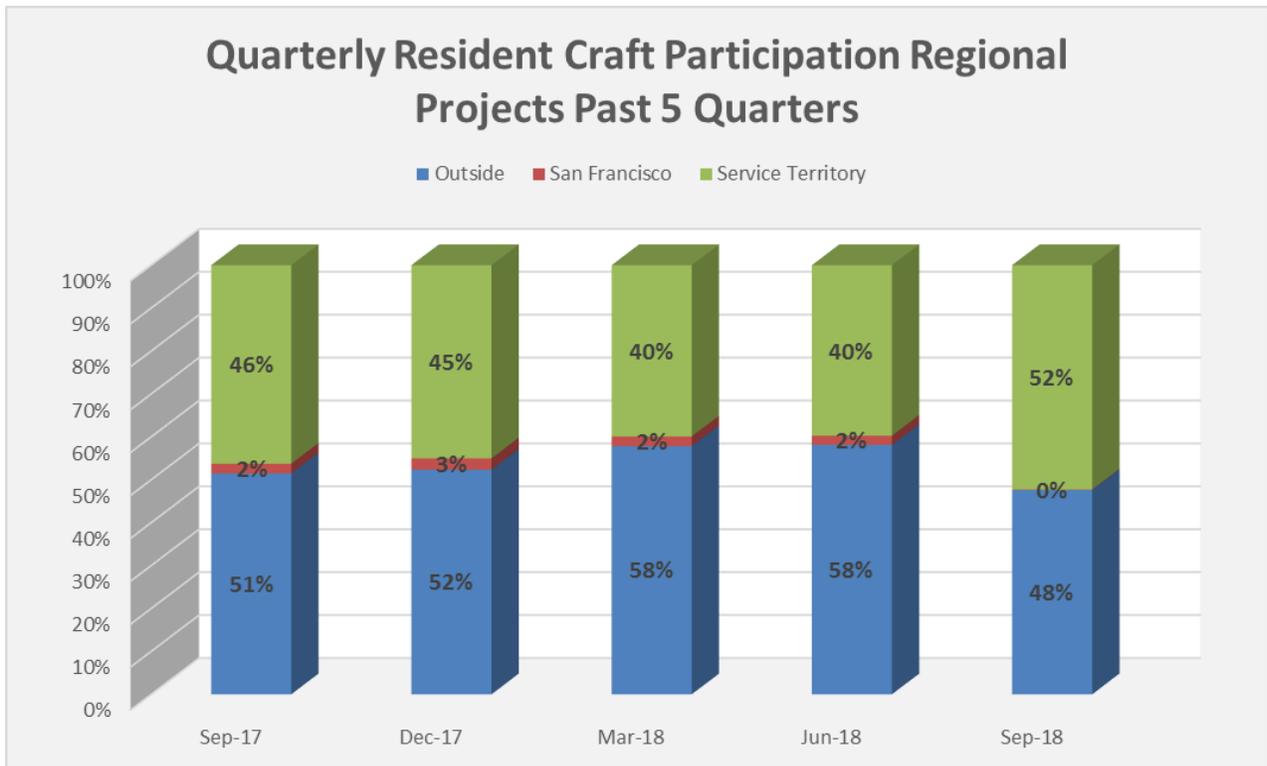
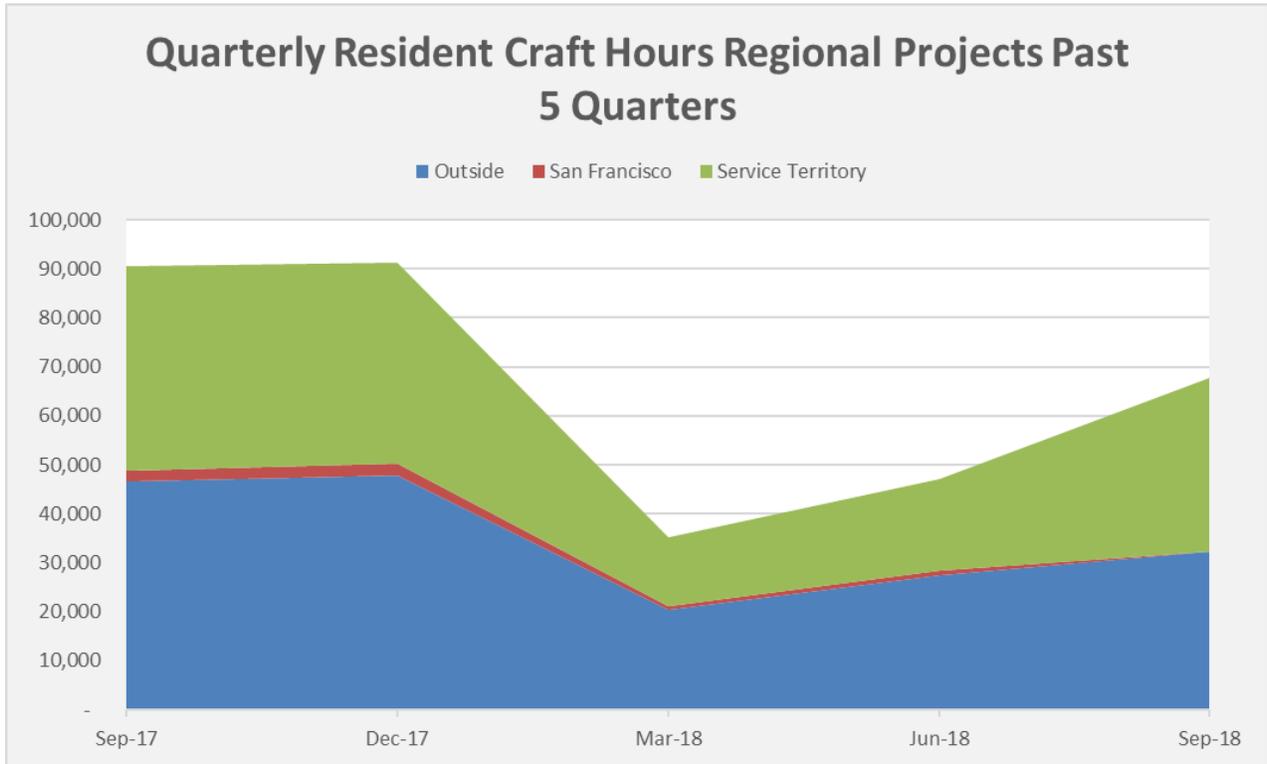
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**Residence on San Francisco-located WSIP PLA Projects** - Charted are the 16 projects covered by the WSIP PLA located within San Francisco only.



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**Residence on Regionally-located WSIP PLA Projects** - Charted are the 38 projects covered by the WSIP PLA located within the Regional Service Territory.



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**Residence by County**

Sorted by Total Craft Hours

<b>WSIP-PLA Employment by Top 20 Counties of Residence</b>					
Inception Through September 30,2018					
County	Total Craft Hours	Wages	% Craft Hours	Worker Count	FTE
Alameda	1,498,968	\$ 55,988,217	17.8%	2,720	721
Contra Costa	1,192,934	\$ 46,973,687	14.2%	1,838	574
San Joaquin	819,712	\$ 30,949,864	9.7%	1,165	394
San Mateo	725,320	\$ 29,366,429	8.6%	1,161	349
<b>San Francisco</b>	<b>579,593</b>	<b>\$ 21,979,771</b>	<b>6.9%</b>	<b>1,177</b>	<b>279</b>
Santa Clara	435,542	\$ 17,371,800	5.2%	1,188	209
Solano	422,356	\$ 16,933,180	5.0%	798	203
Stanislaus	377,628	\$ 13,977,182	4.5%	579	182
Sacramento	341,764	\$ 13,948,998	4.1%	564	164
Butte	211,886	\$ 8,378,231	2.5%	126	102
Sonoma	182,057	\$ 7,342,296	2.2%	319	88
Placer	109,574	\$ 4,961,294	1.3%	125	53
Calaveras	101,489	\$ 4,512,688	1.2%	78	49
Tuolumne	99,353	\$ 3,848,634	1.2%	97	48
El Dorado	85,765	\$ 3,638,450	1.0%	84	41
Los Angeles	71,488	\$ 3,227,785	0.8%	125	34
Yolo	71,075	\$ 2,967,124	0.8%	88	34
Shasta	68,268	\$ 3,162,790	0.8%	44	33
Riverside	65,935	\$ 3,119,415	0.8%	111	32
Clark	61,915	\$ 2,831,513	0.7%	72	30
<b>Top 20 Counties by Hours</b>	<b>7,522,619</b>	<b>\$ 295,479,346</b>	<b>89.4%</b>	<b>12,459</b>	<b>3,617</b>
All Other Counties	902,943	\$ 39,415,603	10.7%	1,404	434
<b>WSIP-PLA Total</b>	<b>8,415,574</b>	<b>\$ 334,894,949</b>	<b>100.0%</b>	<b>13,863</b>	<b>4,046</b>

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**San Francisco Residents by Zip Code**

Sorted by Total Craft Hours

<b>Employment by San Francisco Zip Code</b>					
Inception Through September 30, 2018					
San Francisco Zip Codes	Total Workers				
	Total Craft Hours	Wages	% Total Craft Hours	Worker Count	FTE
94112	111,369	\$ 3,869,504	19.2%	192	54
94124	97,419	\$ 3,824,082	16.8%	240	47
94116	82,738	\$ 3,837,820	14.3%	78	40
94110	76,452	\$ 2,635,706	13.2%	162	37
94134	39,651	\$ 1,203,495	6.8%	110	19
94122	30,443	\$ 1,381,814	5.3%	60	15
94103	23,639	\$ 719,272	4.1%	35	11
94121	19,417	\$ 773,581	3.4%	46	9
94118	14,929	\$ 734,235	2.6%	21	7
94127	13,409	\$ 551,813	2.3%	20	6
94117	10,681	\$ 290,551	1.8%	17	5
94132	10,503	\$ 427,998	1.8%	29	5
94102	8,508	\$ 376,250	1.5%	19	4
94107	8,428	\$ 321,182	1.5%	23	4
94131	6,509	\$ 198,398	1.1%	21	3
94109	4,686	\$ 146,169	0.8%	19	2
94114	4,094	\$ 174,029	0.7%	14	2
94133	3,524	\$ 143,848	0.6%	7	2
94130	3,095	\$ 64,996	0.5%	9	1
94108	2,918	\$ 64,629	0.5%	6	1
94142	1,740	\$ 68,149	0.3%	7	1
94115	1,693	\$ 54,573	0.3%	22	1
94111	915	\$ 21,546	0.2%	3	0
94123	561	\$ 28,323	0.1%	2	0
94104	523	\$ 13,179	0.1%	3	0
94129	447	\$ 14,182	0.1%	1	0
94188	366	\$ 9,790	0.1%	3	0
94140	288	\$ 11,589	0.0%	1	0
94119	255	\$ 7,976	0.0%	1	0
94105	194	\$ 4,910	0.0%	1	0
94147	162	\$ 4,785	0.0%	1	0
94125	21	\$ 768	0.0%	1	0
94158	16	\$ 362	0.0%	2	0
94164	6	\$ 264	0.0%	1	0
<b>Total</b>	<b>579,593</b>	<b>\$ 21,979,771</b>	<b>100.0%</b>	<b>1,177</b>	<b>279</b>
<b>WSIP-PLA Total</b>	<b>8,415,574</b>	<b>\$ 334,894,949</b>	<b>-</b>	<b>13,863</b>	<b>4,046</b>

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**Residence by Craft**

Sorted by Total Hours

Cumulative Employment of Residents By Craft Inception Through September 30, 2018							
Craft	Total Hours	San Francisco Hours	SFPUC Service Territory Hours	Outside Hours	% San Francisco Hours	% Service Territory Hours	% Outside Hours
Operating Engineer	1,811,153	63,880	638,789	1,108,484	3.5%	35.3%	61.2%
Carpenter	725,931	84,248	298,218	343,465	11.6%	41.1%	47.3%
Tunnel Worker	612,964	11,171	208,750	393,043	1.8%	34.1%	64.1%
Electrician	459,827	23,118	247,002	189,707	5.0%	53.7%	41.3%
Plumber	417,349	87,648	137,873	191,827	21.0%	33.0%	46.0%
Iron Worker	265,807	17,864	101,951	145,992	6.7%	38.4%	54.9%
Pile Driver	180,015	6,526	53,970	119,519	3.6%	30.0%	66.4%
Painter	145,110	9,471	16,596	119,043	6.5%	11.4%	82.0%
Cement Mason	126,881	9,627	54,496	62,759	7.6%	43.0%	49.5%
Boilermaker	119,116	48	22,939	96,129	0.0%	19.3%	80.7%
Building/Construction Inspector	84,415	3,947	11,895	68,574	4.7%	14.1%	81.2%
Roofer	47,879	4,157	24,899	18,824	8.7%	52.0%	39.3%
Field Surveyor	21,256	1,345	4,029	15,882	6.3%	19.0%	74.7%
Sheet Metal Worker	18,179	2,217	10,217	5,746	12.2%	56.2%	31.6%
Drywall Installer/Lather	10,796	4,138	1,796	4,863	38.3%	16.6%	45.0%
Bricklayer	8,592	82	4,060	4,450	1.0%	47.3%	51.8%
Electrical Utility Lineman	6,797	-	186	6,611	0.0%	2.7%	97.3%
Plasterer	6,148	2,928	1,124	2,097	47.6%	18.3%	34.1%
Glazier	4,347	1,028	1,395	1,925	23.6%	32.1%	44.3%
Metal Roofing Systems Installer	2,586	39	2,252	296	1.5%	87.1%	11.4%
Brick Tender	882	287	19	576	32.5%	2.2%	65.3%
Asbestos Worker, Heat and Frost Insulation	628	-	197	431	0.0%	31.4%	68.6%
Carpet Layer	354	111	89	154	31.4%	25.1%	43.5%
Tile Setter	351	-	344	7	0.0%	98.0%	2.0%
Tile Finisher	277	-	237	40	0.0%	85.6%	14.4%
Terrazzo Worker	199	-	-	199	0.0%	0.0%	100.0%
Driver	182	182	-	-	100.0%	0.0%	0.0%
Marble Finisher	40	-	40	-	0.0%	100.0%	0.0%
Terrazzo Finisher	4	-	4	-	0.0%	100.0%	0.0%
<b>Total Apprenticeable</b>	<b>5,078,061</b>	<b>334,058</b>	<b>1,843,364</b>	<b>2,900,639</b>	<b>6.6%</b>	<b>36.3%</b>	<b>57.1%</b>
LABORER	2,879,435	218,940	1,244,872	1,415,623	7.6%	39.8%	58.5%
<b>Non-Apprenticeable</b>							
Teamster	135,017	9,147	79,315	46,554	6.8%	58.7%	34.5%
Driver (On/Off-Hauling To/From Construction Site)	97,691	16,246	65,652	15,793	16.6%	67.2%	16.2%
Operating Engineer (Heavy And Highway Construction)	95,289	-	38,906	56,383	0.0%	40.8%	59.2%
Tunnel/Underground (Operating Engineer)	79,393	70	34,872	44,451	0.1%	43.9%	56.0%
Asbestos Removal Worker (Laborer)	17,057	951	2,161	13,945	5.6%	12.7%	81.8%
Tunnel/Underground (Operating Engineer)	13,201	-	3,832	9,369	0.0%	29.0%	71.0%
Water Well Driller	12,313	-	7,177	5,136	0.0%	58.3%	41.7%
Tree Trimmer (High Voltage Line Clearance)	1,422	32	1,191	199	2.3%	83.8%	14.0%
Telecommunications Technician	1,160	-	1,088	72	0.0%	93.8%	6.2%
Landscape Maintenance Laborer	1,131	16	614	501	1.4%	54.3%	44.3%
Steel Erector And Fabricator (Operator)	1,123	-	282	841	0.0%	25.1%	74.9%
Traffic Control/Lane Closure (Laborer)	888	-	691	198	0.0%	77.8%	22.2%
Dredger Operating Engineer	831	-	-	831	0.0%	0.0%	100.0%
Operating Engineer (Building Construction)	635	133	229	273	20.9%	36.1%	43.0%
Slurry Seal Worker	592	-	337	255	0.0%	56.9%	43.1%
Parking And Highway Improvement Personnel	247	-	165	82	0.0%	66.8%	33.2%
Ironworker (Db)	80	-	24	56	0.0%	30.0%	70.0%
Teamster (Special Single Shift Rate)	11	-	-	11	0.0%	0.0%	100.0%
<b>Total Non-Apprenticeable</b>	<b>458,078</b>	<b>26,595</b>	<b>236,535</b>	<b>194,947</b>	<b>5.8%</b>	<b>51.6%</b>	<b>42.6%</b>
<b>Total WSIP PLA</b>	<b>8,415,574</b>	<b>579,593</b>	<b>3,324,771</b>	<b>4,511,210</b>	<b>6.9%</b>	<b>39.5%</b>	<b>53.6%</b>

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**Residence by Project**

Sorted by Total Hours

Employment Summary - Cumulative Employment of Residents by Project							
Craft Employment Summary Through September 30, 2018							
Project	Total Hours	San Francisco Hours	Service Territory Hours	Outside Hours	% San Francisco Hours	% SFPUC Service Territory Hours	% Outside Hours
WD-2551 - Calaveras Dam Replacem	1,465,518	4,646	533,265	927,607	0.3%	36.4%	63.3%
WD-2596 - HTWTP Long-Term Improv	1,013,848	49,559	368,135	596,155	4.9%	36.3%	58.8%
WD-2581 - New Irvington Tunnel	730,536	4,132	319,860	406,545	0.6%	43.8%	55.7%
WD-2531 - Bay Division Pipelines Relia	583,318	15,154	257,574	310,590	2.6%	44.2%	53.2%
WD-2601 - Crystal Springs / San Andre	489,160	25,325	193,302	270,533	5.2%	39.5%	55.3%
WD-2582 - Sunol Valley Water Treatme	462,423	9,292	174,479	278,653	2.0%	37.7%	60.3%
WD-2542 - Bay Division Pipeline No. 5	288,044	5,836	129,660	152,548	2.0%	45.0%	53.0%
CS-936 - AMI	227,027	78,220	83,691	65,115	34.5%	36.9%	28.7%
WD-2541 - Bay Division Pipeline No. 5	208,058	13,608	85,977	108,472	6.5%	41.3%	52.1%
WD-2539 - University Mound Reservoir	187,016	49,450	51,060	86,507	26.4%	27.3%	46.3%
WD-2627R - Sutro Reservoir Rehabilitat	154,545	49,147	39,763	65,635	31.8%	25.7%	42.5%
WD-2729 - Fish Passage Facilities - Al	153,474	1,144	66,036	86,294	0.7%	43.0%	56.2%
WD-2668 - Regional Groundwater Stora	152,770	25,689	76,875	50,206	16.8%	50.3%	32.9%
HH-935C - San Joaquin Pipeline - East	143,988	83	80,508	63,397	0.1%	55.9%	44.0%
DB-116 - Tesla Treatment Facility	141,910	3,122	93,841	44,948	2.2%	66.1%	31.7%
WD-2629 - Seismic Upgrade of Bay Div	134,349	1,815	52,403	80,131	1.4%	39.0%	59.6%
WD-2552 - Alameda Siphon No. 4 Proj	129,485	1,450	54,019	74,017	1.1%	41.7%	57.2%
WD-2555 - Crystal Springs Pipeline No	127,763	31,147	36,395	60,221	24.4%	28.5%	47.1%
WD-2498 - New Crystal Springs Bypass	117,821	9,557	64,371	43,894	8.1%	54.6%	37.3%
WD-2652 - BHR - San Antonio Creek	110,655	3,693	45,574	61,388	3.3%	41.2%	55.5%
WD-2548 - Lake Merced Pump Station	101,050	28,541	25,790	46,720	28.2%	25.5%	46.2%
HH-935B - San Joaquin Pipeline - West	100,492	111	41,614	58,767	0.1%	41.4%	58.5%
WD-2591 - Lower Crystal Springs Dam	98,562	5,463	52,743	40,356	5.5%	53.5%	40.9%
HH-935A - San Joaquin Pipeline - Cross	84,483	223	45,318	38,942	0.3%	53.6%	46.1%
WD-2513 - San Andreas Pipeline No.3	83,503	6,978	28,219	48,306	8.4%	33.8%	57.8%
WD-2575 - San Antonio Backup Pipelin	75,263	8,780	31,767	34,716	11.7%	42.2%	46.1%
WD-2504 - Stanford Heights Reservoir S	74,294	14,461	20,361	39,472	19.5%	27.4%	53.1%
WD-2501 - Alemany Pump Station	74,085	8,629	29,073	36,382	11.6%	39.2%	49.1%
WD-2727 - Peninsula Pipeline Seismic	69,772	13,891	23,679	32,203	19.9%	33.9%	46.2%
WD-2543 - North University Mound Sys	53,265	13,940	14,613	24,713	26.2%	27.4%	46.4%
WD-2621R - SF Groundwater Supply W	52,378	14,641	8,923	28,815	28.0%	17.0%	55.0%
WD-2573 - Pulgas Balancing Reservoir	50,367	6,669	25,461	18,237	13.2%	50.6%	36.2%
WD-2568 - BDPL Nos. 3&4 Crossover P	47,910	4,201	13,222	30,486	8.8%	27.6%	63.6%
WD-2641R - Habitat Reserve Program	44,018	8,771	10,167	25,081	19.9%	23.1%	57.0%
WD-2564 - HTWTP - Short Term Improv	43,049	8,445	15,208	19,397	19.6%	35.3%	45.1%
WD-2798 - SF Westside Recycled Wat	37,812	11,783	12,363	13,666	31.2%	32.7%	36.1%
WD-2654R - Peninsula Vegetation Rem	30,464	4,839	9,727	15,897	15.9%	31.9%	52.2%
WD-2469 - Forest Knolls Pump Station	26,553	6,156	5,766	14,631	23.2%	21.7%	55.1%
WD-2666 - BHR - Sheep Camp Creek	23,492	46	6,377	17,069	0.2%	27.1%	72.7%
WD-2623 - Harding Park Recycled Wat	22,727	4,776	12,625	5,327	21.0%	55.6%	23.4%
WD-2651R - Peninsula 2011 Watershed	22,569	557	10,940	11,072	2.5%	48.5%	49.1%
WD-2529 - Noe Valley Transmission M	22,511	6,853	7,279	8,379	30.4%	32.3%	37.2%
WD-2665 - Bav Division Pipeline No. 5,	21,967	227	5,528	16,213	1.0%	25.2%	73.8%
WD-2556 - Baden and San Pedro Valve	19,939	2,720	15,270	1,949	13.6%	76.6%	9.8%
WD-2622 - SF Groundwater Supply Pip	17,782	3,487	2,138	12,157	19.6%	12.0%	68.4%
WD-2776 - SF Westside Recycled Wat	17,563	6,126	4,931	6,507	34.9%	28.1%	37.0%
WD-2566 - San Antonio Pump Station	14,916	101	11,948	2,868	0.7%	80.1%	19.2%
HH-914R - Roselle Crossover Improvem	12,859	-	8,861	3,999	0.0%	68.9%	31.1%
HH-953 - Tesla Portal Protection	11,512	3,338	6,185	1,990	29.0%	53.7%	17.3%
WD-2511 - Standby Power Facilities	11,275	281	6,500	4,494	2.5%	57.6%	39.9%
WD-2640 - Bioregional Habitat Restorat	10,621	667	4,028	5,926	6.3%	37.9%	55.8%
WD-2809 - SF Groundwater Supply Pha	9,231	1,463	705	7,064	15.8%	7.6%	76.5%
WD-2600 - Regional Groundwater Stora	6,088	-	296	5,792	0.0%	4.9%	95.1%
WD-2589 - SCADA System Phase II	1,498	368	363	767	24.6%	24.2%	51.2%
<b>Total WSIP PLA</b>	<b>8,415,574</b>	<b>579,593</b>	<b>3,324,771</b>	<b>4,511,210</b>	<b>6.9%</b>	<b>39.5%</b>	<b>53.6%</b>

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**Apprentice Utilization**

The WSIP PLA supports the apprentice ratios provided by the State of California’s, Division of Apprenticeship Standards, generally one apprentice hour to every five journey-level hours.

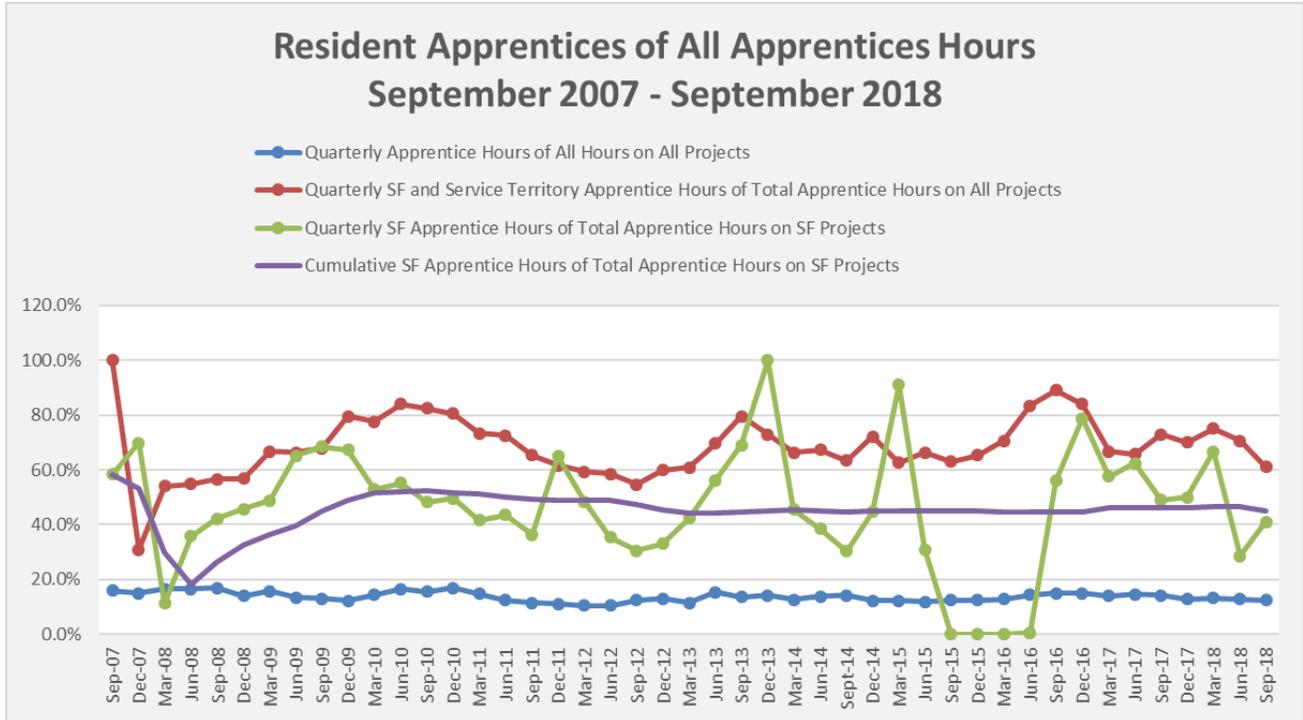
Through the end of the current quarter, 13.3% of craft hours in apprenticeable trades have been worked by apprentices. 16% of apprentice hours were worked by San Francisco residents and 54% were worked by residents of the Regional Service Territory, or 70% combined.

Sorted by Total Craft Hours

Craft	Total Hours	Total Apprentice Hours	Apprentice Hours			Apprentice Utilization			Resident Apprentice %		
			San Francisco Hours	SFPUC ST Hours	Outside Hours	Apprentice % of Total Craft Hours	San Francisco Apprentice % of Total Craft Hours	Service Territory Apprentice % of Total Craft Hours	% of Craft Apprentice Hours Performed by San Francisco Residents	% of Craft Apprentice Hours Performed by Service Territory Residents	% of Craft Apprentice Hours Performed by Outside Residents
A - Operating Engineer	1,811,153	206,624	25,276	85,082	96,267	11.4%	1.4%	4.7%	12.2%	41.2%	46.6%
A - Carpenter	725,931	114,462	29,994	54,740	29,728	15.8%	4.1%	7.5%	26.2%	47.8%	26.0%
A - Tunnel Worker	612,964	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Electrician	459,827	86,158	9,264	61,357	15,538	18.7%	2.0%	13.3%	10.8%	71.2%	18.0%
A - Plumber	417,349	115,145	33,812	56,994	25,339	27.6%	8.1%	13.4%	29.4%	48.6%	22.0%
A - Iron Worker	265,807	59,182	10,676	26,531	21,975	22.3%	4.0%	10.0%	18.0%	44.8%	37.1%
A - Pile Driver	180,015	18,563	4,451	9,825	4,287	10.3%	2.5%	5.5%	24.0%	52.9%	23.1%
A - Painter	145,110	25,037	1,693	6,247	17,097	17.3%	1.2%	4.3%	6.8%	25.0%	68.3%
A - Cement Mason	126,881	5,903	3,659	1,094	1,151	4.7%	2.9%	0.9%	62.0%	18.5%	19.5%
A - Boilermaker	119,116	2,354	40	1,238	1,076	2.0%	0.0%	1.0%	1.7%	52.6%	45.7%
A - Building/Construction Inspector	84,415	3,765	5	1,242	2,518	4.5%	0.0%	1.5%	0.1%	33.0%	66.9%
A - Roofer	47,879	11,822	1,914	5,176	4,732	24.7%	4.0%	10.8%	16.2%	43.8%	40.0%
A - Field Surveyor	21,256	841	11	164	666	4.0%	0.1%	0.8%	1.3%	19.5%	79.2%
A - Sheet Metal Worker	18,179	2,877	293	1,555	1,030	15.8%	1.6%	8.6%	10.2%	54.0%	35.8%
A - Drywall Installer/Lather	10,796	473	60	283	130	4.4%	0.6%	2.6%	12.7%	59.8%	27.5%
A - Bricklayer	8,592	2,682	82	573	2,027	31.2%	1.0%	6.7%	3.1%	21.3%	75.6%
A - Electrical Utility Lineman	6,797	79	-	79	-	1.2%	0.0%	1.2%	0.0%	100.0%	0.0%
A - Plasterer	6,148	347	136	211	-	5.6%	2.2%	3.4%	39.2%	60.8%	0.0%
A - Glazier	4,347	564	402	20	142	13.0%	9.2%	0.5%	71.3%	3.5%	25.2%
A - Metal Roofing Systems Installer	2,586	757	-	757	-	29.3%	0.0%	29.3%	0.0%	100.0%	0.0%
A - Brick Tender	882	24	24	-	-	2.7%	2.7%	0.0%	100.0%	0.0%	0.0%
A - Asbestos Worker, Heat and Frost	628	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Carpet Layer	354	27	-	23	4	7.6%	0.0%	6.5%	0.0%	85.2%	14.8%
A - Tile Setter	351	20	-	20	-	5.7%	0.0%	5.7%	0.0%	0.0%	0.0%
A - Tile Finisher	277	40	-	-	40	14.4%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Terrazzo Worker	199	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Driver	182	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Marble Finisher	40	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Terrazzo Finisher	4	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sub-Total Apprenticeable	5,078,061	657,744	121,790	312,209	223,747	13.0%	2.4%	6.1%	18.5%	47.5%	34.0%
A - Laborer	2,879,435	397,752	43,935	258,689	95,128	13.8%	1.5%	9.0%	11.0%	65.0%	23.9%
Total Apprenticeable	7,957,496	1,055,496	165,725	570,898	318,875	13.3%	2.1%	7.2%	15.7%	54.1%	30.2%
Total Non-Apprenticeable	458,078	-	-	-	-	-	-	-	-	-	-
Total WSIP - Covered by PLA	8,415,574	-	-	-	-	-	-	-	-	-	-

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For the three months ending September 30, 2018, 41% of apprentice hours were worked by San Francisco resident apprentices on San Francisco-located WSIP PLA projects (green line). As the WISP program comes to a close, there are fewer opportunities for apprentices to perform work on projects resulting in the decrease of apprentice participation.



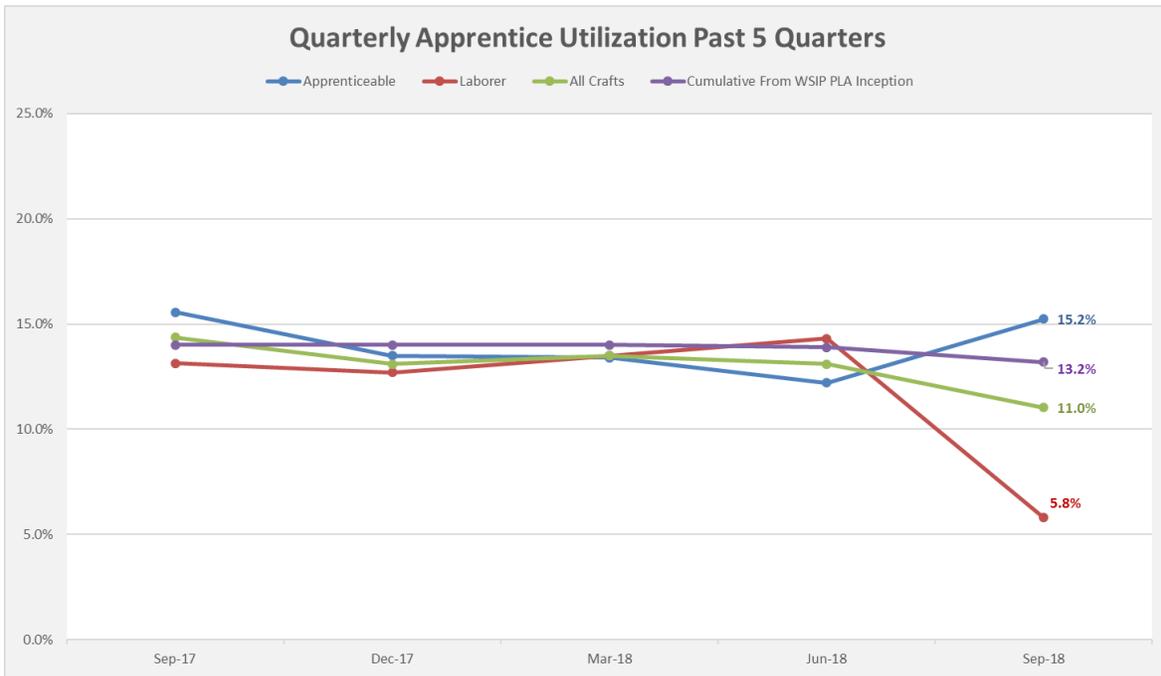
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The table below lists the WSIP PLA-covered Projects *sorted by Percentage of Apprentice Utilization* from highest to lowest. The total Apprentice Utilization for the entire WSIP is 13.2%.

<b>WSIP - Covered by PLA Apprentice Utilization By Project</b>											
Inception Through September 30, 2018											
Project	Apprentice Utilization By Project										
	All Workers Hours					Apprentice Hours			Apprentice Utilization %		
	Total Craft Hours	Total Hours of Apprenticeable Trades	Total Non-Apprenticeable Hours	Total Laborer Hours	Total Apprenticeable and Laborer Hours	Apprenticeable Trades Hours	Apprentice Laborer Hours	Total Apprentice Hours	Apprenticeable Trades %	Apprentice Laborer %	Total Apprentice %
CS-936 - AMI	227,027	226,142	-	885	227,027	79,373	-	79,373	35.1%	0.0%	35.0%
WD-2729 - Fish Passage Facilities - Ala	153,474	102,372	6,045	45,057	147,429	23,368	4,357	27,725	22.8%	9.7%	18.8%
WD-2504 - Stanford Heights Reservoir S	74,294	40,444	-	33,851	74,294	9,134	757	9,891	22.6%	2.2%	13.3%
WD-2539 - University Mound Reservoir S	187,016	106,316	1,199	79,502	185,818	23,851	6,500	30,350	22.4%	8.2%	16.3%
WD-2573 - Pulgas Balancing Reservoir S	50,367	35,362	310	14,695	50,056	7,144	673	7,817	20.2%	4.6%	15.6%
WD-2627R - Sutro Reservoir Rehabilitati	154,545	77,338	8,900	68,308	145,645	15,391	5,248	20,639	19.9%	7.7%	14.2%
WD-2641R - Habitat Reserve Program	44,018	7,406	52	36,561	43,966	1,467	7,755	9,222	19.8%	21.2%	21.0%
WD-2668 - Regional Groundwater Stora	152,770	95,303	1,079	56,387	151,690	18,403	7,231	25,634	19.3%	12.8%	16.9%
WD-2798 - SF Westside Recycled Wate	37,812	6,637	-	31,175	37,812	1,170	6,061	7,231	17.6%	19.4%	19.1%
HH-914R - Roselle Crossover Improve	12,859	7,968	163	4,729	12,697	1,384	559	1,943	17.4%	11.8%	15.3%
DB-116 - Tesla Treatment Facility	141,910	97,738	1,863	42,310	140,047	16,580	10,411	26,991	17.0%	24.6%	19.3%
WD-2469 - Forest Knolls Pump Station	26,553	17,167	49	9,337	26,504	2,888	19	2,907	16.8%	0.2%	11.0%
WD-2582 - Sunol Valley Water Treatme	462,423	293,860	13,009	155,554	449,414	49,266	19,350	68,616	16.8%	12.4%	15.3%
WD-2596 - HTWTP Long-Term Improvem	1,013,848	675,958	39,423	298,468	974,425	108,428	35,995	144,423	16.0%	12.1%	14.8%
WD-2651R - Peninsula 2011 Watershed	22,569	4,777	3,239	14,554	19,331	763	2,372	3,135	16.0%	16.3%	16.2%
WD-2589 - SCADA System Phase II	1,498	728	-	771	1,498	115	-	115	15.8%	0.0%	7.7%
WD-2640 - Bioregional Habitat Restorati	10,621	4,487	813	5,321	9,809	701	914	1,615	15.6%	17.2%	16.5%
WD-2552 - Alameda Siphon No. 4 Projec	129,485	75,401	8,009	46,075	121,476	11,667	9,053	20,720	15.5%	19.6%	17.1%
WD-2555 - Crystal Springs Pipeline No.	127,763	49,074	9,731	68,958	118,032	7,559	5,394	12,953	15.4%	7.8%	11.0%
WD-2548 - Lake Merced Pump Station	101,050	72,875	1,672	26,504	99,378	10,670	137	10,807	14.6%	0.5%	10.9%
WD-2727 - Peninsula Pipeline Seismic U	69,772	30,072	3,583	36,117	66,189	4,312	7,547	11,858	14.3%	20.9%	17.9%
WD-2575 - San Antonio Backup Pipeline	75,263	45,723	1,151	28,389	74,112	6,488	5,972	12,460	14.2%	21.0%	16.8%
WD-2513 - San Andreas Pipeline No.3 In	83,503	28,638	11,956	42,909	71,547	3,994	5,317	9,311	13.9%	12.4%	13.0%
WD-2621R - SF Groundwater Supply We	52,378	31,531	-	20,847	52,378	4,322	1,903	6,225	13.7%	9.1%	11.9%
WD-2501 - Alemany Pump Station	74,085	54,295	48	19,741	74,037	7,403	223	7,625	13.6%	1.1%	10.3%
WD-2498 - New Crystal Springs Bypass	117,821	93,680	12,599	11,543	105,223	12,361	5,252	17,612	13.2%	45.5%	16.7%
WD-2568 - BDPL Nos. 3&4 Crossover F	47,910	31,539	2,093	14,278	45,817	3,818	720	4,538	12.1%	5.0%	9.9%
WD-2591 - Lower Crystal Springs Dam I	98,562	41,053	1,162	56,348	97,400	4,833	3,853	8,685	11.8%	6.8%	8.9%
WD-2629 - Seismic Upgrade of Bay Divis	134,349	73,390	1,614	59,345	132,735	8,297	13,294	21,590	11.3%	22.4%	16.3%
WD-2601 - Crystal Springs / San Andrea	489,160	334,614	23,708	130,839	465,452	37,795	10,916	48,710	11.3%	8.3%	10.5%
WD-2541 - Bay Division Pipeline No. 5 -	208,058	88,905	12,802	106,351	195,256	10,026	10,170	20,196	11.3%	9.6%	10.3%
HH-953 - Tesla Portal Protection	11,512	4,377	133	7,002	11,379	487	2,768	3,255	11.1%	39.5%	28.6%
WD-2566 - San Antonio Pump Station U	14,916	8,241	137	6,539	14,780	859	939	1,798	10.4%	14.4%	12.2%
WD-2551 - Calaveras Dam Replacement	1,465,518	827,914	35,372	602,231	1,430,146	83,617	98,378	181,996	10.1%	16.3%	12.7%
HH-935A - San Joaquin Pipeline - Crosse	84,483	53,744	839	29,900	83,644	5,357	3,652	9,009	10.0%	12.2%	10.8%
HH-935C - San Joaquin Pipeline - Easter	143,988	89,174	1,840	52,974	142,148	8,862	8,401	17,263	9.9%	15.9%	12.1%
WD-2776 - SF Westside Recycled Wate	17,563	9,323	81	8,159	17,482	916	545	1,461	9.8%	6.7%	8.4%
WD-2564 - HTWTP - Short Term Improve	43,049	22,612	80	20,358	42,969	2,089	-	2,089	9.2%	0.0%	4.9%
WD-2623 - Harding Park Recycled Wate	22,727	7,869	456	14,403	22,271	696	949	1,645	8.8%	6.6%	7.4%
WD-2556 - Baden and San Pedro Valve	19,939	11,046	344	8,550	19,595	951	1,788	2,738	8.6%	20.9%	14.0%
WD-2542 - Bay Division Pipeline No. 5 -	288,044	90,020	31,498	166,526	256,546	7,049	19,161	26,210	7.8%	11.5%	10.2%
WD-2652 - BHR - San Antonio Creek	110,655	19,428	2,526	88,700	108,128	1,492	19,170	20,661	7.7%	21.6%	19.1%
HH-935B - San Joaquin Pipeline - Weste	100,492	52,940	11,926	35,627	88,566	4,061	5,243	9,304	7.7%	14.7%	10.5%
WD-2511 - Standby Power Facilities	11,275	9,046	-	2,230	11,275	626	-	626	6.9%	0.0%	5.6%
WD-2581 - New Irvington Tunnel	730,536	546,830	99,798	83,908	630,738	31,860	19,891	51,750	5.8%	23.7%	8.2%
WD-2622 - SF Groundwater Supply Pipe	17,782	4,623	1,682	11,477	16,100	266	1,827	2,092	5.7%	15.9%	13.0%
WD-2543 - North University Mound Syste	53,265	14,383	7,082	31,800	46,183	743	2,255	2,998	5.2%	7.1%	6.5%
WD-2531 - Bay Division Pipelines Reliab	583,318	412,690	91,164	79,463	492,154	14,153	18,238	32,391	3.4%	23.0%	6.6%
WD-2665 - Bav Division Pipeline No. 5, C	21,967	10,548	234	11,185	21,733	168	1,741	1,909	1.6%	15.6%	8.8%
WD-2666 - BHR - Sheep Camp Creek	23,492	16,708	336	6,448	23,156	228	1,615	1,843	1.4%	25.0%	8.0%
WD-2654R - Peninsula Vegetation Remc	30,464	5,842	189	24,433	30,275	24	1,694	1,718	0.4%	6.9%	5.7%
WD-2529 - Noe Valley Transmission Ma	22,511	6,021	2,067	14,423	20,444	-	1,133	1,133	0.0%	7.9%	5.5%
WD-2600 - Regional Groundwater Stora	6,088	-	4,027	2,061	2,061	-	296	296	0.0%	14.3%	14.3%
WD-2809 - SF Groundwater Supply Phas	9,231	3,898	-	5,334	9,231	278	126	404	0.0%	2.4%	4.4%
<b>WSIP - Covered by PLA (53 Projects + A</b>	<b>8,415,574</b>	<b>5,078,061</b>	<b>458,078</b>	<b>2,879,435</b>	<b>7,957,496</b>	<b>657,744</b>	<b>397,752</b>	<b>1,055,496</b>	<b>13.0%</b>	<b>13.8%</b>	<b>13.3%</b>

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The following chart indicates quarterly Apprentice Utilization over the past five (5) quarters ending September 30, 2018.



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<b>WSIP - Covered by PLA (54 Projects + AMI) Substance Abuse Testing Summary</b>	
Tests Administered to Individuals Cleared to Work Through 9/30/2018	
Project	Number Cleared
WD-2596 - Harry Tracy Water Treatment Plant Long-Term Improvements	2,401
WD-2551 - Calaveras Dam Replacement Project	2,065
WD-2601 - Crystal Springs / San Andreas Transmission System Upgrade	1,282
WD-2582 - Sunol Valley Water Treatment Plant and Treated Water Reservoir	704
WD-2581 - New Irvington Tunnel	651
WD-2531 - Bay Division Pipelines Reliability Upgrade - Bay Tunnel	581
WD-2548 - Lake Merced Pump Station Essential Upgrades	531
WD-2541 - Bay Division Pipeline No. 5 - East Bay Reaches	509
WD-2501 - Alemany Pump Station	375
DB-116 - Tesla Treatment Facility	374
HH-935C - San Joaquin Pipeline System - Eastern Segment & Other Facilities	335
WD-2539 - University Mound Reservoir North Basin Seismic Upgrades	319
WD-2542 - Bay Division Pipeline No. 5 - Peninsula Reaches	305
WD-2668 - Regional Groundwater Storage and Recovery	265
CS-936 - Advanced Meter Infrastructure	229
WD-2552 - Alameda Siphon No. 4 Project	229
HH-935B - San Joaquin Pipeline System - Western Segment	226
WD-2629 - Seismic Upgrade of Bay Division Pipeline Nos. 3&4 at the Hayward Fault	226
WD-2627R - Sutro Reservoir Rehabilitation and Seismic Upgrade	217
WD-2498 - New Crystal Springs Bypass (Polhemus) Tunnel	212
WD-2504 - Stanford Heights Reservoir Seismic Retrofit and Improvement	199
HH-935A - San Joaquin Pipeline System - Crossovers	186
WD-2573 - Pulgas Balancing Reservoir Structural Rehabilitation and Roof Replacement	184
WD-2568 - BDPL Nos. 3&4 Crossover Facilities	180
WD-2513 - San Andreas Pipeline No.3 Installation Project	178
WD-2729 - Fish Passage Facilities Within The Alameda Creek Watershed	148
WD-2575 - San Antonio Backup Pipeline	132
WD-2591 - Lower Crystal Springs Dam Improvements	125
WD-2469 - Forest Knolls Pump Station and Storage Tank Upgrade	115
WD-2555 - Crystal Springs Pipeline No.2 Replacement Project	98
WD-2621R - San Francisco Groundwater Supply Well Stations	97
WD-2564 - Harry Tracy Water Treatment Plant - Short Term Improvements Phases 2 and 3	95
WD-2652 - Bioregional Habitat Restoration, San Antonio Creek	90
WD-2556 - Baden and San Pedro Valve Lot Improvements	86
WD-2776 - San Francisco Westside Recycled Water Treatment Facility at Oceanside Plant	45
HH-914R - Roselle Crossover Improvements	72
WD-2566 - San Antonio Pump Station Upgrades Project	70
WD-2623 - Harding Park Recycled Water Project	65
WD-2651R - Peninsula 2011 Watershed Compensation, Sherwood Point, Adobe Gulch Creek, Skyline Quarry, Sky	63
WD-2727 - Peninsula Pipeline Seismic Upgrade	61
HH-953 - Tesla Portal Protection	59
WD-2543 - North University Mound System Upgrade	55
WD-2529 - Noe Valley Transmission Main - Phase II	47
WD-2665 - Bay Division Pipeline Reliability Upgrade Project - Bay Division Pipeline No. 5, Cordilleras Microtunnel	43
WD-2654R - Peninsula Vegetation Removal	34
WD-2511 - Standby Power Facilities, Various Locations	30
WD-2666 - Bioregional Habitat Restoration, Sheep Camp Creek	30
WD-2589 - Supervisory Control and Data Acquisition SCADA System Phase II	28
WD-2641R - Habitat Reserve Program, Homestead Pond, San Andreas Reservoir Wetlands, Adobe Gulch Grasslar	23
WD-2600 - Regional Groundwater Storage and Recovery Project- Test Well Drilling	22
WD-2622 - San Francisco Groundwater Supply Pipeline	22
WD-2798 - San Francisco Westside Recycled Water Pipeline	20
WD-2809 - San Francisco Groundwater Supply Phase 2	8
WD-2640 - Bioregional Habitat Restoration	-
<b>Total Cleared</b>	<b>14,610</b>

### **Substance Abuse Prevention**

The WSIP PLA requires pre-employment alcohol and drug testing for all covered employees. The policy also allows testing where the contractor has reasonable cause to believe that the employee has used drugs or alcohol, and mandates testing where a contractor concludes that an employee was under the influence of drugs or alcohol at the time of an accident. The SFPUC has extended the WSIP PLA substance abuse prevention policy to all contractor employees working on a job site.

**14,610** pre-employment tests have been administered as of September 30, 2018 to people who were cleared to work. 196 people did not pass pre-employment screens and consequently were prevented from working until the results could be confirmed through lab tests. Strict regulations and high compliance by the contractors have led to a mere **1.34%** of failed screenings. These numbers have a direct correlation with the outstanding safety record of the entire WSIP Enterprise. The chart is on the next page.

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**Legislative History of the WSIP PLA**

On April 8, 2003, the San Francisco Board of Supervisors adopted Resolution 223-03 urging the SFPUC to develop plans for a Project Labor Agreement covering the capital improvement program to rehabilitate, repair, and upgrade the Hetch Hetchy Water System.

On May 20, 2003 the San Francisco Board of Supervisors adopted Resolution 350-03 urging the SFPUC to include social justice components in the Project Labor Agreement covering the Hetch Hetchy Water System upgrade.

On May 11, 2006 the San Francisco Board of Supervisors amended the San Francisco Administrative Code to establish a PUC Small firm Advisory Committee to provide for the certification of small construction contractors located outside San Francisco and within the SFPUC service territory for work on SFPUC construction projects, including those covered by the WSIP PLA.

On March 28, 2006 the SFPUC adopted Resolution No. 06-0049 to authorize SFPUC staff to commence negotiations with the various craft labor unions for a project labor agreement covering the Water System Improvement Program. Resolution No. 06-0049 concluded that the governmental interests of the SFPUC were furthered by a project labor agreement as follows:

“There are numerous advantages in moving forward on the negotiation of a PLA, which include but are not limited to the following: creates framework for labor harmony; militates against construction delays; assures steady supply of qualified labor; provides employment, career, and local business opportunities; and, other benefits ...”

On March 26, 2007, the SFPUC approved the negotiated agreement, called the Water System Improvement Program Project Labor Agreement (the WSIP PLA). The WSIP PLA requires construction contractors to utilize workers dispatched by signatory unions, and prohibits the unions and contractors from participating in strikes, lockouts, or other disruptions to the work. The WSIP PLA provides a procedure for adjudicating conflicting jurisdictional claims between the unions, provides for uniform hours of work, overtime, shifts and holidays, encourages the recruitment and training of low-income residents of the SFPUC service territory, and requires substance abuse testing for all covered workers. The first implementation of the WSIP PLA was on contract WD-2504, the Stanford Heights Reservoir Seismic Retrofit and Improvement project which the SFPUC awarded to S.J. Amoroso Construction Co. Inc. on Jun. 26, 2007 in the amount of \$17,899,960.

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**Governance**

The parties to the WSIP PLA have established a four person Joint Administrative Committee that reviews the implementation of the agreement and the progress of the covered projects, and resolves problems and grievances that arise in connection with the agreement. The SFPUC administers the agreement under the direction of the Joint Administrative Committee.

The Joint Administrative Committee has established the Jobs Training Opportunities Program to promote the employment and training of San Francisco and SFPUC Service Territory residents on WSIP projects.

**Pre-Job Conferences and Jurisdictional Disputes**

Prior to the commencement of construction, representatives of the participating contractors and subcontractors, the Unions, and the SFPUC, are mandated to attend a pre-job conference held at the offices of the SFPUC or the offices of the local Building and Construction Trades Council. At the pre-job conference each contractor and subcontractor describes the scope of their work and assigns the work on the basis of traditional craft jurisdictional lines. When conflicting claims for work are submitted to a contractor, the WSIP PLA's Jurisdictional Dispute Resolution procedure is invoked to prevent delay or disruption in the work due to jurisdictional disputes.

**Web-Based Labor Compliance Program**

All SFPUC construction projects including those covered by the WSIP PLA utilize the City's web-based labor compliance program (Elation Systems, Inc.) which allows contractors to submit their weekly certified payroll reports electronically over the internet. Elation Systems' electronic certified payrolls are used to produce the employment data included in this report.



HETCH HETCHY

WATER SYSTEM **IMPROVEMENT** PROGRAM

# **Water System Improvement Program Project Labor Agreement**

## **Quarterly Report Quarter Ended December 31, 2018 (Second Quarter FY 2017-2018)**

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San Francisco Public Utilities Commission  
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**Executive Summary**

Since it was adopted on March 16, 2007 the WSIP Project Labor Agreement (PLA) has promoted the public interest by ensuring the timely and economical completion of WSIP projects. The WSIP PLA has provided the structure to promote efficiency of construction of the WSIP, facilitate the partnership between the SFPUC, Unions, and Contractors, provide for peaceful settlement of labor disputes, and facilitate the employment of residents.

Progress on WSIP construction projects provides employment for construction workers employed by union-signatory and non-union construction contractors. Fifty-four (54) WSIP contracts have been awarded subject to the WSIP PLA in the amount of \$2.162 billion in original contract award through December 31, 2018.

Construction Activity Highlights – Program-to-Date

**Contracting:**

- Fifty-four (54) construction contracts with a value of \$2.162 billion in original contract award have been awarded subject to the WSIP PLA.

**Employment:**

- Since inception, 13,995 construction workers were employed for 8,470,829 hours and earned wages of \$337,394,694 on WSIP PLA-covered projects.
- 1,189 San Francisco residents worked 582,638 hours and earned \$22,094,623 on WSIP PLA-covered projects representing 7% of covered hours and 280 full-time equivalent worker years.
- The SFPUC Regional Service Territory consists of zip codes in seven counties outside of San Francisco, both in the vicinity of WSIP construction and within which the SFPUC delivers water. 5,770 residents of the Regional Service Territory earned wages of \$129,282,361 and worked 3,350,946 hours, representing 40% of covered hours and 1,611 full-time equivalent worker years.
- 14,747 pre-employment substance abuse tests have been administered to employees cleared to work on WSIP PLA-covered projects as of December 31, 2018. 137 people were prevented from working on WSIP PLA-covered projects due to receiving a non-negative result.

Region of Worker Residence	Inception Through December 31, 2018			
	Worker Count	Sum of Hours	Sum of Wages	FTE
All Workers	13,995	8,470,829	\$ 337,394,694	4,073
San Francisco	1,189	582,638	\$ 22,094,623	280
SFPUC Service Territory	5,770	3,350,946	\$ 129,282,361	1,611
Outside	7,036	4,537,245	\$ 186,017,710	2,181

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Construction Activity Highlights – Quarter Ending December 31, 2018

**Contracting:**

- There were no contracts awarded during the reporting period.

**Employment:**

- 364 construction workers were employed for 55,254 hours and earned wages of \$2,499,745 on WSIP PLA-covered projects.
- 31 San Francisco residents worked 3,045 hours and earned wages of \$114,852 on WSIP PLA-covered projects.
- The SFPUC Regional Service Territory consists of zip codes in seven counties outside of San Francisco, both in the vicinity of WSIP construction and within which the SFPUC delivers water. During this quarter, 149 residents of the Regional Service Territory worked 26,175 hours and earned wages of \$1,150,283 on WSIP PLA-covered projects.
- 137 pre-employment substance abuse screenings were administered under the provisions of the WSIP PLA Substance Abuse Policy and two individuals were prevented from working as the result of a positive test.

**Summary of Craft Worker Employment**

Region of Worker Residence	Three Months Ending December 31, 2018			
	Worker Count	Sum of Hours	Sum Of Wages	FTE*
All Workers	<b>364</b>	<b>55,254</b>	<b>\$ 2,499,745</b>	<b>27</b>
San Francisco	<b>31</b>	<b>3,045</b>	<b>\$ 114,852</b>	<b>1</b>
SFPUC Service Territory	<b>149</b>	<b>26,175</b>	<b>\$ 1,150,283</b>	<b>13</b>
Outside	<b>184</b>	<b>26,034</b>	<b>\$ 1,234,610</b>	<b>13</b>

\*FTE is the abbreviation for Full Time Equivalent. Since the workers on the projects may only work a few hours or days on the project, this is a way to determine the number of full time positions created. It is found by taking the Sum of Hours divided by 2,080, the conventional value for total hours worked per year based on a 40-hour work week.

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**Summary of WSIP PLA-Covered Contract Awards**

Sorted by Award Date

Construction Contracts Awarded Subject to the WSIP-PLA					
Inception through December 31, 2018					
Award Date	Contract No.	Prime Contractor	Project	Engineer's Estimate	Award \$
05/09/17	WD-2776*	S.J. Amoroso Construction Co., Inc.	San Francisco Westside Recycled Water Treatment Facility	\$70 to 80 Million	\$ 87,597,000
01/24/17	WD-2809*	Western Water Constructors, Inc.	San Francisco Groundwater Supply Phase 2	\$11.2 Million	\$ 9,780,000
11/08/16	WD-2798*	JMB CONSTRUCTION INC	San Francisco Westside Recycled Water Pipeline	\$28.6 Million	\$ 21,729,720
01/12/16	WD-2729	Shimmick Construction	Fish Passage Facilities Within the Alameda Creek Watershed	\$30 Million	\$ 28,939,300
10/27/15	WD-2654R	NTK Construction	Peninsula Vegetation Removal	\$10.8 Million	\$ 11,062,544
01/13/15	WD-2621R*	Western Water Constructors, Inc.	San Francisco Groundwater Supply Well Stations	\$16 Million	\$ 14,955,100
01/13/15	WD-2668	Ranger Pipelines Inc	Regional Groundwater Storage and Recovery	\$50 Million	\$ 42,980,047
05/27/14	WD-2622*	Ranger Pipelines Inc	San Francisco Groundwater Supply Pipeline	\$13.6 Million	\$ 8,676,685
01/28/14	WD-2727	Ranger Pipelines Inc	Peninsula Pipeline Seismic Upgrade	\$22.5 Million	\$ 20,736,380
01/22/13	WD-2575	Ranger Pipelines Inc	San Antonio Backup Pipeline	\$34 to \$38 Million	\$ 31,372,335
06/26/12	WD-2627R*	S.J.Amoroso	Sutro Reservoir Rehabilitation	\$28 to \$36 Million	\$ 27,453,000
06/26/12	WD-2666	Shimmick Construction	Bioregional Habitat Restoration, Sheep Camp Creek	\$2.7 Million	\$ 3,912,500
06/12/12	WD-2629	Steve P. Rados	Bay Division Pipeline 3&4 at the Hayward Fault	\$49 to \$54 Million	\$ 31,320,000
04/23/12	WD-2651R	Shimmick Construction	Peninsula 2011 Watershed Compensation, Sherwood Park	\$5.9 to \$6.7 Million	\$ 5,591,750
12/13/11	HH-953	Azul Works, Inc.	Tesla Portal Protection	\$2.4 Million	\$ 2,760,000
12/13/11	WD-2600*	Road Runner Drilling	Regional Groundwater Storage and Recovery-Test Well Construction	\$3.6 to \$4.2 Million	\$ 2,998,685
12/13/11	WD-2665	Steve P. Rados	Cordilleras Micro Tunnel	\$5.8 Million	\$ 5,251,100
11/08/11	WD-2652	Gordon N. Ball, Inc	Bioregional Habitat Restoration, San Antonio Creek	\$13 Million	\$ 12,947,400
09/13/11	WD-2641R	Yerba Buena Engineering	Habitat Reserve Program, Homestead Pond, San Andreas	\$6.4 Million	\$ 6,499,000
06/28/11	WD-2640	Yerba Buena Engineering	Bioregional Habitat Restoration - Goldfish Pond	\$2.4 Million	\$ 3,188,000
06/14/11	HH-935C	Contri Constmction,	San Joaquin Pipeline System - Eastern Segment	\$52 to \$57 Million	\$ 45,329,416
05/24/11	WD-2551	Dragados/Flatiron/Sukut JV	Calaveras Dam Replacement Project,	\$250 to \$300 Million	\$ 259,571,850
01/27/11	WD-2596	Kiewit Infrastructure West	Harry Tracy Water Treatment Plant Long-Term	\$220 to \$245 Million	\$ 174,197,000
01/11/11	WD-2555	Ranger Pipelines Inc	Crystal Springs Pipeline No.2	\$43 to \$48 Million	\$ 32,547,350
12/14/10	HH-935B	Mountain Cascade, Inc	San Joaquin Pipeline - Western Segment	\$70 Million	\$ 48,706,379
12/14/10	WD-2591	Kiewit Infrastructure West	Lower Crystal Springs Dam Improvements	\$18 to \$22 Million	\$ 17,360,400
09/14/10	WD-2601	Kiewit Infrastructure West	Crystal Springs / San Andreas Upgrade	\$100 to \$130 Million	\$ 99,763,000
09/14/10	WD-2623*	R & W Concrete	Harding Park Recycled Water Project	\$6.5 Million	\$ 5,251,100
06/08/10	WD-2581	Southland/Tutor Perini JV	New Irvington Tunnel	\$230 to \$260 Million	\$ 226,657,700
04/27/10	WD-2582	Shimmick Construction	Sunol Valley Water Treatment Plant	\$109 Million	\$ 83,102,160
04/13/10	HH-935A	West Bay Builders	San Joaquin Pipeline System - Crossovers	\$21.6 Million	\$ 11,723,817
12/18/09	WD-2531	Michels/JayDee/Coluccio, JV	Bay Tunnel	\$235 to \$260 Million	\$ 215,294,530
12/08/09	WD-2542	Mountain Cascade,	Bay Division Pipeline No. 5 - Peninsula Reaches	\$62 to \$69 Million	\$ 52,183,400
10/27/09	WD-2541	Ranger Pipelines Inc	Bay Division Pipeline Reliability Upgrade-East Bay	\$88 to \$98 Million	\$ 61,558,005
10/27/09	WD-2589	Ranger Pipelines Inc	Supervisory Control and Data Acquisition Phase II	\$10.6 Million	\$ 3,847,250
09/22/09	WD-2573	S.J.Amoroso	Pulgas Reservoir Structural Rehabilitation	\$14 to \$18 Million	\$ 12,857,000
09/08/09	WD-2566	Mountain Cascade	San Antonio Pump Station Upgrades Project	\$8.5 to \$9.5 Million	\$ 6,991,000
07/14/09	HH-914R	Mountain Cascade	Roselle Crossover Improvements	\$3.1 Million	\$ 2,837,000
06/23/09	WD-2513	Mountain Cascade	San Andreas Pipeline No.3 Installation Project	\$20 to \$25 Million	\$ 16,336,350
06/23/09	WD-2539*	S.J. Amoroso	University Mound Reservoir North Basin	\$47 to \$52 Million	\$ 29,597,000
05/26/09	WD-2552	Steve P. Rados	Alameda Siphon No. 4 Project	\$45.5 Million	\$ 31,933,695
04/28/09	WD-2568	Shimmick Construction	BDPL Nos. 3&4 Crossover Facilities	\$21.5 Million	\$ 12,695,000
04/17/09	WD-2548*	Western Water	Lake Merced Pump Station Essential Upgrades	\$52 to \$60 Million	\$ 31,584,000
03/10/09	CS-936*	VSI Meter Services	Advanced Meter Infrastructure	\$62.8 Million	\$ 62,822,980
02/24/09	WD-2556	JMB Construction	Baden and San Pedro Valve Lot Improvements	\$15 to \$18 Million	\$ 11,536,500
12/09/08	WD-2529*	KJ Woods	Noe Valley Transmission Main- Phase 2	\$6 to \$8 Million	\$ 5,724,000
10/14/08	WD-2498	Shank/Balfour-Beatty	New Crystal Springs Bypass Tunnel	\$55 to \$65 Million	\$ 55,674,000
09/23/08	DB-116	PCL Constructors	Tesla Treatment Facility	\$90 Million	\$ 81,420,562
09/09/08	WD-2543*	Shaw Pipeline Inc.	North University Mound System Upgrade	\$15 to \$18 Million	\$ 13,529,370
05/27/08	WD-2564	NTK Construction	Harry Tracy Water Treatment Plant-Short Term	\$15 to \$18 Million	\$ 13,824,000
12/11/07	WD-2469*	Cal State Constructors	Forest Knolls Pump Station and Storage Tank	\$5.5 to \$7 Million	\$ 6,547,000
12/07/07	WD-2501*	Monterey Mechanical	Alemany Pump Station	\$18 to \$22 Million	\$ 23,269,000
11/13/07	WD-2511	Power Engineering	Standby Power Facilities, Various Locations	\$5.7 Million	\$ 8,419,000
06/26/07	WD-2504*	S.J. Amoroso	Stanford Heights Reservoir Seismic Retrofit	\$18 to \$24 Million	\$ 17,899,960
<b>Total 54 Projects</b>					<b>\$ 2,162,341,320</b>

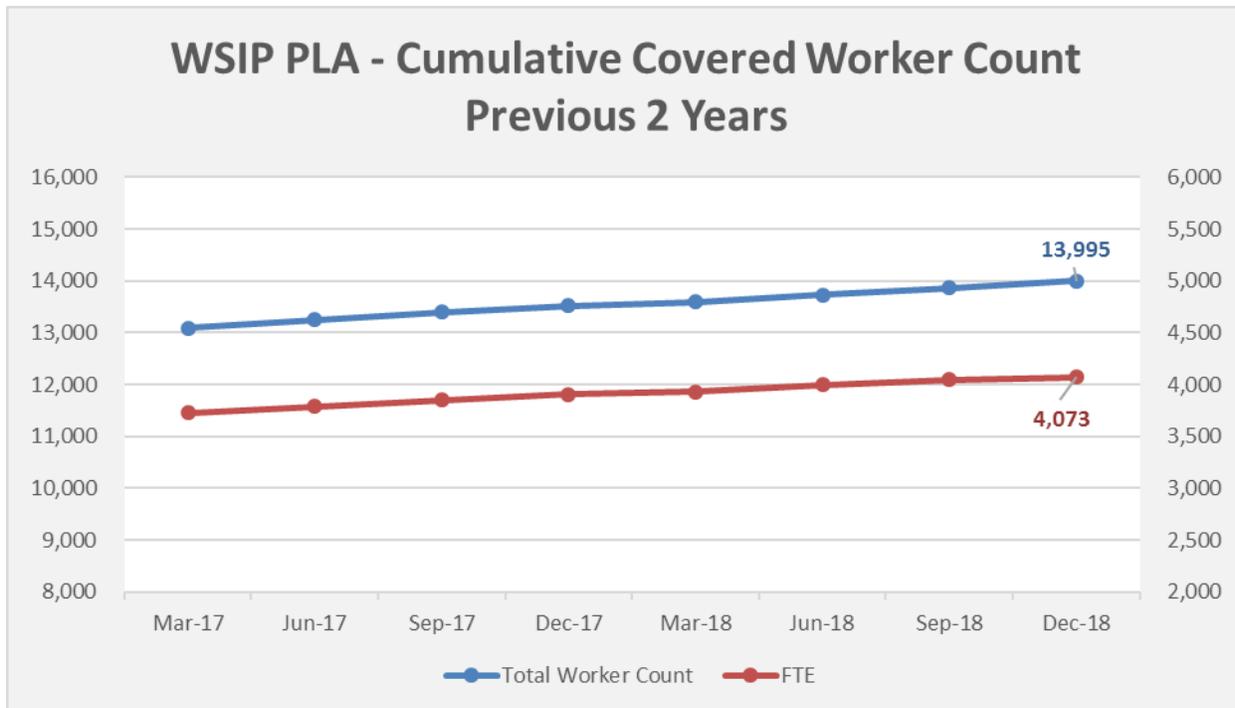
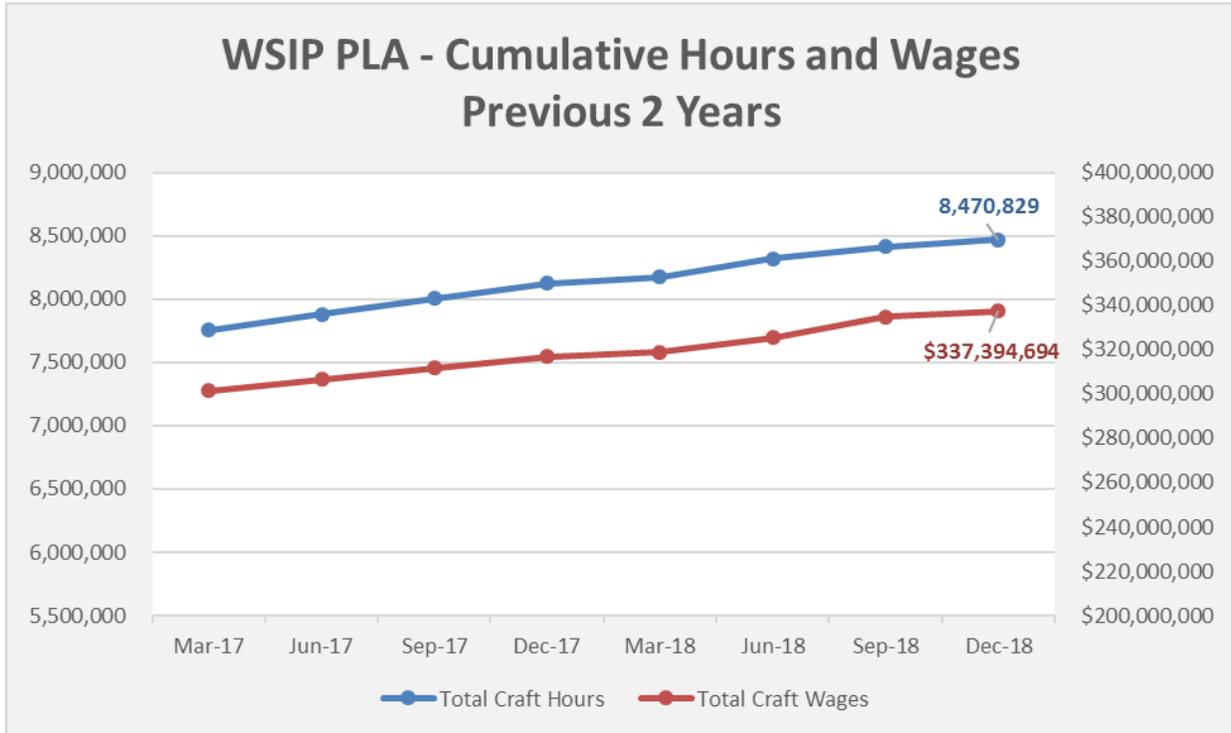
\* indicates projects located in San Francisco

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**Summary Charts**

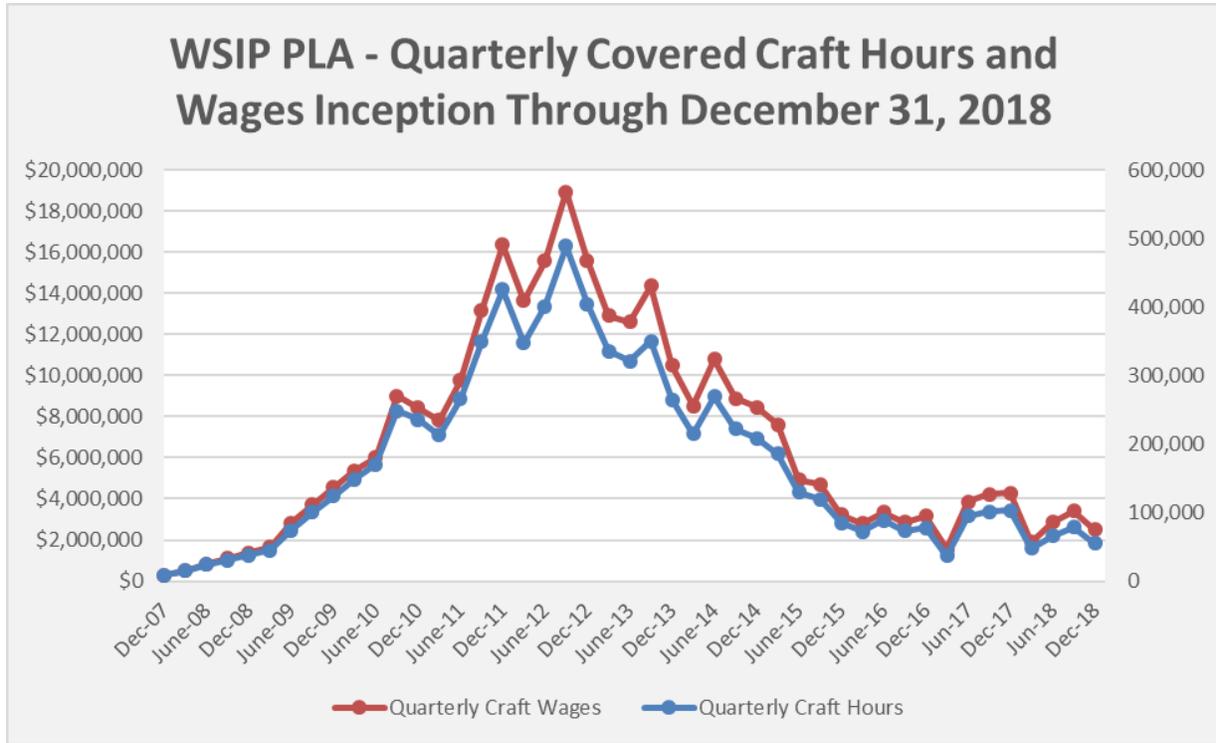
From the inception of the WSIP Project Labor Agreement in March 2007 through the current quarter ending December 31, 2018; 13,995 workers on WSIP PLA-covered projects have achieved a cumulative total of 8,470,829 craft hours and \$337,394,694 in craft wages.

The tables below describe the progressive accumulation of these totals over the past two years.

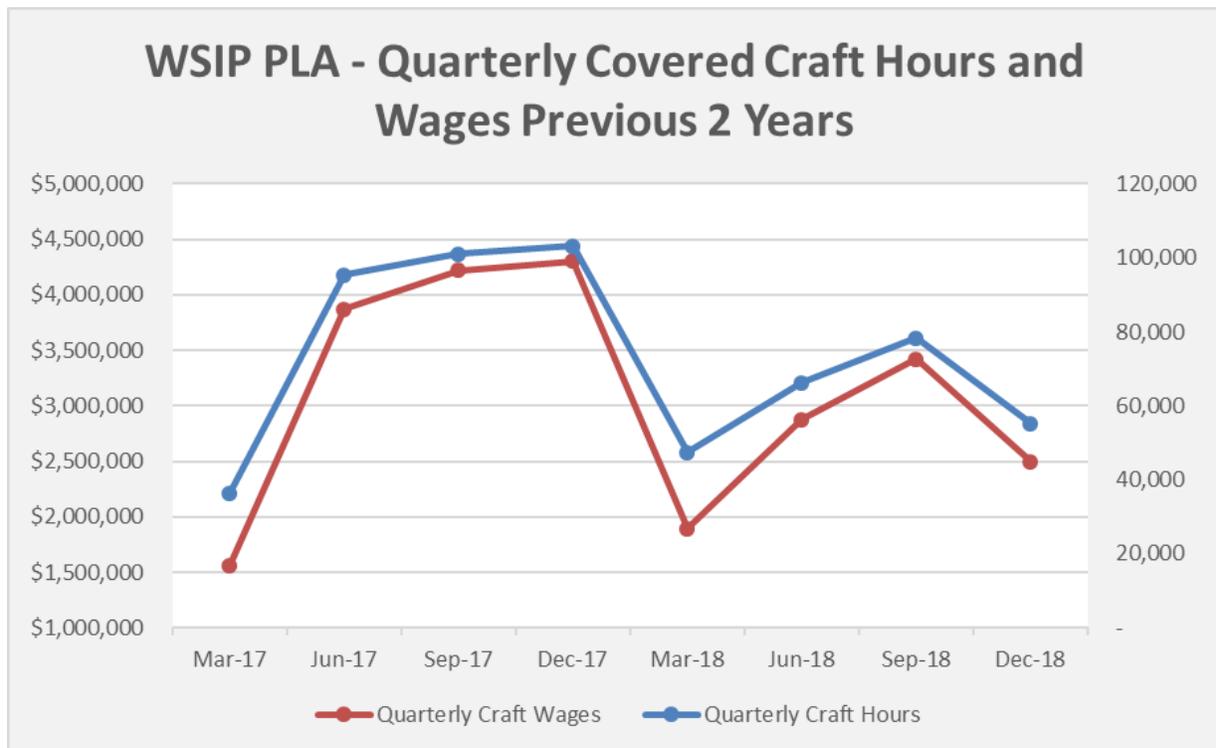


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The top chart on this page illustrates the values recorded *during* each quarter since inception. With the program surpassing 90% total completion, Craft Hours have and will likely continue to trend down until total completion.



The chart below represents a close-up of the one above; highlighting the past two years.



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**Craft Utilization on WSIP PLA-Covered Projects**

As of December 31, 2018, contractors reported craft hours in 54 craft worker classifications that the SFPUC summarizes into 30 craft areas.

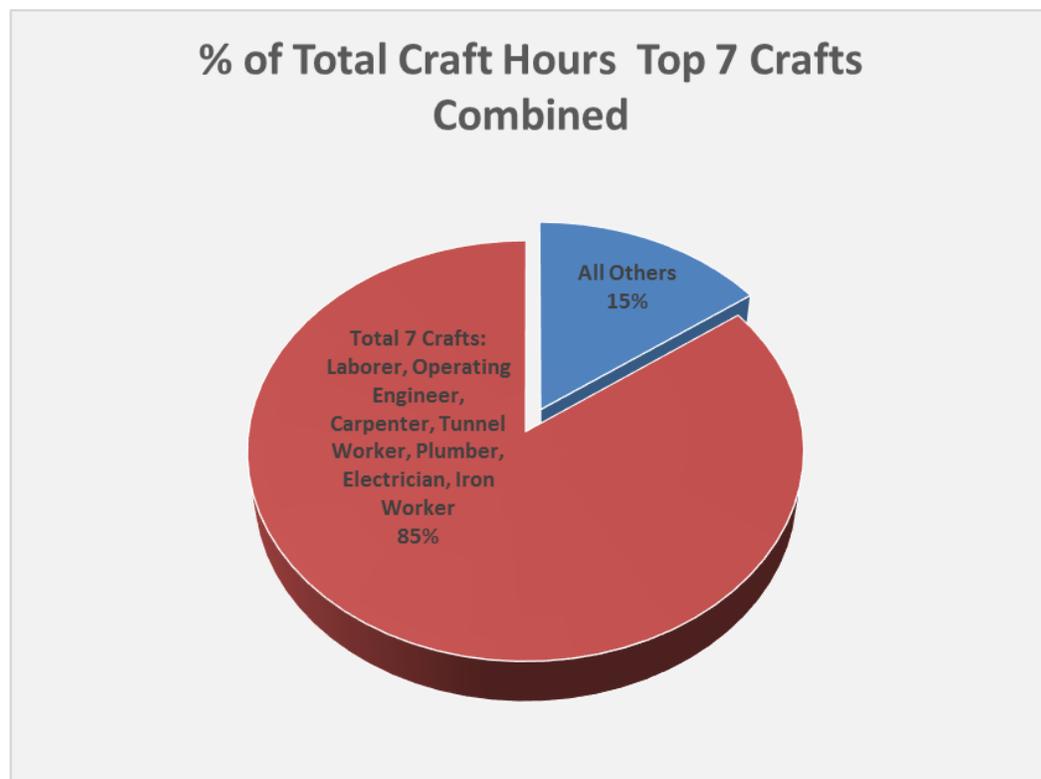
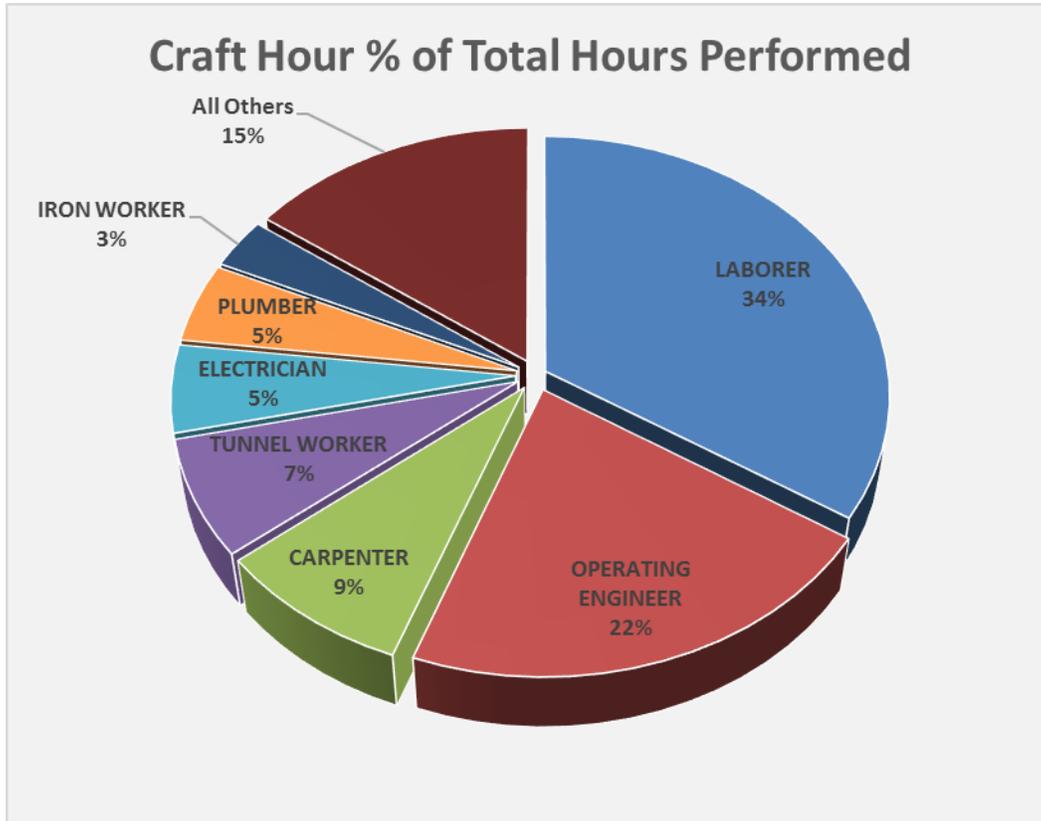
Illustrated here and in the following pages, Laborers, Operating Engineers, Carpenters, and Tunnel Workers, respectively, represent the majority of WSIP PLA craft workers to date. The Plumbers craft numbers include the Advanced Meter Infrastructure (AMI) project which was almost completely performed by Plumbers.

Sorted by Total Craft Hours

<b>Cumulative Employment by Craft</b>					
Inception Through December 31, 2018					
Craft	Total Hours	Total Wages	% Craft Hours of Total Hours	% Wages of Total Wages	FTE
Laborer	2,901,394	\$ 89,882,863	34.3%	26.6%	1,395
Operating Engineer	1,825,053	\$ 76,614,932	21.5%	22.7%	877
Carpenter	732,236	\$ 30,994,966	8.6%	9.2%	352
Tunnel Worker	612,964	\$ 26,175,557	7.2%	7.8%	295
Electrician	464,505	\$ 24,516,956	5.5%	7.3%	223
Plumber	419,081	\$ 19,623,373	4.9%	5.8%	201
Iron Worker	267,242	\$ 9,215,429	3.2%	2.7%	128
<b>Top 7 Sub-Total</b>	<b>7,222,474</b>	<b>\$ 277,024,075</b>	<b>85.3%</b>	<b>82.1%</b>	<b>3,472</b>
Pile Driver	181,108	\$ 9,670,915	2.1%	2.9%	87
Painter	145,285	\$ 5,674,488	1.7%	1.7%	70
Cement Mason	127,829	\$ 4,499,654	1.5%	1.3%	61
Boilermaker	119,116	\$ 6,273,157	1.4%	1.9%	57
Building/Construction Inspector	85,821	\$ 4,873,618	1.0%	1.4%	41
Roofer	48,115	\$ 1,628,980	0.6%	0.5%	23
Field Surveyor	21,587	\$ 1,238,641	0.3%	0.4%	10
Sheet Metal Worker	18,179	\$ 860,884	0.2%	0.3%	9
Drywall Installer/Lather	10,796	\$ 458,160	0.1%	0.1%	5
Bricklayer	8,620	\$ 329,139	0.1%	0.1%	4
Electrical Utility Lineman	6,797	\$ 417,708	0.1%	0.1%	3
Plasterer	6,642	\$ 235,276	0.1%	0.1%	3
Glazier	4,347	\$ 214,828	0.1%	0.1%	2
Metal Roofing Systems Installer	2,586	\$ 92,217	0.0%	0.0%	1
Brick Tender	895	\$ 30,418	0.0%	0.0%	0
Asbestos Worker, Heat and Frost Insu	704	\$ 41,073	0.0%	0.0%	0
Carpet Layer	354	\$ 16,311	0.0%	0.0%	0
Tile Setter	351	\$ 12,929	0.0%	0.0%	0
Tile Finisher	277	\$ 5,836	0.0%	0.0%	0
Terrazzo Worker	199	\$ 8,163	0.0%	0.0%	0
Driver	182	\$ 19,110	0.0%	0.0%	0
Marble Finisher	40	\$ 1,342	0.0%	0.0%	0
Terrazzo Finisher	4	\$ 160	0.0%	0.0%	0
<b>Remaining Apprenticeable Sub-Total</b>	<b>789,831</b>	<b>\$ 36,603,008</b>	<b>9.3%</b>	<b>10.8%</b>	<b>380</b>
<b>Total Non-Apprenticeable</b>	<b>458,524</b>	<b>\$ 23,767,611</b>	<b>5.4%</b>	<b>7.0%</b>	<b>220</b>
<b>Total WSIP-Covered by PLA</b>	<b>8,470,829</b>	<b>\$ 337,394,694</b>	<b>100.0%</b>	<b>100.0%</b>	<b>4,073</b>

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This chart summarizes WSIP PLA-covered craft employment for trades with the largest number of craft hours as of December 31, 2018. Laborers, Operating Engineers, Carpenters, and Tunnel Workers combined represent 72% of craft hours worked on PLA-covered projects.



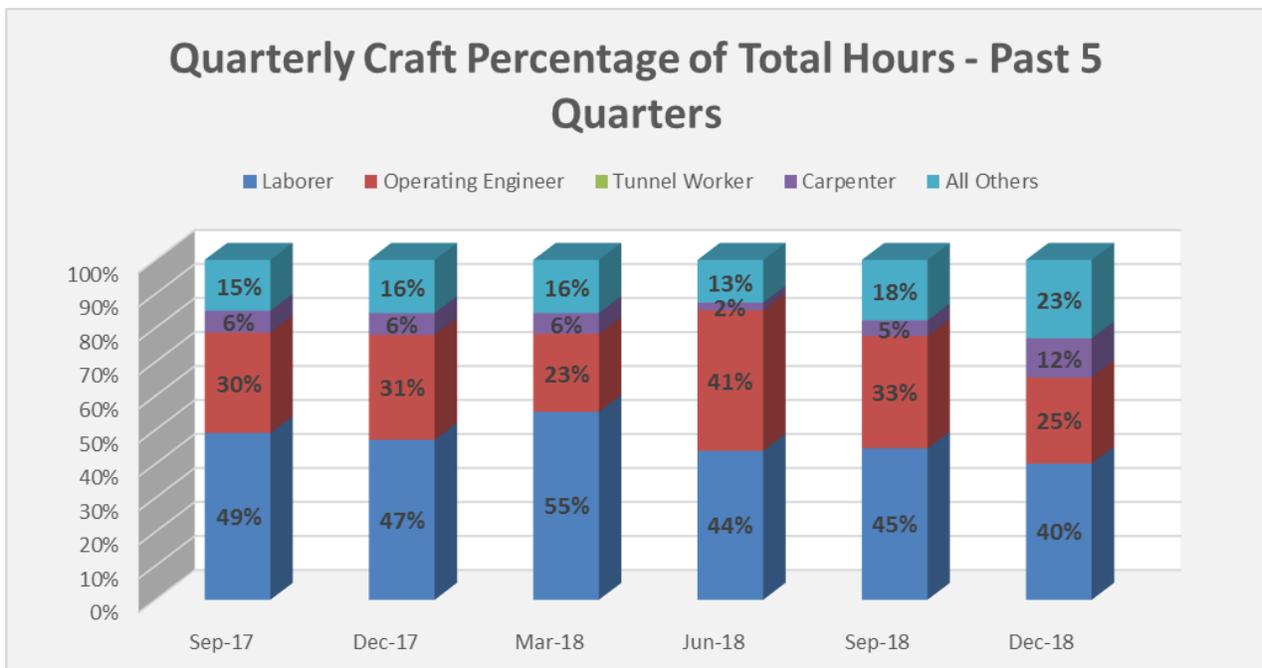
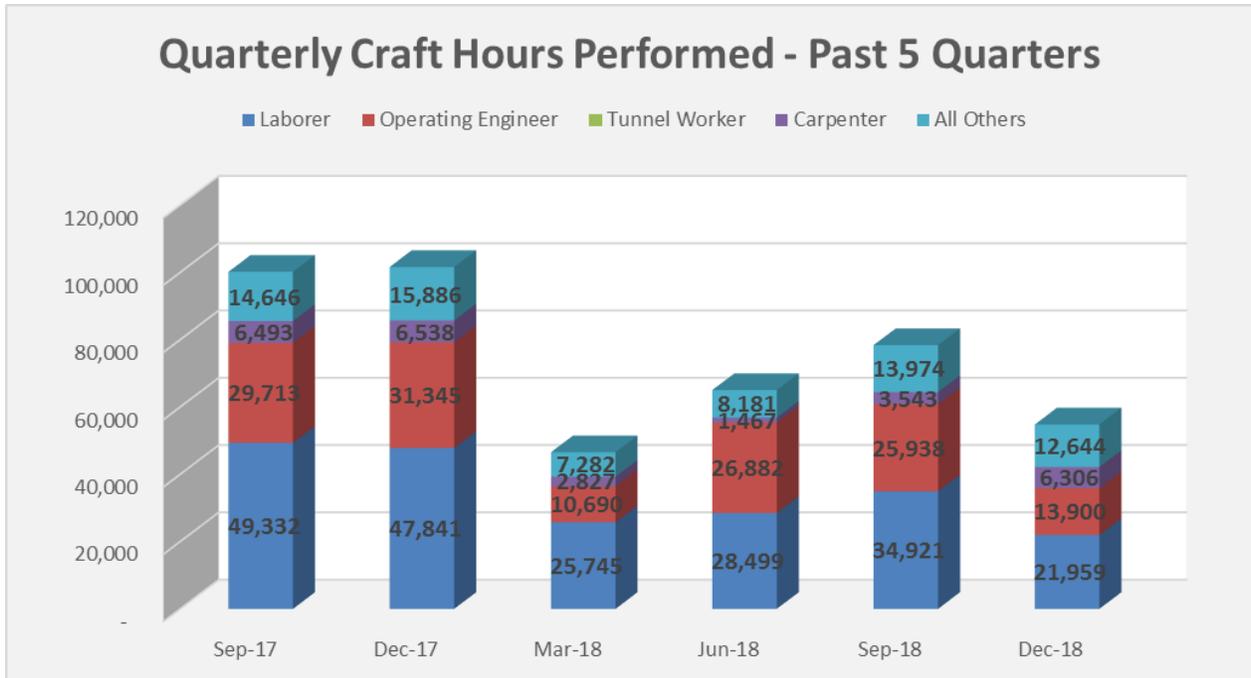
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The table below reflects the values of hours and wages for each trade cumulatively since the inception of the WSIP and the most recent reporting period.

Craft	Total Cumulative Hours	Total Cumulative Wages	Quarter Ending 12-31-2018 Hours	Quarter Ending 12-31-2018 Wages
Laborer	2,901,394	\$ 89,882,863	21,959	\$ 793,485
Operating Engineer	1,825,053	\$ 76,614,932	13,900	\$ 689,644
Carpenter	732,236	\$ 30,994,966	6,306	\$ 324,014
Tunnel Worker	612,964	\$ 26,175,557	-	\$ -
Electrician	464,505	\$ 24,516,956	4,678	\$ 283,444
Plumber	419,081	\$ 19,623,373	1,732	\$ 119,939
Iron Worker	267,242	\$ 9,215,429	1,435	\$ 55,696
Pile Driver	181,108	\$ 9,670,915	1,094	\$ 68,131
Painter	145,285	\$ 5,674,488	176	\$ 7,044
Cement Mason	127,829	\$ 4,499,654	948	\$ 38,479
Boilermaker	119,116	\$ 6,273,157	-	\$ -
Building/Construction Inspector	85,821	\$ 4,873,618	1,406	\$ 57,202
Roofer	48,115	\$ 1,628,980	236	\$ 8,060
Field Surveyor	21,587	\$ 1,238,641	332	\$ 13,210
Sheet Metal Worker	18,179	\$ 860,884	-	\$ -
Drywall Installer/Lather	10,796	\$ 458,160	-	\$ -
Bricklayer	8,620	\$ 329,139	28	\$ 1,300
Electrical Utility Lineman	6,797	\$ 417,708	-	\$ -
Plasterer	6,642	\$ 235,276	494	\$ 17,899
Glazier	4,347	\$ 214,828	-	\$ -
Metal Roofing Systems Installer	2,586	\$ 92,217	-	\$ -
Brick Tender	895	\$ 30,418	13	\$ 499
Asbestos Worker, Heat and Frost Insulator	704	\$ 41,073	76	\$ 4,557
Carpet Layer	354	\$ 16,311	-	\$ -
Tile Setter	351	\$ 12,929	-	\$ -
Tile Finisher	277	\$ 5,836	-	\$ -
Terrazzo Worker	199	\$ 8,163	-	\$ -
Driver	182	\$ 19,110	-	\$ -
Marble Finisher	40	\$ 1,342	-	\$ -
Terrazzo Finisher	4	\$ 160	-	\$ -
<b>Total</b>	<b>8,012,304</b>	<b>313,627,083</b>	<b>54,808</b>	<b>2,482,603</b>
Asbestos Removal Worker (Laborer)	17,057	\$ 435,487	-	\$ -
Dredger Operating Engineer	831	\$ 33,307	-	\$ -
Driver (On/Off-Hauling To/From Construction Site)	97,691	\$ 7,270,512	-	\$ -
Ironworker (Db)	80	\$ 2,772	-	\$ -
Landscape Maintenance Laborer	1,131	\$ 32,404	-	\$ -
Operating Engineer (Building Construction)	635	\$ 24,810	-	\$ -
Operating Engineer (Heavy And Highway Work) (Specialist)	95,289	\$ 4,512,513	-	\$ -
Parking And Highway Improvement Painter (Painter)	247	\$ 10,082	-	\$ -
Slurry Seal Worker	592	\$ 17,811	-	\$ -
Steel Erector And Fabricator (Operating Engineer - Heavy And Highway Work)	1,123	\$ 56,467	-	\$ -
Teamster	135,463	\$ 6,390,074	447	\$ 17,142
Teamster (Special Single Shift Rate)	11	\$ 291	-	\$ -
Telecommunications Technician	1,160	\$ 37,245	-	\$ -
Traffic Control/Lane Closure (Laborer)	888	\$ 31,991	-	\$ -
Tree Trimmer (High Voltage Line Clearance)	1,422	\$ 36,006	-	\$ -
Tunnel/Underground (Operating Engineer-Heavy And Highway Work)	79,393	\$ 3,676,393	-	\$ -
Tunnel/Underground (Operating Engineer-Heavy And Highway Work)	13,201	\$ 590,532	-	\$ -
Water Well Driller	12,313	\$ 608,914	-	\$ -
<b>Total Non-Apprenticeable</b>	<b>458,524</b>	<b>\$ 23,767,611</b>	<b>447</b>	<b>\$ 17,142</b>
<b>Total Apprenticeable</b>	<b>8,012,304</b>	<b>\$ 313,627,083</b>	<b>54,808</b>	<b>\$ 2,482,603</b>
<b>Total WSIP PLA</b>	<b>8,470,829</b>	<b>\$ 337,394,694</b>	<b>55,254</b>	<b>\$ 2,499,745</b>

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The charts below represent *Quarterly* participation of the largest four participating trade categories and all others combined on WSIP PLA-covered projects.

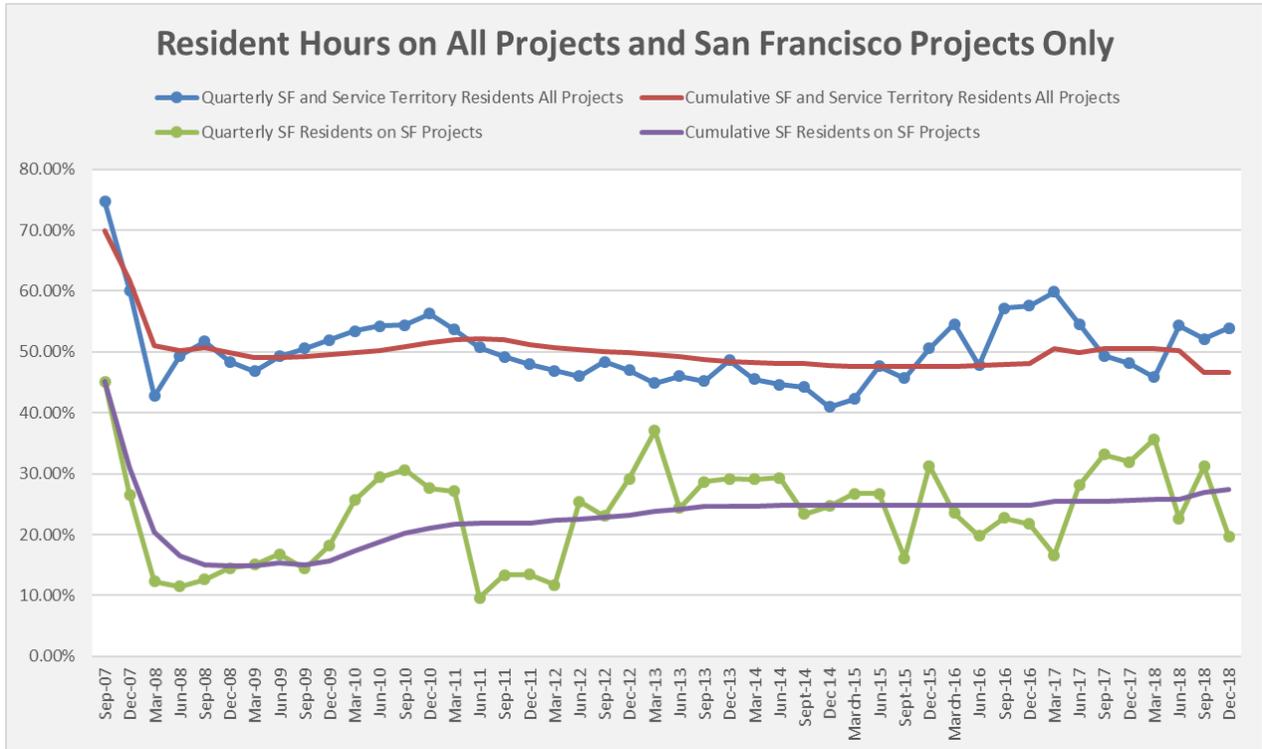


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**Worker Residence on the WSIP PLA**

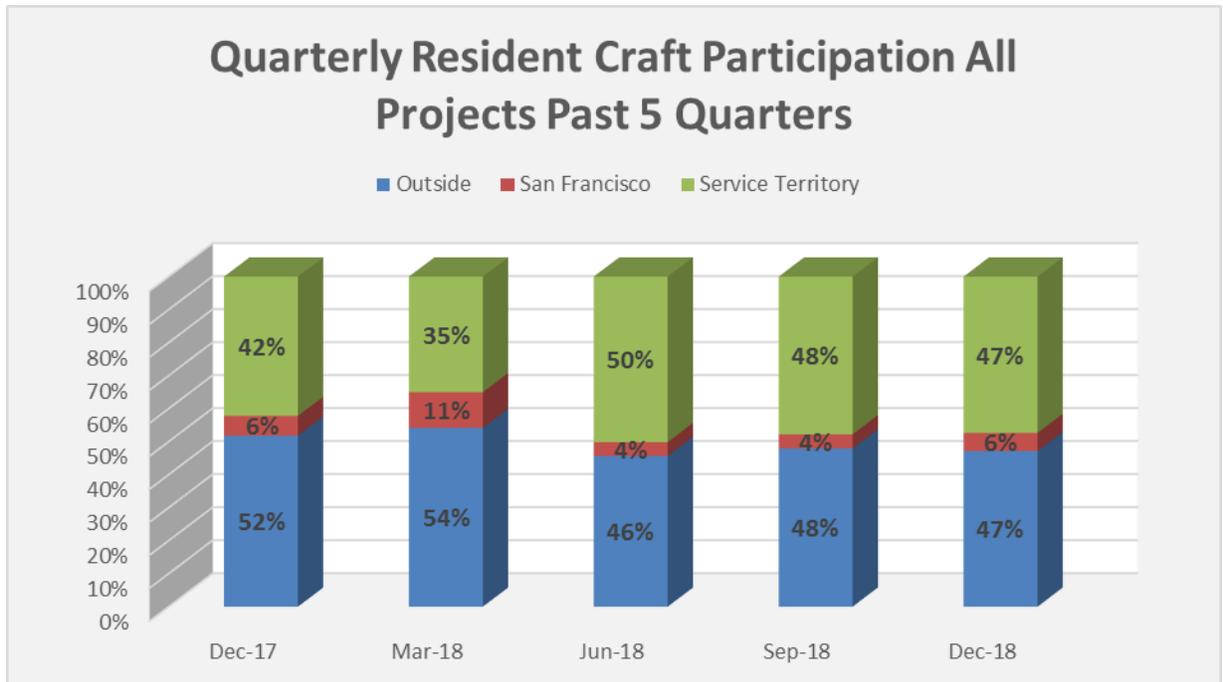
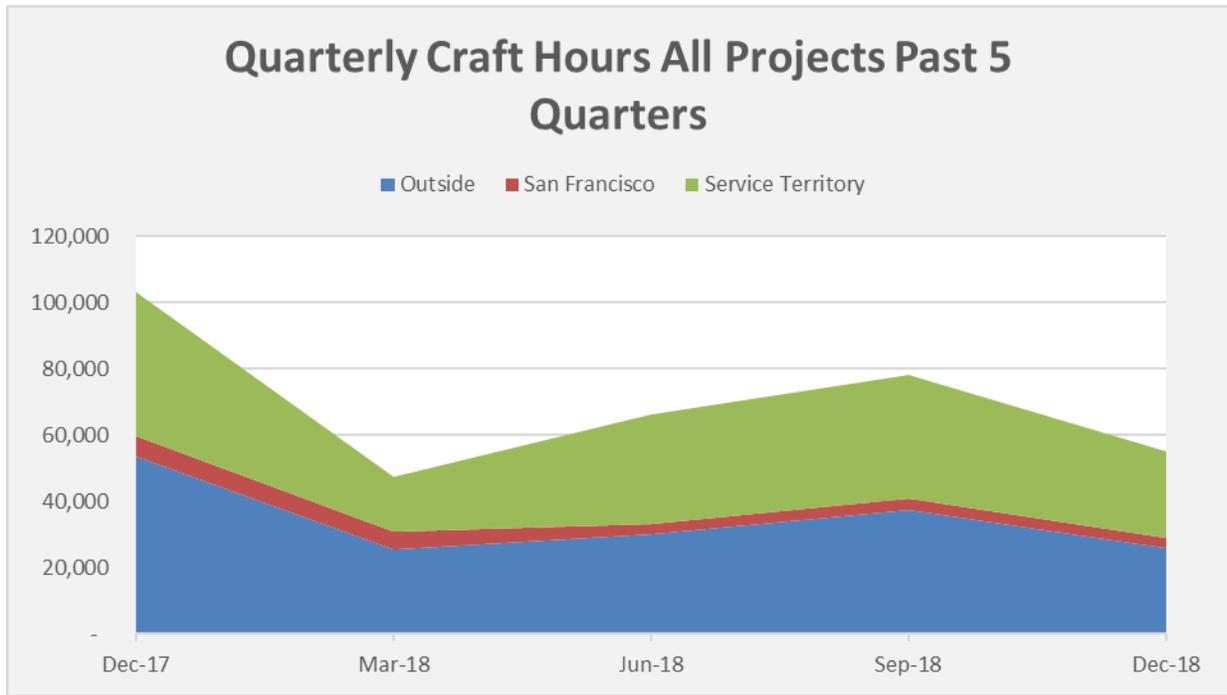
The Regional Service Territory, covering seven counties, is defined as zip codes outside San Francisco and within which the SFPUC delivers wholesale water, in addition to zip codes impacted by WSIP construction.

The following chart summarizes the employment percentages of residents of San Francisco and the Regional Service Territory on WSIP PLA-covered projects through December 31, 2018.



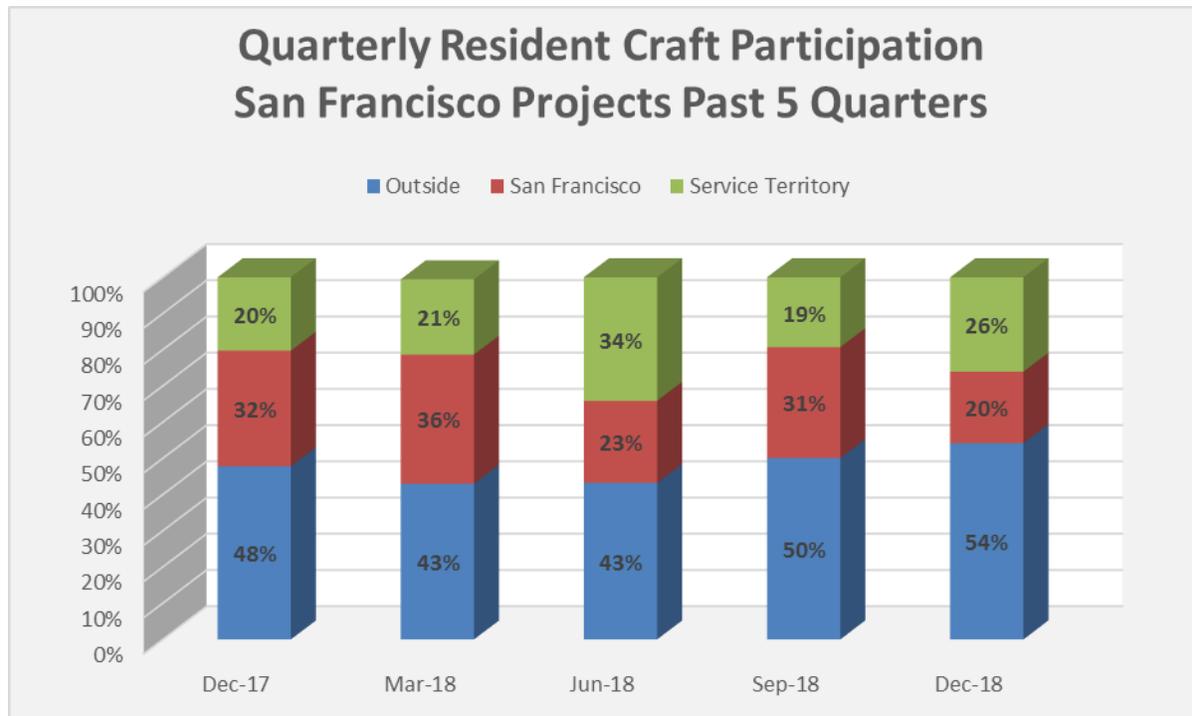
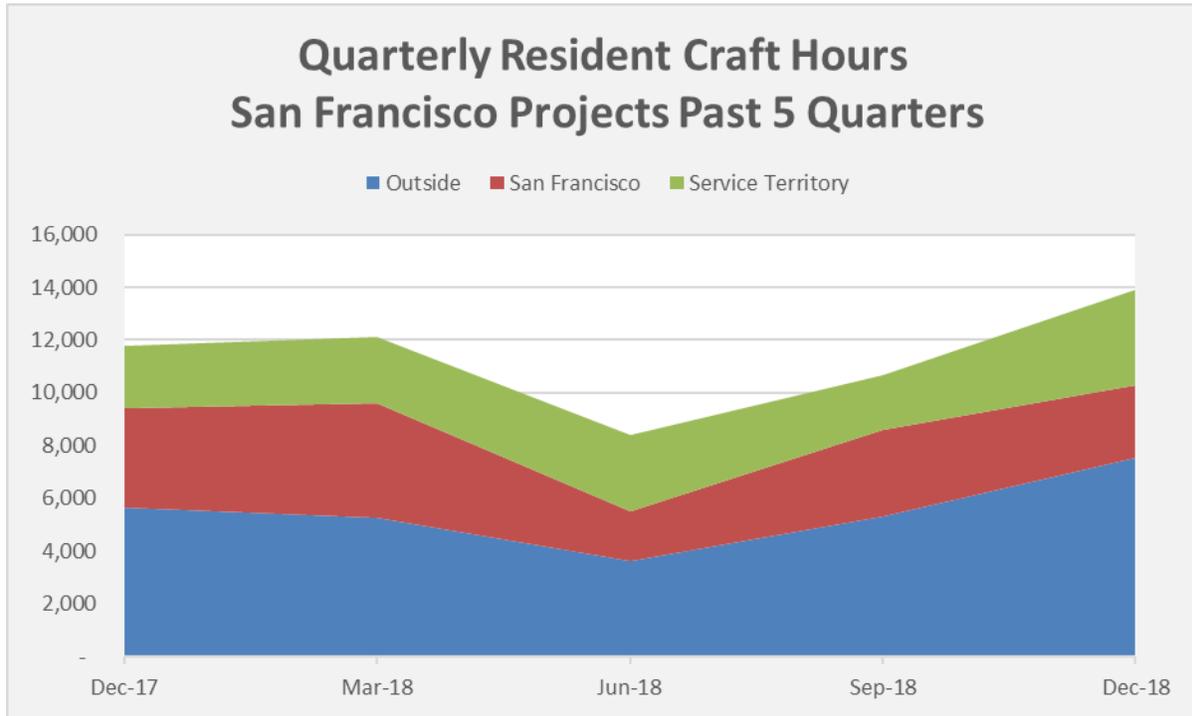
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**Residence on ALL WSIP PLA Projects** - Charted are 54 of the 54 total projects covered under the WSIP PLA within San Francisco and the Service Territory.



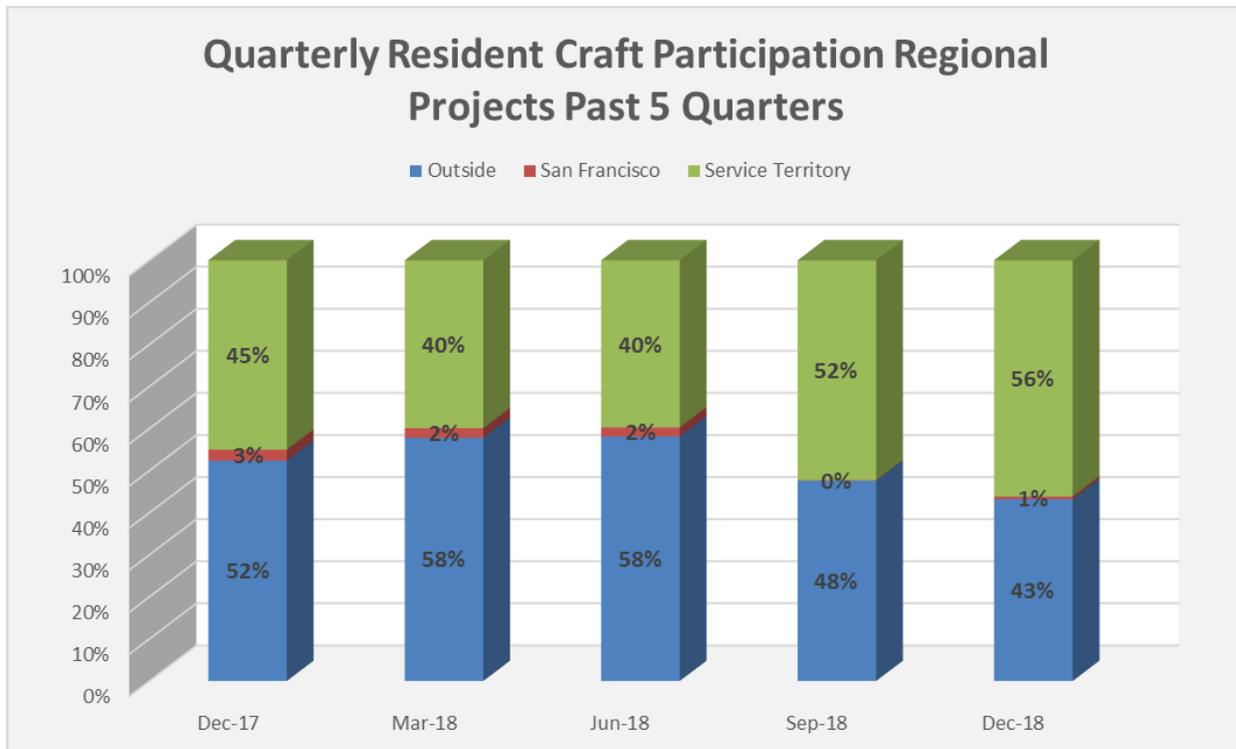
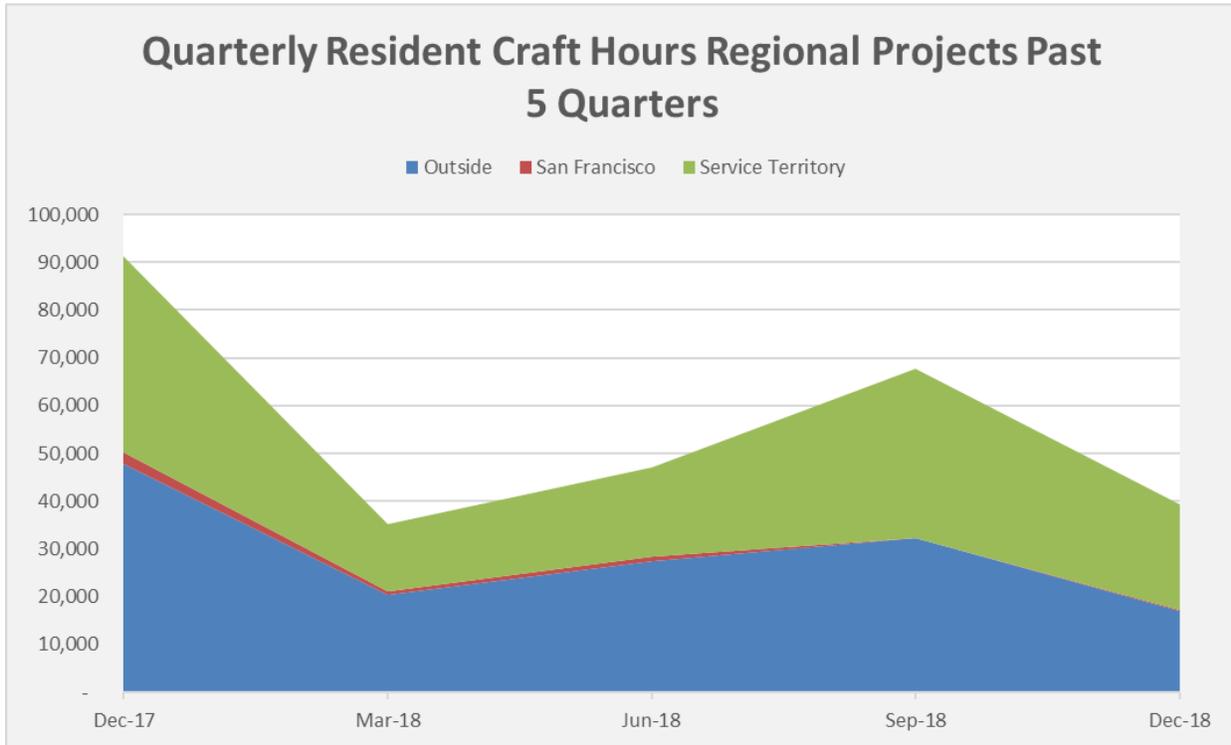
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**Residence on San Francisco-located WSIP PLA Projects** - Charted are the 16 projects covered by the WSIP PLA located within San Francisco only.



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**Residence on Regionally-located WSIP PLA Projects** - Charted are the 38 projects covered by the WSIP PLA located within the Regional Service Territory.



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**Residence by County**

Sorted by Total Craft Hours

<b>WSIP-PLA Employment by Top 20 Counties of Residence</b>					
Inception Through December 31, 2018					
County	Total Craft Hours	Wages	% Craft Hours	Worker Count	FTE
Alameda	1,513,019	\$ 56,566,685	17.9%	2,739	727
Contra Costa	1,201,307	\$ 47,370,111	14.2%	1,853	578
San Joaquin	827,274	\$ 31,271,372	9.8%	1,178	398
San Mateo	728,129	\$ 29,510,871	8.6%	1,170	350
<b>San Francisco</b>	<b>582,638</b>	<b>\$ 22,094,623</b>	<b>6.9%</b>	<b>1,189</b>	<b>280</b>
Santa Clara	438,179	\$ 17,497,557	5.2%	1,203	211
Solano	424,373	\$ 17,062,419	5.0%	803	204
Stanislaus	380,937	\$ 14,113,637	4.5%	586	183
Sacramento	343,255	\$ 14,014,327	4.1%	570	165
Butte	212,327	\$ 8,402,934	2.5%	127	102
Sonoma	182,620	\$ 7,366,684	2.2%	321	88
Placer	110,470	\$ 5,004,317	1.3%	127	53
Calaveras	101,552	\$ 4,515,018	1.2%	77	49
Tuolumne	100,611	\$ 3,909,906	1.2%	98	48
El Dorado	86,744	\$ 3,685,881	1.0%	83	42
Los Angeles	71,488	\$ 3,227,785	0.8%	143	34
Yolo	71,075	\$ 2,967,124	0.8%	87	34
Shasta	68,699	\$ 3,186,862	0.8%	43	33
Riverside	65,980	\$ 3,121,612	0.8%	111	32
Clark	61,915	\$ 2,831,513	0.7%	71	30
<b>Top 20 Counties by Hours</b>	<b>7,572,590</b>	<b>\$ 297,721,238</b>	<b>89.4%</b>	<b>12,579</b>	<b>3,641</b>
All Other Counties	898,239	\$ 39,673,456	10.6%	1,416	432
<b>WSIP-PLA Total</b>	<b>8,470,829</b>	<b>\$ 337,394,694</b>	<b>100.0%</b>	<b>13,995</b>	<b>4,073</b>

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**San Francisco Residents by Zip Code**

Sorted by Total Craft Hours

<b>Employment by San Francisco Zip Code</b>					
Inception Through December 31, 2018					
San Francisco Zip Codes	Total Workers				
	Total Craft Hours	Wages	% Total Craft Hours	Worker Count	FTE
94112	112,100	\$ 3,896,816	19.2%	194	54
94124	97,825	\$ 3,836,443	16.8%	243	47
94116	82,760	\$ 3,839,072	14.2%	78	40
94110	77,277	\$ 2,671,277	13.3%	164	37
94134	40,011	\$ 1,216,505	6.9%	112	19
94122	30,457	\$ 1,382,475	5.2%	60	15
94103	23,679	\$ 721,014	4.1%	36	11
94121	19,465	\$ 775,563	3.3%	46	9
94118	14,929	\$ 734,235	2.6%	21	7
94127	13,409	\$ 551,813	2.3%	20	6
94117	10,689	\$ 290,841	1.8%	18	5
94132	10,503	\$ 427,998	1.8%	29	5
94107	8,567	\$ 325,427	1.5%	24	4
94102	8,508	\$ 376,250	1.5%	19	4
94131	6,509	\$ 198,398	1.1%	21	3
94109	4,711	\$ 147,079	0.8%	19	2
94114	4,094	\$ 174,029	0.7%	14	2
94133	3,837	\$ 155,169	0.7%	7	2
94130	3,095	\$ 64,996	0.5%	9	1
94108	2,918	\$ 64,629	0.5%	6	1
94115	1,807	\$ 58,770	0.3%	22	1
94142	1,740	\$ 68,149	0.3%	7	1
94111	915	\$ 21,546	0.2%	3	0
94123	561	\$ 28,323	0.1%	2	0
94104	523	\$ 13,179	0.1%	2	0
94129	447	\$ 14,182	0.1%	1	0
94188	366	\$ 9,790	0.1%	3	0
94140	288	\$ 11,589	0.0%	1	0
94119	255	\$ 7,976	0.0%	1	0
94105	194	\$ 4,910	0.0%	3	0
94147	162	\$ 4,785	0.0%	1	0
94125	21	\$ 768	0.0%	1	0
94158	16	\$ 362	0.0%	2	0
94164	6	\$ 264	0.0%	1	0
<b>Total</b>	<b>582,638</b>	<b>\$ 22,094,623</b>	<b>100.0%</b>	<b>1,189</b>	<b>280</b>
<b>WSIP-PLA Total</b>	<b>8,470,829</b>	<b>\$ 337,394,694</b>	<b>-</b>	<b>13,995</b>	<b>4,073</b>

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**Residence by Craft**

Sorted by Total Hours

Cumulative Employment of Residents By Craft Inception Through December 31, 2018							
Craft	Total Hours	San Francisco Hours	SFPUC Service Territory Hours	Outside Hours	% San Francisco Hours	% Service Territory Hours	% Outside Hours
Operating Engineer	1,825,053	63,935	646,414	1,114,704	3.5%	35.4%	61.1%
Carpenter	732,236	85,063	300,198	346,976	11.6%	41.0%	47.4%
Tunnel Worker	612,964	11,171	208,750	393,043	1.8%	34.1%	64.1%
Electrician	464,505	23,118	249,604	191,782	5.0%	53.7%	41.3%
Plumber	419,081	87,648	138,917	192,515	20.9%	33.1%	45.9%
Iron Worker	267,242	18,008	102,295	146,939	6.7%	38.3%	55.0%
Pile Driver	181,108	6,526	53,970	120,612	3.6%	29.8%	66.6%
Painter	145,285	9,471	16,642	119,172	6.5%	11.5%	82.0%
Cement Mason	127,829	9,778	54,944	63,108	7.6%	43.0%	49.4%
Boilermaker	119,116	48	22,939	96,129	0.0%	19.3%	80.7%
Building/Construction Inspector	85,821	3,947	11,902	69,972	4.6%	13.9%	81.5%
Roofer	48,115	4,199	25,080	18,836	8.7%	52.1%	39.1%
Field Surveyor	21,587	1,353	4,038	16,197	6.3%	18.7%	75.0%
Sheet Metal Worker	18,179	2,217	10,217	5,746	12.2%	56.2%	31.6%
Drywall Installer/Lather	10,796	4,138	1,796	4,863	38.3%	16.6%	45.0%
Bricklayer	8,620	82	4,060	4,478	1.0%	47.1%	52.0%
Electrical Utility Lineman	6,797	-	186	6,611	0.0%	2.7%	97.3%
Plasterer	6,642	3,380	1,124	2,138	50.9%	16.9%	32.2%
Glazier	4,347	1,028	1,395	1,925	23.6%	32.1%	44.3%
Metal Roofing Systems Installer	2,586	39	2,252	296	1.5%	87.1%	11.4%
Brick Tender	895	287	19	589	32.1%	2.1%	65.8%
Asbestos Worker, Heat and Frost Insulation	704	-	205	499	0.0%	29.1%	70.9%
Carpet Layer	354	111	89	154	31.4%	25.1%	43.5%
Tile Setter	351	-	344	7	0.0%	98.0%	2.0%
Tile Finisher	277	-	237	40	0.0%	85.6%	14.4%
Terrazzo Worker	199	-	-	199	0.0%	0.0%	100.0%
Driver	182	182	-	-	100.0%	0.0%	0.0%
Marble Finisher	40	-	40	-	0.0%	100.0%	0.0%
Terrazzo Finisher	4	-	4	-	0.0%	100.0%	0.0%
<b>Total Apprenticeable</b>	<b>5,110,911</b>	<b>335,726</b>	<b>1,857,658</b>	<b>2,917,527</b>	<b>6.6%</b>	<b>36.3%</b>	<b>57.1%</b>
LABORER	2,901,394	220,318	1,256,307	1,424,769	7.6%	39.8%	58.5%
<b>Non-Apprenticeable</b>							
Teamster	135,463	9,147	79,761	46,554	6.8%	58.9%	34.4%
Driver (On/Off-Hauling To/From Construction Site)	97,691	16,246	65,652	15,793	16.6%	67.2%	16.2%
Operating Engineer (Heavy And Highway)	95,289	-	38,906	56,383	0.0%	40.8%	59.2%
Tunnel/Underground (Operating Engineer)	79,393	70	34,872	44,451	0.1%	43.9%	56.0%
Asbestos Removal Worker (Laborer)	17,057	951	2,161	13,945	5.6%	12.7%	81.8%
Tunnel/Underground (Operating Engineer)	13,201	-	3,832	9,369	0.0%	29.0%	71.0%
Water Well Driller	12,313	-	7,177	5,136	0.0%	58.3%	41.7%
Tree Trimmer (High Voltage Line Clearance)	1,422	32	1,191	199	2.3%	83.8%	14.0%
Telecommunications Technician	1,160	-	1,088	72	0.0%	93.8%	6.2%
Landscape Maintenance Laborer	1,131	16	614	501	1.4%	54.3%	44.3%
Steel Erector And Fabricator (Operator)	1,123	-	282	841	0.0%	25.1%	74.9%
Traffic Control/Lane Closure (Laborer)	888	-	691	198	0.0%	77.8%	22.2%
Dredger Operating Engineer	831	-	-	831	0.0%	0.0%	100.0%
Operating Engineer (Building Construction)	635	133	229	273	20.9%	36.1%	43.0%
Slurry Seal Worker	592	-	337	255	0.0%	56.9%	43.1%
Parking And Highway Improvement Personnel	247	-	165	82	0.0%	66.8%	33.2%
Ironworker (Db)	80	-	24	56	0.0%	30.0%	70.0%
Teamster (Special Single Shift Rate)	11	-	-	11	0.0%	0.0%	100.0%
<b>Total Non-Apprenticeable</b>	<b>458,524</b>	<b>26,595</b>	<b>236,982</b>	<b>194,948</b>	<b>5.8%</b>	<b>51.7%</b>	<b>42.5%</b>
<b>Total WSIP PLA</b>	<b>8,470,829</b>	<b>582,638</b>	<b>3,350,946</b>	<b>4,537,245</b>	<b>6.9%</b>	<b>39.6%</b>	<b>53.6%</b>

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**Residence by Project**

Sorted by Total Hours

Employment Summary - Cumulative Employment of Residents by Project							
Craft Employment Summary Through December 31, 2018							
Project	Total Hours	San Francisco Hours	Service Territory Hours	Outside Hours	% San Francisco Hours	% SFPUC Service Territory Hours	% Outside Hours
WD-2551 - Calaveras Dam Replaceme	1,496,287	4,646	550,565	941,076	0.3%	36.8%	62.9%
WD-2596 - HTWTP Long-Term Improver	1,013,848	49,559	368,135	596,155	4.9%	36.3%	58.8%
WD-2581 - New Irvington Tunnel	730,536	4,132	319,860	406,545	0.6%	43.8%	55.7%
WD-2531 - Bay Division Pipelines Relia	583,318	15,154	257,574	310,590	2.6%	44.2%	53.2%
WD-2601 - Crystal Springs / San Andre	489,160	25,325	193,302	270,533	5.2%	39.5%	55.3%
WD-2582 - Sunol Valley Water Treatme	462,423	9,292	174,479	278,653	2.0%	37.7%	60.3%
WD-2542 - Bay Division Pipeline No. 5	288,044	5,836	129,660	152,548	2.0%	45.0%	53.0%
CS-936 - AMI	227,027	78,220	83,691	65,115	34.5%	36.9%	28.7%
WD-2541 - Bay Division Pipeline No. 5	208,058	13,608	85,977	108,472	6.5%	41.3%	52.1%
WD-2539 - University Mound Reservoir	187,016	49,450	51,060	86,507	26.4%	27.3%	46.3%
WD-2729 - Fish Passage Facilities - Al	161,176	1,159	69,361	90,657	0.7%	43.0%	56.2%
WD-2668 - Regional Groundwater Stora	155,479	25,937	78,742	50,800	16.7%	50.6%	32.7%
WD-2627R - Sutro Reservoir Rehabilitat	154,545	49,147	39,763	65,635	31.8%	25.7%	42.5%
HH-935C - San Joaquin Pipeline - Easte	143,988	83	80,508	63,397	0.1%	55.9%	44.0%
DB-116 - Tesla Treatment Facility	141,910	3,122	93,841	44,948	2.2%	66.1%	31.7%
WD-2629 - Seismic Upgrade of Bay Div	134,349	1,815	52,403	80,131	1.4%	39.0%	59.6%
WD-2552 - Alameda Siphon No. 4 Proj	129,485	1,450	54,019	74,017	1.1%	41.7%	57.2%
WD-2555 - Crystal Springs Pipeline No	127,763	31,147	36,395	60,221	24.4%	28.5%	47.1%
WD-2498 - New Crystal Springs Bypass	117,821	9,557	64,371	43,894	8.1%	54.6%	37.3%
WD-2652 - BHR - San Antonio Creek	110,655	3,693	45,574	61,388	3.3%	41.2%	55.5%
WD-2548 - Lake Merced Pump Station	101,050	28,541	25,790	46,720	28.2%	25.5%	46.2%
HH-935B - San Joaquin Pipeline - West	100,492	111	41,614	58,767	0.1%	41.4%	58.5%
WD-2591 - Lower Crystal Springs Dam	98,562	5,463	52,743	40,356	5.5%	53.5%	40.9%
HH-935A - San Joaquin Pipeline - Cross	84,483	223	45,318	38,942	0.3%	53.6%	46.1%
WD-2513 - San Andreas Pipeline No.3	83,503	6,978	28,219	48,306	8.4%	33.8%	57.8%
WD-2575 - San Antonio Backup Pipelin	75,263	8,780	31,767	34,716	11.7%	42.2%	46.1%
WD-2504 - Stanford Heights Reservoir S	74,294	14,461	20,361	39,472	19.5%	27.4%	53.1%
WD-2501 - Alemany Pump Station	74,085	8,629	29,073	36,382	11.6%	39.2%	49.1%
WD-2727 - Peninsula Pipeline Seismic	69,772	13,891	23,679	32,203	19.9%	33.9%	46.2%
WD-2543 - North University Mound Sys	53,265	13,940	14,613	24,713	26.2%	27.4%	46.4%
WD-2621R - SF Groundwater Supply W	52,559	14,641	8,947	28,972	27.9%	17.0%	55.1%
WD-2573 - Pulgas Balancing Reservoir	50,367	6,669	25,461	18,237	13.2%	50.6%	36.2%
WD-2568 - BDPL Nos. 3&4 Crossover P	47,910	4,201	13,222	30,486	8.8%	27.6%	63.6%
WD-2641R - Habitat Reserve Program	44,018	8,771	10,167	25,081	19.9%	23.1%	57.0%
WD-2564 - HTWTP - Short Term Improv	43,049	8,445	15,208	19,397	19.6%	35.3%	45.1%
WD-2798 - SF Westside Recycled Wat	38,039	11,846	12,495	13,699	31.1%	32.8%	36.0%
WD-2654R - Peninsula Vegetation Rem	30,464	4,839	9,727	15,897	15.9%	31.9%	52.2%
WD-2776 - SF Westside Recycled Wat	28,690	8,533	7,679	12,478	29.7%	26.8%	43.5%
WD-2469 - Forest Knolls Pump Station	26,553	6,156	5,766	14,631	23.2%	21.7%	55.1%
WD-2666 - BHR - Sheep Camp Creek	23,492	46	6,377	17,069	0.2%	27.1%	72.7%
WD-2623 - Harding Park Recycled Wat	22,727	4,776	12,625	5,327	21.0%	55.6%	23.4%
WD-2651R - Peninsula 2011 Watershed	22,569	557	10,940	11,072	2.5%	48.5%	49.1%
WD-2529 - Noe Valley Transmission Ma	22,511	6,853	7,279	8,379	30.4%	32.3%	37.2%
WD-2665 - Bav Division Pipeline No. 5,	21,967	227	5,528	16,213	1.0%	25.2%	73.8%
WD-2556 - Baden and San Pedro Valve	19,939	2,720	15,270	1,949	13.6%	76.6%	9.8%
WD-2622 - SF Groundwater Supply Pip	17,782	3,487	2,138	12,157	19.6%	12.0%	68.4%
WD-2566 - San Antonio Pump Station	14,916	101	11,948	2,868	0.7%	80.1%	19.2%
HH-914R - Roselle Crossover Improvem	12,859	0	8,861	3,999	0.0%	68.9%	31.1%
WD-2809 - SF Groundwater Supply Pha	11,769	1,776	1,483	8,511	15.1%	12.6%	72.3%
HH-953 - Tesla Portal Protection	11,512	3,338	6,185	1,990	29.0%	53.7%	17.3%
WD-2511 - Standby Power Facilities	11,275	281	6,500	4,494	2.5%	57.6%	39.9%
WD-2640 - Bioregional Habitat Restora	10,621	667	4,028	5,926	6.3%	37.9%	55.8%
WD-2600 - Regional Groundwater Stora	6,088	0	296	5,792	0.0%	4.9%	95.1%
WD-2589 - SCADA System Phase II	1,498	368	363	767	24.6%	24.2%	51.2%
<b>Total WSIP PLA</b>	<b>8,470,829</b>	<b>582,638</b>	<b>3,350,946</b>	<b>4,537,245</b>	<b>6.9%</b>	<b>39.6%</b>	<b>53.6%</b>

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**Apprentice Utilization**

The WSIP PLA supports the apprentice ratios provided by the State of California’s, Division of Apprenticeship Standards, generally one apprentice hour to every five journey-level hours.

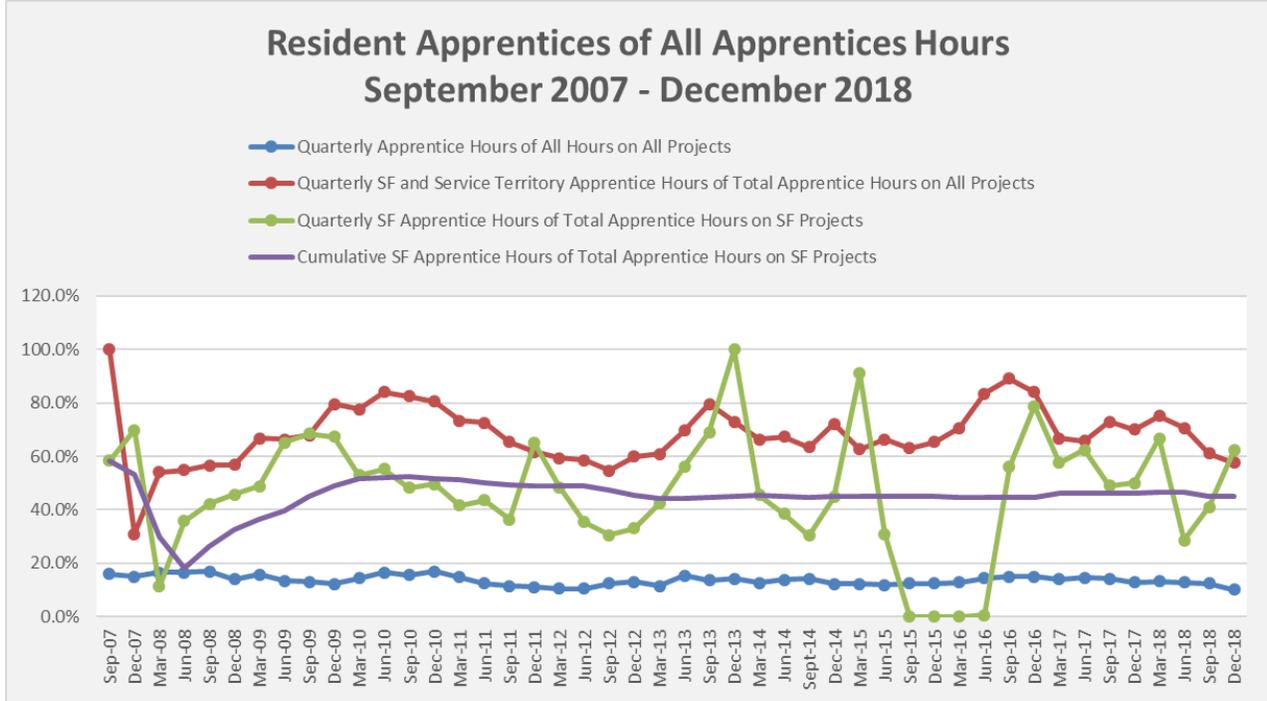
Through the end of the current quarter, 13.2% of craft hours in apprenticeable trades have been worked by apprentices. 16% of apprentice hours were worked by San Francisco residents and 54% were worked by residents of the Regional Service Territory, or 70% combined.

Sorted by Total Craft Hours

Craft	Total Hours	Total Apprentice Hours	Apprentice Hours			Apprentice Utilization			Resident Apprentice %		
			San Francisco Hours	SFPUC ST Hours	Outside Hours	Apprentice % of Total Craft Hours	San Francisco Apprentice % of Total Craft Hours	Service Territory Apprentice % of Total Craft Hours	% of Craft Apprentice Hours Performed by San Francisco Residents	% of Craft Apprentice Hours Performed by Service Territory Residents	% of Craft Apprentice Hours Performed by Outside Residents
A - Operating Engineer	1,825,053	208,132	25,276	85,451	97,406	11.4%	1.4%	4.7%	12.1%	41.1%	46.8%
A - Carpenter	732,236	115,969	30,514	55,367	30,088	15.8%	4.2%	7.6%	26.3%	47.7%	25.9%
A - Tunnel Worker	612,964	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Electrician	464,505	87,045	9,264	62,236	15,545	18.7%	2.0%	13.4%	10.6%	71.5%	17.9%
A - Plumber	419,081	115,145	33,812	56,994	25,339	27.5%	8.1%	13.4%	29.4%	48.6%	22.0%
A - Iron Worker	267,242	59,566	10,819	26,547	22,200	22.3%	4.0%	9.9%	18.2%	44.6%	37.3%
A - Pile Driver	181,108	18,563	4,451	9,825	4,287	10.2%	2.5%	5.4%	24.0%	52.9%	23.1%
A - Painter	145,285	25,069	1,693	6,247	17,129	17.3%	1.2%	4.3%	6.8%	24.9%	68.3%
A - Cement Mason	127,829	6,076	3,809	1,116	1,151	4.8%	3.0%	0.9%	62.7%	18.4%	18.9%
A - Boilemaker	119,116	2,354	40	1,238	1,076	2.0%	0.0%	1.0%	1.7%	52.6%	45.7%
A - Building/Construction Inspector	85,821	4,232	5	1,249	2,978	4.9%	0.0%	1.5%	0.1%	29.5%	70.4%
A - Roofer	48,115	11,925	1,914	5,279	4,732	24.8%	4.0%	11.0%	16.1%	44.3%	39.7%
A - Field Surveyor	21,587	898	19	173	706	4.2%	0.1%	0.8%	2.1%	19.3%	78.6%
A - Sheet Metal Worker	18,179	2,877	293	1,555	1,030	15.8%	1.6%	8.6%	10.2%	54.0%	35.8%
A - Drywall Installer/Lather	10,796	473	60	283	130	4.4%	0.6%	2.6%	12.7%	59.8%	27.5%
A - Bricklayer	8,620	2,682	82	573	2,027	31.1%	1.0%	6.6%	3.1%	21.3%	75.6%
A - Electrical Utility Lineman	6,797	79	-	79	-	1.2%	0.0%	1.2%	0.0%	100.0%	0.0%
A - Plasterer	6,642	347	136	-	211	5.2%	2.0%	0.0%	39.2%	0.0%	60.8%
A - Glazier	4,347	564	402	20	142	13.0%	9.2%	0.5%	71.3%	3.5%	25.2%
A - Metal Roofing Systems Installer	2,586	757	-	757	-	29.3%	0.0%	29.3%	0.0%	100.0%	0.0%
A - Brick Tender	895	24	24	-	-	2.7%	2.7%	0.0%	100.0%	0.0%	0.0%
A - Asbestos Worker, Heat and Frost	704	26	-	-	26	3.7%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Carpet Layer	354	27	-	23	4	7.6%	0.0%	6.5%	0.0%	85.2%	14.8%
A - Tile Setter	351	20	-	20	-	5.7%	0.0%	5.7%	0.0%	0.0%	0.0%
A - Tile Finisher	277	40	-	-	40	14.4%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Terrazzo Worker	199	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Driver	182	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Marble Finisher	40	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Terrazzo Finisher	4	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sub-Total Apprenticeable	5,110,911	662,888	122,612	314,030	226,246	13.0%	2.4%	6.1%	18.5%	47.4%	34.1%
A - Laborer	2,901,394	398,214	44,147	258,845	95,222	13.7%	1.5%	8.9%	11.1%	65.0%	23.9%
Total Apprenticeable	8,012,304	1,061,102	166,759	572,875	321,468	13.2%	2.1%	7.1%	15.7%	54.0%	30.3%
Total Non-Apprenticeable	458,524										
Total WSIP - Covered by PLA	8,470,829										

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For the three months ending December 31, 2018, 62% of apprentice hours were worked by San Francisco resident apprentices on San Francisco-located WSIP PLA projects (green line). As the WISP program comes to a close, there are fewer opportunities for apprentices to perform work on projects resulting in the decrease of apprentice participation.



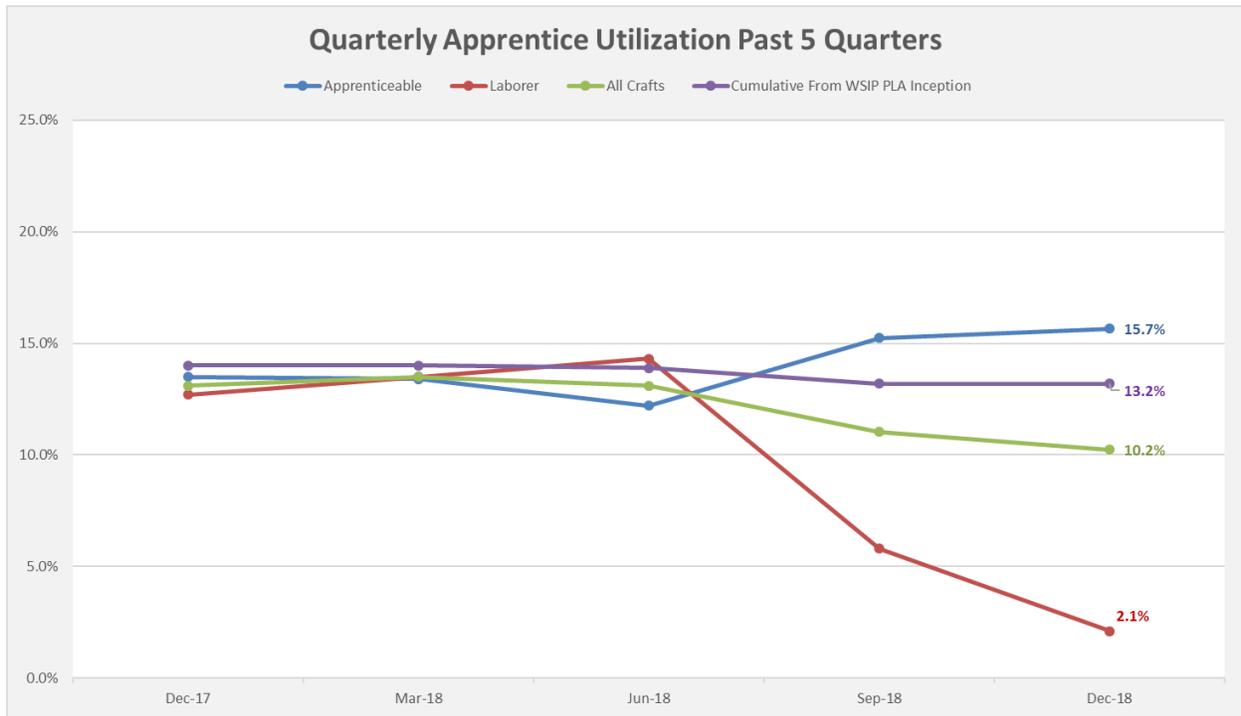
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The table below lists the WSIP PLA-covered Projects *sorted by Percentage of Apprentice Utilization* from highest to lowest. The total Apprentice Utilization for the entire WSIP is 13.2%.

WSIP - Covered by PLA Apprentice Utilization By Project Inception Through December 31, 2018											
Project	Apprentice Utilization By Project										
	All Workers Hours					Apprentice Hours			Apprentice Utilization %		
	Total Craft Hours	Total Hours of Apprenticeable Trades	Total Non-Apprenticeable Hours	Total Laborer Hours	Total Apprenticeable and Laborer Hours	Apprenticeable Trades Hours	Apprentice Laborer Hours	Total Apprentice Hours	Apprenticeable Trades %	Apprentice Laborer %	Total Apprentice %
CS-936 - AMI	227,027	226,142	-	885	227,027	79,373	-	79,373	35.1%	0.0%	35.0%
HH-953 - Tesla Portal Protection	11,512	4,377	133	7,002	11,379	487	2,768	3,255	11.1%	39.5%	28.6%
WD-2641R - Habitat Reserve Program	44,018	7,406	52	36,561	43,966	1,467	7,755	9,222	19.8%	21.2%	21.0%
DB-116 - Tesla Treatment Facility	141,910	97,738	1,863	42,310	140,047	16,580	10,411	26,991	17.0%	24.6%	19.3%
WD-2729 - Fish Passage Facilities - Ala	161,176	108,101	6,045	47,030	155,131	25,274	4,478	29,752	23.4%	9.5%	19.2%
WD-2652 - BHR - San Antonio Creek	110,655	19,428	2,526	88,700	108,128	1,492	19,170	20,661	7.7%	21.6%	19.1%
WD-2798 - SF Westside Recycled Wate	38,039	6,652	-	31,387	38,039	1,170	6,085	7,255	17.6%	19.4%	19.1%
WD-2727 - Sutro Reservoir Rehabilitation	69,772	30,072	3,583	36,117	66,189	4,312	7,547	11,858	14.3%	20.9%	17.9%
WD-2552 - Alameda Siphon No. 4 Projec	129,485	75,401	8,009	46,075	121,476	11,667	9,053	20,720	15.5%	19.6%	17.1%
WD-2575 - San Antonio Backup Pipeline	75,263	45,723	1,151	28,389	74,112	6,488	5,972	12,460	14.2%	21.0%	16.8%
WD-2498 - New Crystal Springs Bypass	117,821	93,680	12,599	11,543	105,223	12,361	5,252	17,612	13.2%	45.5%	16.7%
WD-2668 - Regional Groundwater Stora	155,479	97,242	1,079	57,157	154,399	18,459	7,351	25,810	19.0%	12.9%	16.7%
WD-2640 - Bioregional Habitat Restorati	10,621	4,487	813	5,321	9,809	701	914	1,615	15.6%	17.2%	16.5%
WD-2539 - University Mound Reservoir S	187,016	106,316	1,199	79,502	185,818	23,851	6,500	30,350	22.4%	8.2%	16.3%
WD-2629 - Seismic Upgrade of Bay Divi	134,349	73,390	1,614	59,448	132,838	8,297	13,294	21,590	11.3%	22.4%	16.3%
WD-2651R - Peninsula 2011 Watershed	22,569	4,777	3,239	14,554	19,331	763	2,372	3,135	16.0%	16.3%	16.2%
WD-2573 - Pulgas Balancing Reservoir S	50,367	35,362	310	14,695	50,056	7,144	673	7,817	20.2%	4.6%	15.6%
HH-914R - Roselle Crossover Improveme	12,859	7,968	163	4,729	12,697	1,384	559	1,943	17.4%	11.8%	15.3%
WD-2582 - Sunol Valley Water Treatmer	462,423	293,860	13,009	155,554	449,414	49,266	19,350	68,616	16.8%	12.4%	15.3%
WD-2596 - HTWTP Long-Term Improvem	1,013,848	675,958	39,423	298,468	974,425	108,428	35,995	144,423	16.0%	12.1%	14.8%
WD-2600 - Regional Groundwater Stora	6,088	-	4,027	2,061	2,061	-	296	296	0.0%	14.3%	14.3%
WD-2627R - Sutro Reservoir Rehabilitat	154,545	77,338	8,900	68,308	145,645	15,391	5,248	20,639	19.9%	7.7%	14.2%
WD-2556 - Baden and San Pedro Valve	19,939	11,046	344	8,550	19,595	951	1,788	2,738	8.6%	20.9%	14.0%
WD-2504 - Stanford Heights Reservoir S	74,294	40,444	-	33,851	74,294	9,134	757	9,891	22.6%	2.2%	13.3%
WD-2513 - San Andreas Pipeline No. 3 In	83,503	28,638	11,956	42,909	71,547	3,994	5,317	9,311	13.9%	12.4%	13.0%
WD-2622 - SF Groundwater Supply Pipe	17,782	4,623	1,682	11,477	16,100	266	1,827	2,092	5.7%	15.9%	13.0%
WD-2551 - Calaveras Dam Replacement	1,496,287	843,504	35,819	616,964	1,460,469	85,355	98,383	183,738	10.1%	15.9%	12.6%
WD-2566 - San Antonio Pump Station U	14,916	8,241	137	6,539	14,780	859	939	1,798	10.4%	14.4%	12.2%
HH-935C - San Joaquin Pipeline - Easter	143,988	89,174	1,840	52,974	142,148	8,862	8,401	17,263	9.9%	15.9%	12.1%
WD-2621R - SF Groundwater Supply We	52,559	31,647	-	20,912	52,559	4,322	1,903	6,225	13.7%	9.1%	11.8%
WD-2469 - Forest Knolls Pump Station	26,553	17,167	49	9,355	26,522	2,888	19	2,907	16.8%	0.2%	11.0%
WD-2555 - Crystal Springs Pipeline No.	127,763	49,074	9,731	69,487	118,561	7,559	5,394	12,953	15.4%	7.8%	10.9%
WD-2548 - Lake Merced Pump Station	101,050	72,875	1,672	26,504	99,378	10,670	137	10,807	14.6%	0.5%	10.9%
HH-935A - San Joaquin Pipeline - Crosse	84,483	53,744	839	29,900	83,644	5,357	3,652	9,009	10.0%	12.2%	10.8%
HH-935B - San Joaquin Pipeline - Weste	100,492	52,940	11,926	35,875	88,814	4,061	5,243	9,304	7.7%	14.6%	10.5%
WD-2601 - Crystal Springs / San Andrea	489,160	334,614	23,708	131,493	466,106	37,795	10,916	48,710	11.3%	8.3%	10.5%
WD-2541 - Bay Division Pipeline No. 5 -	208,058	88,905	12,802	106,410	195,315	10,026	10,170	20,196	11.3%	9.6%	10.3%
WD-2501 - Alemnay Pump Station	74,085	54,295	48	19,741	74,037	7,403	223	7,625	13.6%	1.1%	10.3%
WD-2542 - Bay Division Pipeline No. 5 -	288,044	90,020	31,498	166,526	256,546	7,049	19,161	26,210	7.8%	11.5%	10.2%
WD-2568 - BDPL Nos. 3&4 Crossover F	47,910	31,539	2,093	14,278	45,817	3,818	720	4,538	12.1%	5.0%	9.9%
WD-2776 - SF Westside Recycled Wate	28,690	17,825	81	10,785	28,609	2,226	606	2,832	12.5%	5.6%	9.9%
WD-2591 - Lower Crystal Springs Dam I	98,562	41,053	1,162	56,348	97,400	4,833	3,853	8,685	11.8%	6.8%	8.9%
WD-2665 - Bav Division Pipeline No. 5, C	21,967	10,548	234	11,185	21,733	168	1,741	1,909	1.6%	15.6%	8.8%
WD-2581 - New Irvington Tunnel	730,536	546,830	99,798	83,908	630,738	31,860	19,891	51,750	5.8%	23.7%	8.2%
WD-2666 - BHR - Sheep Camp Creek	23,492	16,708	336	6,784	23,492	228	1,615	1,843	1.4%	23.8%	7.8%
WD-2589 - SCADA System Phase II	1,498	728	-	771	1,498	115	-	115	15.8%	0.0%	7.7%
WD-2623 - Harding Park Recycled Wate	22,727	7,869	456	14,403	22,271	696	949	1,645	8.8%	6.6%	7.4%
WD-2531 - Bay Division Pipelines Reliab	583,318	412,690	91,164	79,535	492,226	14,153	18,238	32,391	3.4%	22.9%	6.6%
WD-2543 - North University Mound Syste	53,265	14,383	7,082	31,800	46,183	743	2,255	2,998	5.2%	7.1%	6.5%
WD-2809 - SF Groundwater Supply Phas	11,769	4,856	-	6,913	11,769	413	257	670	0.0%	3.7%	5.7%
WD-2654R - Peninsula Vegetation Remc	30,464	5,842	189	24,433	30,275	24	1,694	1,718	0.4%	6.9%	5.7%
WD-2511 - Standby Power Facilities	11,275	9,046	-	2,230	11,275	626	-	626	6.9%	0.0%	5.6%
WD-2529 - Noe Valley Transmission Ma	22,511	6,021	2,067	14,423	20,444	-	1,133	1,133	0.0%	7.9%	5.5%
WD-2564 - HTWTP - Short Term Improve	43,049	22,612	80	20,358	42,969	2,089	-	2,089	9.2%	0.0%	4.9%
<b>WSIP - Covered by PLA (53 Projects + A</b>	<b>8,470,829</b>	<b>5,110,911</b>	<b>458,524</b>	<b>2,903,413</b>	<b>8,014,323</b>	<b>662,888</b>	<b>398,214</b>	<b>1,061,102</b>	<b>13.0%</b>	<b>13.7%</b>	<b>13.2%</b>

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The following chart indicates quarterly Apprentice Utilization over the past five (5) quarters ending December 31, 2018.



### **Substance Abuse Prevention**

The WSIP PLA requires pre-employment alcohol and drug testing for all covered employees. The policy also allows testing where the contractor has reasonable cause to believe that the employee has used drugs or alcohol, and mandates testing where a contractor concludes that an employee was under the influence of drugs or alcohol at the time of an accident. The SFPUC has extended the WSIP PLA substance abuse prevention policy to all contractor employees working on a job site.

**14,747** pre-employment tests have been administered as of December 31, 2018 to people who were cleared to work. 198 people did not pass pre-employment screens and consequently were prevented from working until the results could be confirmed through lab tests. Strict regulations and high compliance by the contractors have led to a mere **1.34%** of failed screenings. These numbers have a direct correlation with the outstanding safety record of the entire WSIP Enterprise. The chart is on the next page.

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<b>WSIP - Covered by PLA (54 Projects + AMI) Substance Abuse Testing Summary</b>	
Tests Administered to Individuals Cleared to Work Through 12/31/2018	
Project	Number Cleared
WD-2596 - Harry Tracy Water Treatment Plant Long-Term Improvements	2,401
WD-2551 - Calaveras Dam Replacement Project	2,101
WD-2601 - Crystal Springs / San Andreas Transmission System Upgrade	1,282
WD-2582 - Sunol Valley Water Treatment Plant and Treated Water Reservoir	704
WD-2581 - New Irvington Tunnel	651
WD-2531 - Bay Division Pipelines Reliability Upgrade - Bay Tunnel	581
WD-2548 - Lake Merced Pump Station Essential Upgrades	531
WD-2541 - Bay Division Pipeline No. 5 - East Bay Reaches	509
WD-2501 - Alemany Pump Station	375
DB-116 - Tesla Treatment Facility	374
HH-935C - San Joaquin Pipeline System - Eastern Segment & Other Facilities	335
WD-2539 - University Mound Reservoir North Basin Seismic Upgrades	319
WD-2542 - Bay Division Pipeline No. 5 - Peninsula Reaches	305
WD-2668 - Regional Groundwater Storage and Recovery	265
CS-936 - Advanced Meter Infrastructure	229
WD-2552 - Alameda Siphon No. 4 Project	229
HH-935B - San Joaquin Pipeline System - Western Segment	226
WD-2629 - Seismic Upgrade of Bay Division Pipeline Nos. 3&4 at the Hayward Fault	226
WD-2627R - Sutro Reservoir Rehabilitation and Seismic Upgrade	217
WD-2498 - New Crystal Springs Bypass (Polhemus) Tunnel	212
WD-2504 - Stanford Heights Reservoir Seismic Retrofit and Improvement	199
HH-935A - San Joaquin Pipeline System - Crossovers	186
WD-2573 - Pulgas Balancing Reservoir Structural Rehabilitation and Roof Replacement	184
WD-2568 - BDPL Nos. 3&4 Crossover Facilities	180
WD-2513 - San Andreas Pipeline No.3 Installation Project	178
WD-2729 - Fish Passage Facilities Within The Alameda Creek Watershed	150
WD-2575 - San Antonio Backup Pipeline	132
WD-2591 - Lower Crystal Springs Dam Improvements	125
WD-2469 - Forest Knolls Pump Station and Storage Tank Upgrade	115
WD-2555 - Crystal Springs Pipeline No.2 Replacement Project	98
WD-2621R - San Francisco Groundwater Supply Well Stations	97
WD-2564 - Harry Tracy Water Treatment Plant - Short Term Improvements Phases 2 and 3	95
WD-2652 - Bioregional Habitat Restoration, San Antonio Creek	90
WD-2556 - Baden and San Pedro Valve Lot Improvements	86
WD-2776 - San Francisco Westside Recycled Water Treatment Facility at Oceanside Plant	65
HH-914R - Roselle Crossover Improvements	72
WD-2566 - San Antonio Pump Station Upgrades Project	70
WD-2623 - Harding Park Recycled Water Project	65
WD-2651R - Peninsula 2011 Watershed Compensation, Sherwood Point, Adobe Gulch Creek, Skyline Quarry, Sky	63
WD-2727 - Peninsula Pipeline Seismic Upgrade	61
HH-953 - Tesla Portal Protection	59
WD-2543 - North University Mound System Upgrade	55
WD-2529 - Noe Valley Transmission Main - Phase II	47
WD-2665 - Bay Division Pipeline Reliability Upgrade Project - Bay Division Pipeline No. 5, Cordilleras Microtunnel	43
WD-2654R - Peninsula Vegetation Removal	34
WD-2511 - Standby Power Facilities, Various Locations	30
WD-2666 - Bioregional Habitat Restoration, Sheep Camp Creek	30
WD-2589 - Supervisory Control and Data Acquisition SCADA System Phase II	28
WD-2641R - Habitat Reserve Program, Homestead Pond, San Andreas Reservoir Wetlands, Adobe Gulch Grassland	23
WD-2600 - Regional Groundwater Storage and Recovery Project- Test Well Drilling	22
WD-2622 - San Francisco Groundwater Supply Pipeline	22
WD-2798 - San Francisco Westside Recycled Water Pipeline	20
WD-2809 - San Francisco Groundwater Supply Phase 2	8
WD-2640 - Bioregional Habitat Restoration	-
<b>Total Cleared</b>	<b>14,747</b>

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**Legislative History of the WSIP PLA**

On April 8, 2003, the San Francisco Board of Supervisors adopted Resolution 223-03 urging the SFPUC to develop plans for a Project Labor Agreement covering the capital improvement program to rehabilitate, repair, and upgrade the Hetch Hetchy Water System.

On May 20, 2003 the San Francisco Board of Supervisors adopted Resolution 350-03 urging the SFPUC to include social justice components in the Project Labor Agreement covering the Hetch Hetchy Water System upgrade.

On May 11, 2006 the San Francisco Board of Supervisors amended the San Francisco Administrative Code to establish a PUC Small firm Advisory Committee to provide for the certification of small construction contractors located outside San Francisco and within the SFPUC service territory for work on SFPUC construction projects, including those covered by the WSIP PLA.

On March 28, 2006 the SFPUC adopted Resolution No. 06-0049 to authorize SFPUC staff to commence negotiations with the various craft labor unions for a project labor agreement covering the Water System Improvement Program. Resolution No. 06-0049 concluded that the governmental interests of the SFPUC were furthered by a project labor agreement as follows:

“There are numerous advantages in moving forward on the negotiation of a PLA, which include but are not limited to the following: creates framework for labor harmony; militates against construction delays; assures steady supply of qualified labor; provides employment, career, and local business opportunities; and, other benefits ...”

On March 26, 2007, the SFPUC approved the negotiated agreement, called the Water System Improvement Program Project Labor Agreement (the WSIP PLA). The WSIP PLA requires construction contractors to utilize workers dispatched by signatory unions, and prohibits the unions and contractors from participating in strikes, lockouts, or other disruptions to the work. The WSIP PLA provides a procedure for adjudicating conflicting jurisdictional claims between the unions, provides for uniform hours of work, overtime, shifts and holidays, encourages the recruitment and training of low-income residents of the SFPUC service territory, and requires substance abuse testing for all covered workers. The first implementation of the WSIP PLA was on contract WD-2504, the Stanford Heights Reservoir Seismic Retrofit and Improvement project which the SFPUC awarded to S.J. Amoroso Construction Co. Inc. on Jun. 26, 2007 in the amount of \$17,899,960.

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**Governance**

The parties to the WSIP PLA have established a four person Joint Administrative Committee that reviews the implementation of the agreement and the progress of the covered projects, and resolves problems and grievances that arise in connection with the agreement. The SFPUC administers the agreement under the direction of the Joint Administrative Committee.

The Joint Administrative Committee has established the Jobs Training Opportunities Program to promote the employment and training of San Francisco and SFPUC Service Territory residents on WSIP projects.

**Pre-Job Conferences and Jurisdictional Disputes**

Prior to the commencement of construction, representatives of the participating contractors and subcontractors, the Unions, and the SFPUC, are mandated to attend a pre-job conference held at the offices of the SFPUC or the offices of the local Building and Construction Trades Council. At the pre-job conference each contractor and subcontractor describes the scope of their work and assigns the work on the basis of traditional craft jurisdictional lines. When conflicting claims for work are submitted to a contractor, the WSIP PLA's Jurisdictional Dispute Resolution procedure is invoked to prevent delay or disruption in the work due to jurisdictional disputes.

**Web-Based Labor Compliance Program**

All SFPUC construction projects including those covered by the WSIP PLA utilize the City's web-based labor compliance program (Elation Systems, Inc.) which allows contractors to submit their weekly certified payroll reports electronically over the internet. Elation Systems' electronic certified payrolls are used to produce the employment data included in this report.



HETCH HETCHY

WATER SYSTEM **IMPROVEMENT** PROGRAM

# **Water System Improvement Program Project Labor Agreement**

**Quarterly Report  
Quarter Ended March 31, 2019  
(Third Quarter FY 2018-2019)**

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San Francisco Public Utilities Commission  
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**Executive Summary**

Since it was adopted on March 16, 2007 the WSIP Project Labor Agreement (PLA) has promoted the public interest by ensuring the timely and economical completion of WSIP projects. The WSIP PLA has provided the structure to promote efficiency of construction of the WSIP, facilitate the partnership between the SFPUC, Unions, and Contractors, provide for peaceful settlement of labor disputes, and facilitate the employment of residents.

Progress on WSIP construction projects provides employment for construction workers employed by union-signatory and non-union construction contractors. Fifty-seven (57) WSIP contracts have been awarded subject to the WSIP PLA in the amount of \$2.200 billion in original contract award through March 31, 2019.

Construction Activity Highlights – Program-to-Date

**Contracting:**

- Fifty-seven (57) construction contracts with a value of \$2.200 billion in original contract award have been awarded subject to the WSIP PLA.

**Employment:**

- Since inception, 14,112 construction workers were employed for 8,513,563 hours and earned wages of \$339,425,383 on WSIP PLA-covered projects.
- 1,202 San Francisco residents worked 586,718 hours and earned \$22,256,395 on WSIP PLA-covered projects representing 7% of covered hours and 282 full-time equivalent worker years.
- The SFPUC Regional Service Territory consists of zip codes in seven counties outside of San Francisco, both in the vicinity of WSIP construction and within which the SFPUC delivers water. 5,814 residents of the Regional Service Territory earned wages of \$130,094,669 and worked 3,368,858 hours, representing 40% of covered hours and 1,620 full-time equivalent worker years.
- 14,828 pre-employment substance abuse tests have been administered to employees cleared to work on WSIP PLA-covered projects as of March 31, 2019. 200 people were prevented from working on WSIP PLA-covered projects due to receiving a non-negative result.

Region of Worker Residence	Inception Through March 31, 2019			
	Worker Count	Sum of Hours	Sum of Wages	FTE
All Workers	14,112	8,513,563	\$ 339,425,383	4,093
San Francisco	1,202	586,718	\$ 22,256,395	282
SFPUC Service Territory	5,814	3,368,858	\$ 130,094,669	1,620
Outside	7,096	4,557,987	\$ 187,074,319	2,191

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Construction Activity Highlights – Quarter Ending March 31, 2019

**Contracting:**

- There were three contracts awarded during the reporting period: WD-2822R2 – Lower Crystal Springs Dam Stilling Basin, WD-2829R – San Andreas Pipeline #2, and WD-2855 – Turner Dam Spillway.

**Employment:**

- 337 construction workers were employed for 42,734 hours and earned wages of \$2,030,689 on WSIP PLA-covered projects.
- 46 San Francisco residents worked 4,080 hours and earned wages of \$161,772 on WSIP PLA-covered projects.
- The SFPUC Regional Service Territory consists of zip codes in seven counties outside of San Francisco, both in the vicinity of WSIP construction and within which the SFPUC delivers water. During this quarter, 123 residents of the Regional Service Territory worked 17,912 hours and earned wages of \$812,308 on WSIP PLA-covered projects.
- 81 pre-employment substance abuse screenings were administered under the provisions of the WSIP PLA Substance Abuse Policy and two individuals were prevented from working as the result of a positive test.

**Summary of Craft Worker Employment**

Region of Worker Residence	Three Months Ending March 31, 2019			
	Worker Count	Sum of Hours	Sum Of Wages	FTE*
All Workers	<b>337</b>	<b>42,734</b>	<b>\$ 2,030,689</b>	<b>21</b>
San Francisco	<b>46</b>	<b>4,080</b>	<b>\$ 161,772</b>	<b>2</b>
SFPUC Service Territory	<b>123</b>	<b>17,912</b>	<b>\$ 812,308</b>	<b>7</b>
Outside	<b>168</b>	<b>20,742</b>	<b>\$ 1,056,609</b>	<b>12</b>

\*FTE is the abbreviation for Full Time Equivalent. Since the workers on the projects may only work a few hours or days on the project, this is a way to determine the number of full time positions created. It is found by taking the Sum of Hours divided by 2,080, the conventional value for total hours worked per year based on a 40-hour work week.

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**Summary of WSIP PLA-Covered Contract Awards**

Sorted by Award Date

Construction Contracts Awarded Subject to the WSIP-PLA					
Inception through March 31, 2019					
Award Date	Contract No.	Prime Contractor	Project	Engineer's Estimate	Award \$
03/12/19	WD-2855	Sukut Construction, LLC,	Turner Dam Spillway and Pond F3 East Erosion Repair	\$2.9 Million	\$ 1,498,010
01/22/19	WD-2829R	Ranger Pipelines Inc.	San Andreas Pipeline No. 2 Replacement	\$29 to \$34 Million	\$ 32,087,200
01/22/19	WD-2822R2	Anvil Builders Inc	Lower Crystal Springs Dam Stilling Basin Connecting Ch	\$5.8 Million	\$ 4,784,700
05/09/17	WD-2776*	S.J. Amoroso Construction Co., Inc.	San Francisco Westside Recycled Water Treatment Facil	\$70 to 80 Million	\$ 87,597,000
01/24/17	WD-2809*	Western Water Constructors, Inc.	San Francisco Groundwater Supply Phase 2	\$11.2 Million	\$ 9,780,000
11/08/16	WD-2798*	JMB CONSTRUCTION INC	San Francisco Westside Recycled Water Pipeline	\$28.6 Million	\$ 21,729,720
01/12/16	WD-2729	Shimmick Construction	Fish Passage Facilities Within the Alameda Creek Water	\$30 Million	\$ 28,939,300
10/27/15	WD-2654R	NTK Construction	Peninsula Vegetation Removal	\$10.8 Million	\$ 11,062,544
01/13/15	WD-2668	Ranger Pipelines Inc	Regional Groundwater Storage and Recovery	\$50 Million	\$ 42,980,047
01/13/15	WD-2621R*	Western Water Constructors, Inc.	San Francisco Groundwater Supply Well Stations	\$16 Million	\$ 14,955,100
05/27/14	WD-2622*	Ranger Pipelines Inc	San Francisco Groundwater Supply Pipeline	\$13.6 Million	\$ 8,676,685
01/28/14	WD-2727	Ranger Pipelines Inc	Peninsula Pipeline Seismic Upgrade	\$22.5 Million	\$ 20,736,380
01/22/13	WD-2575	Ranger Pipelines Inc	San Antonio Backup Pipeline	\$34 to \$38 Million	\$ 31,372,335
06/26/12	WD-2627R*	S.J.Amoroso	Sutro Reservoir Rehabilitation	\$28 to \$36 Million	\$ 27,453,000
06/26/12	WD-2666	Shimmick Construction	Bioregional Habitat Restoration, Sheep Camp Creek	\$2.7 Million	\$ 3,912,500
06/12/12	WD-2629	Steve P. Rados	Bay Division Pipeline 3&4 at the Hayward Fault	\$49 to \$54 Million	\$ 31,320,000
04/23/12	WD-2651R	Shimmick Construction	Peninsula 2011 Watershed Compensation, Sherwood Po	\$5.9 to \$6.7 Million	\$ 5,591,750
12/13/11	HH-953	Azul Works, Inc.	Tesla Portal Protection	\$2.4 Million	\$ 2,760,000
12/13/11	WD-2600*	Road Runner Drilling	Regional Groundwater Storage and Recovery-Test Well	\$3.6 to \$4.2 Million	\$ 2,998,685
12/13/11	WD-2665	Steve P. Rados	Cordilleras Micro Tunnel	\$5.8 Million	\$ 5,251,100
11/08/11	WD-2652	Gordon N. Ball, Inc	Bioregional Habitat Restoration, San Antonio Creek	\$13 Million	\$ 12,947,400
09/13/11	WD-2641R	Yerba Buena Engineering	Habitat Reserve Program, Homestead Pond, San Andrea	\$6.4 Million	\$ 6,499,000
06/28/11	WD-2640	Yerba Buena Engineering	Bioregional Habitat Restoration - Goldfish Pond	\$2.4 Million	\$ 3,188,000
06/14/11	HH-935C	Contri Constmction,	San Joaquin Pipeline System - Eastern Segment	\$52 to \$57 Million	\$ 45,329,416
05/24/11	WD-2551	Dragados/Flatiron/Sukut JV	Calaveras Dam Replacement Project,	\$250 to \$300 Million	\$ 259,571,850
01/27/11	WD-2596	Kiewit Infrastructure West	Harry Tracy Water Treatment Plant Long-Term	\$220 to \$245 Million	\$ 174,197,000
01/11/11	WD-2555	Ranger Pipelines Inc	Crystal Springs Pipeline No.2	\$43 to \$48 Million	\$ 32,547,350
12/14/10	HH-935B	Mountain Cascade, Inc	San Joaquin Pipeline - Western Segment	\$70 Million	\$ 48,706,379
12/14/10	WD-2591	Kiewit Infrastructure West	Lower Crystal Springs Dam Improvements	\$18 to \$22 Million	\$ 17,360,400
09/14/10	WD-2601	Kiewit Infrastructure West	Crystal Springs / San Andreas Upgrade	\$100 to \$130 Million	\$ 99,763,000
09/14/10	WD-2623*	R & W Concrete	Harding Park Recycled Water Proiect	\$6.5 Million	\$ 5,251,100
06/08/10	WD-2581	Southland/Tutor Perini JV	New Irvington Tunnel	\$230 to \$260 Million	\$ 226,657,700
04/27/10	WD-2582	Shimmick Construction	Sunol Valley Water Treatment Plant	\$109 Million	\$ 83,102,160
04/13/10	HH-935A	West Bay Builders	San Joaquin Pipeline System - Crossovers	\$21.6 Million	\$ 11,723,817
12/18/09	WD-2531	Michels/JayDee/Coluccio, JV	Bay Tunnel	\$235 to \$260 Million	\$ 215,294,530
12/08/09	WD-2542	Mountain Cascade,	Bay Division Pipeline No. 5 - Peninsula Reaches	\$62 to \$69 Million	\$ 52,183,400
10/27/09	WD-2541	Ranger Pipelines Inc	Bay Division Pipeline Reliability Upgrade-East Bay	\$88 to \$98 Million	\$ 61,558,005
10/27/09	WD-2589	Ranger Pipelines Inc	Supervisory Control and Data Acquisition Phase II	\$10.6 Million	\$ 3,847,250
09/22/09	WD-2573	S.J.Amoroso	Pulgas Reservoir Structural Rehabilitation	\$14 to \$18 Million	\$ 12,857,000
09/08/09	WD-2566	Mountain Cascade	San Antonio Pump Station Upgrades Project	\$8.5 to \$9.5 Million	\$ 6,991,000
07/14/09	HH-914R	Mountain Cascade	Roselle Crossover Improvements	\$3.1 Million	\$ 2,837,000
06/23/09	WD-2513	Mountain Cascade	San Andreas Pipeline No.3 Installation Project	\$20 to \$25 Million	\$ 16,336,350
06/23/09	WD-2539*	S.J. Amoroso	University Mound Reservoir North Basin	\$47 to \$52 Million	\$ 29,597,000
05/26/09	WD-2552	Steve P. Rados	Alameda Siphon No. 4 Project	\$45.5 Million	\$ 31,933,695
04/28/09	WD-2568	Shimmick Construction	BDPL Nos. 3&4 Crossover Facilities	\$21.5 Million	\$ 12,695,000
04/17/09	WD-2548*	Western Water	Lake Merced Pump Station Essential Upgrades	\$52 to \$60 Million	\$ 31,584,000
03/10/09	CS-936*	VSI Meter Services	Advanced Meter Infrastructure	\$62.8 Million	\$ 62,822,980
02/24/09	WD-2556	JMB Construction	Baden and San Pedro Valve Lot Improvements	\$15 to \$18 Million	\$ 11,536,500
12/09/08	WD-2529*	KJ Woods	Noe Valley Transmission Main- Phase 2	\$6 to \$8 Million	\$ 5,724,000
10/14/08	WD-2498	Shank/Balfour-Beatty	New Crystal Springs Bypass Tunnel	\$55 to \$65 Million	\$ 55,674,000
09/23/08	DB-116	PCL Constructors	Tesla Treatment Facility	\$90 Million	\$ 81,420,562
09/09/08	WD-2543*	Shaw Pipeline Inc.	North University Mound System Upgrade	\$15 to \$18 Million	\$ 13,529,370
05/27/08	WD-2564	NTK Construction	Harry Tracy Water Treatment Plant-Short Term	\$15 to \$18 Million	\$ 13,824,000
12/11/07	WD-2469*	Cal State Constructors	Forest Knolls Pump Station and Storage Tank	\$5.5 to \$7 Million	\$ 6,547,000
12/07/07	WD-2501*	Monterey Mechanical	Alemany Pump Station	\$18 to \$22 Million	\$ 23,269,000
11/13/07	WD-2511	Power Engineering	Standby Power Facilities, Various Locations	\$5.7 Million	\$ 8,419,000
06/26/07	WD-2504*	S.J. Amoroso	Stanford Heights Reservoir Seismic Retrofit	\$18 to \$24 Million	\$ 17,899,960
<b>Total 57 Projects</b>					<b>\$ 2,200,711,230</b>

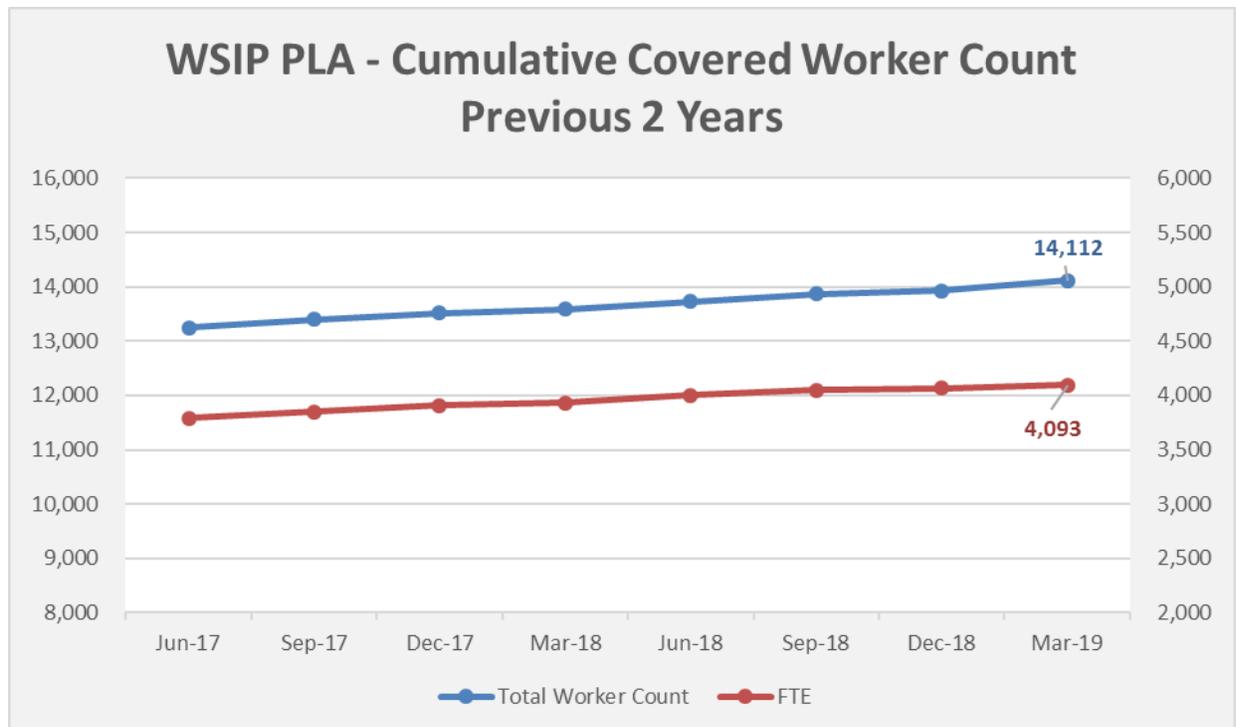
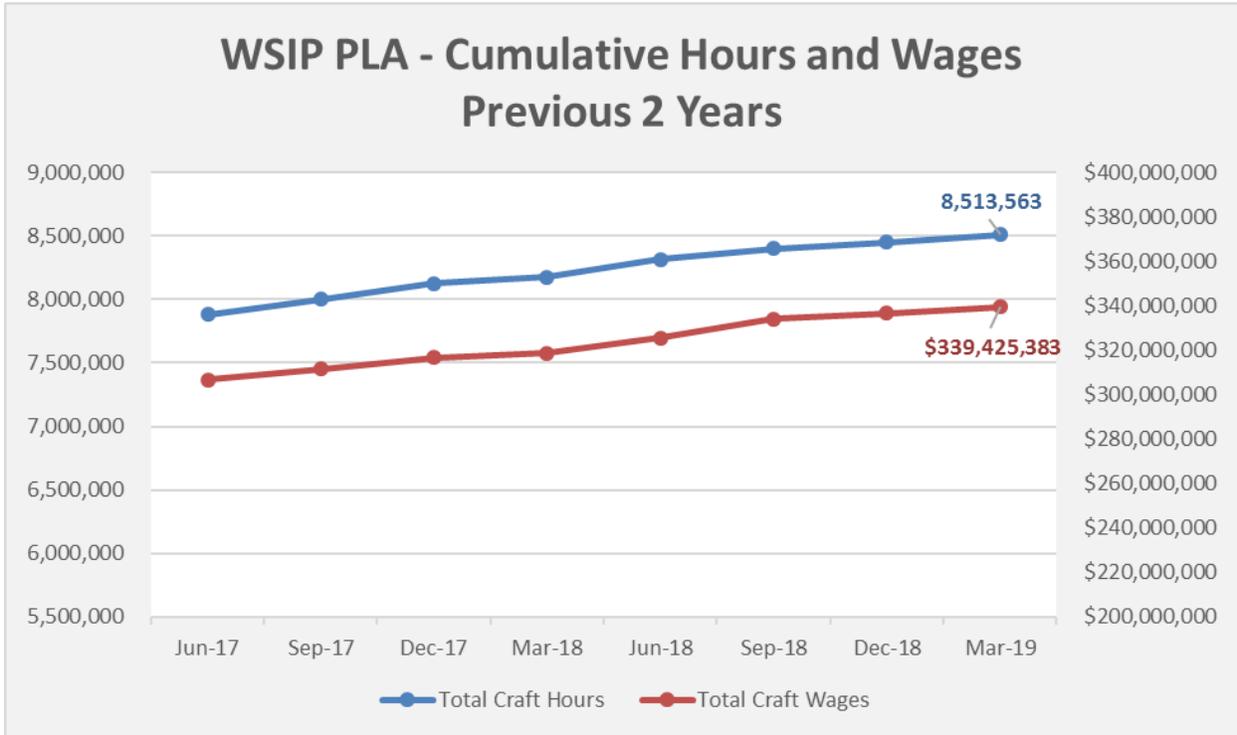
\* Indicates projects located in San Francisco

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**Summary Charts**

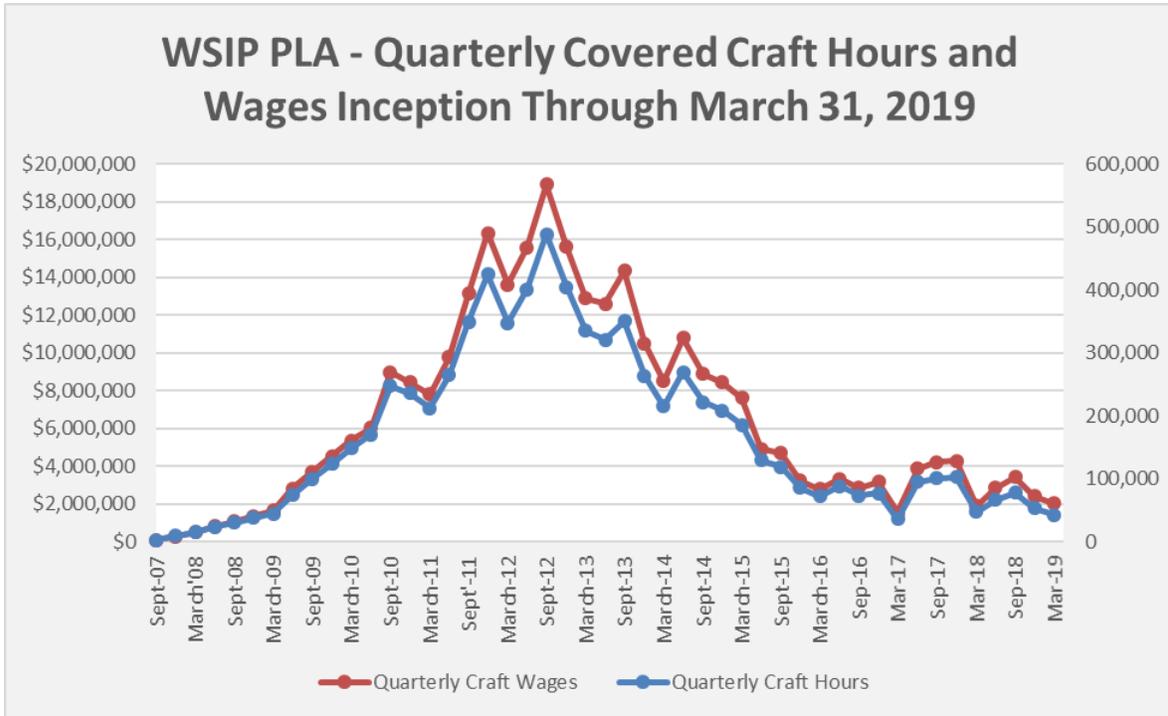
From the inception of the WSIP Project Labor Agreement in March 2007 through the current quarter ending March 31, 2019; 14,112 workers on WSIP PLA-covered projects have achieved a cumulative total of 8,513,563 craft hours and \$339,425,383 in craft wages.

The tables below describe the progressive accumulation of these totals over the past two years.

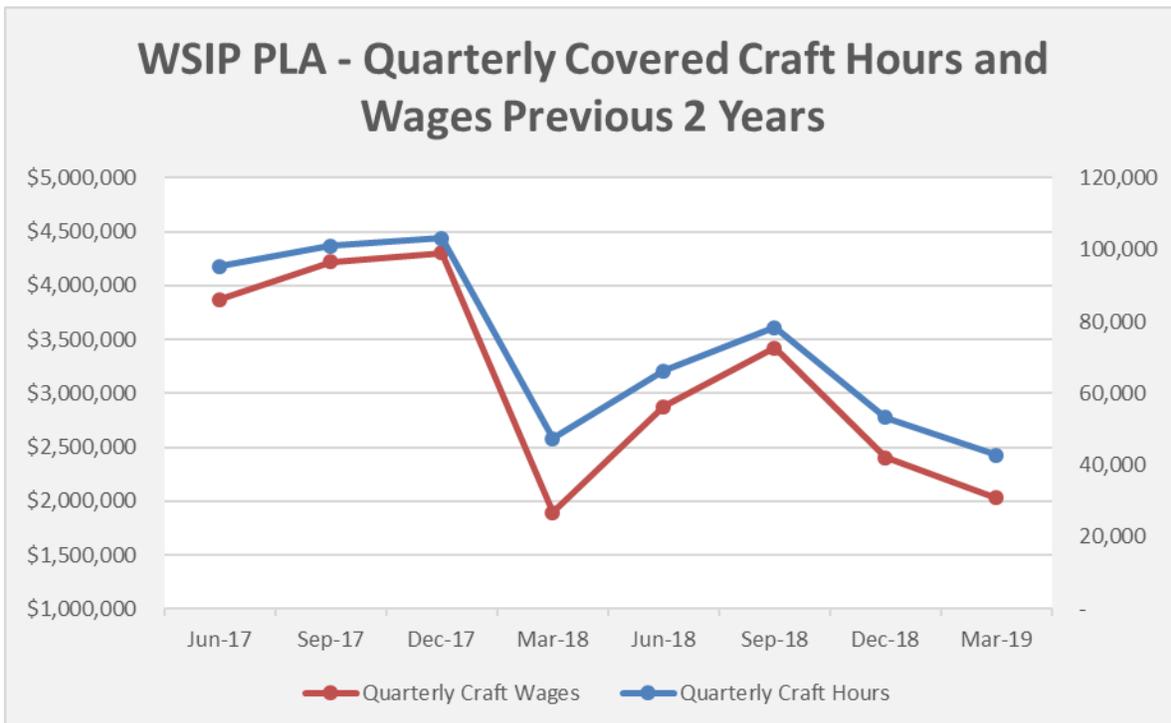


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The top chart on this page illustrates the values recorded *during* each quarter since inception. With the program surpassing 90% total completion, Craft Hours have and will likely continue to trend down until total completion.



The chart below represents a close-up of the one above; highlighting the past two years.



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**Craft Utilization on WSIP PLA-Covered Projects**

As of March 31, 2019, contractors reported craft hours in 54 craft worker classifications that the SFPUC summarizes into 30 craft areas.

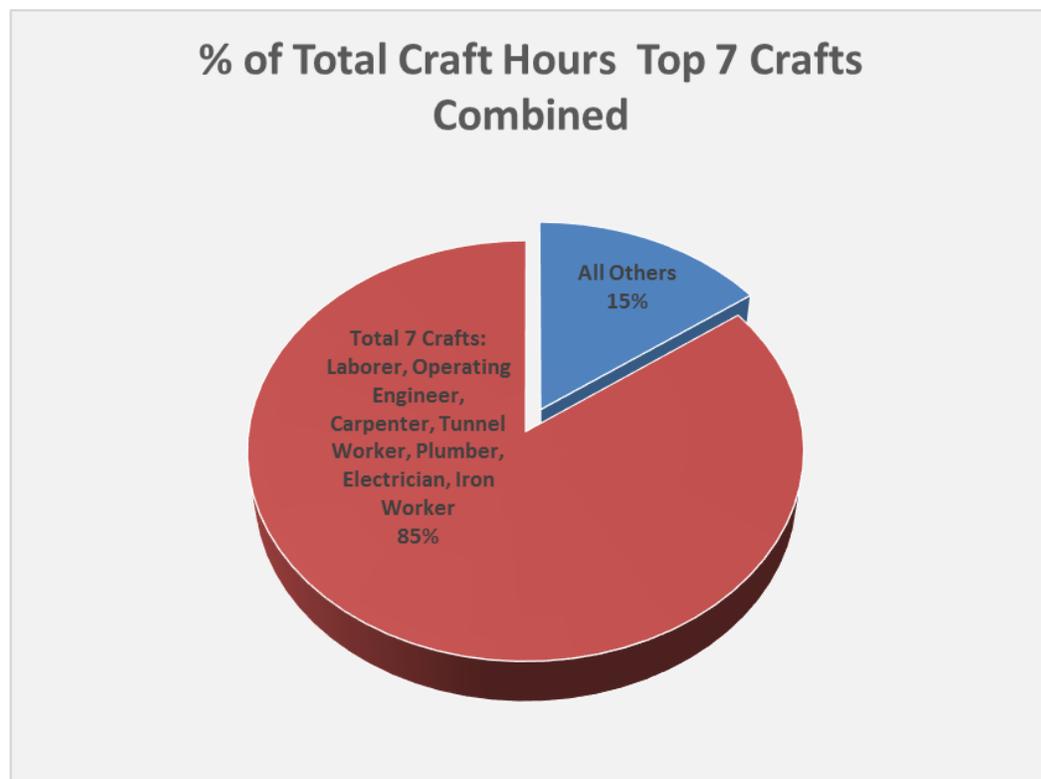
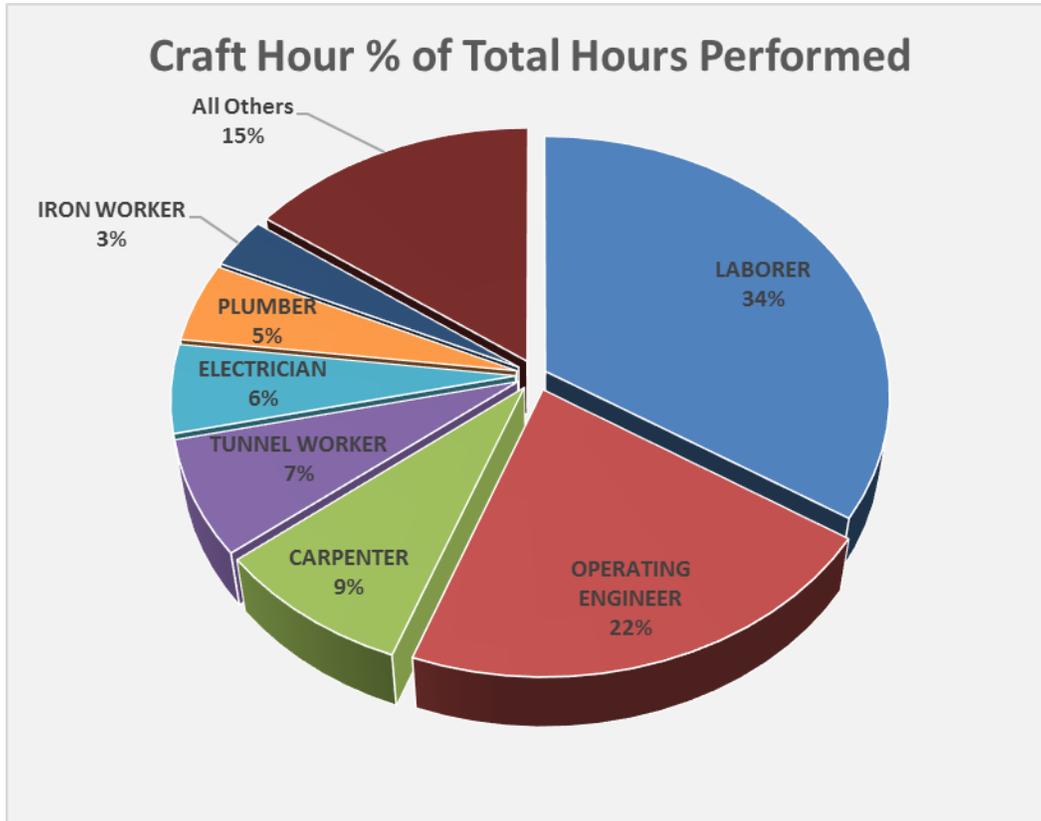
Illustrated here and in the following pages, Laborers, Operating Engineers, Carpenters, and Tunnel Workers, respectively, represent the majority of WSIP PLA craft workers to date. The Plumbers craft numbers include the Advanced Meter Infrastructure (AMI) project which was almost completely performed by Plumbers.

Sorted by Total Craft Hours

<b>Cumulative Employment by Craft</b>					
Inception Through March 31, 2019					
Craft	Total Hours	Total Wages	% Craft Hours of Total Hours	% Wages of Total Wages	FTE
Laborer	2,915,368	\$ 90,383,768	34.2%	26.6%	1,402
Operating Engineer	1,834,086	\$ 77,081,847	21.5%	22.7%	882
Carpenter	738,349	\$ 31,302,959	8.7%	9.2%	355
Tunnel Worker	612,964	\$ 26,175,557	7.2%	7.7%	295
Electrician	470,019	\$ 24,852,478	5.5%	7.3%	226
Plumber	421,270	\$ 19,767,501	4.9%	5.8%	203
Iron Worker	268,435	\$ 9,264,294	3.2%	2.7%	129
<b>Top 7 Sub-Total</b>	<b>7,260,490</b>	<b>\$ 278,828,403</b>	<b>85.3%</b>	<b>82.1%</b>	<b>3,491</b>
Pile Driver	181,756	\$ 9,710,458	2.1%	2.9%	87
Painter	145,640	\$ 5,689,348	1.7%	1.7%	70
Cement Mason	127,925	\$ 4,502,346	1.5%	1.3%	62
Boilermaker	119,116	\$ 6,273,157	1.4%	1.8%	57
Building/Construction Inspector	87,170	\$ 4,932,721	1.0%	1.5%	42
Roofer	48,356	\$ 1,637,520	0.6%	0.5%	23
Field Surveyor	21,701	\$ 1,243,279	0.3%	0.4%	10
Sheet Metal Worker	18,669	\$ 891,332	0.2%	0.3%	9
Drywall Installer/Lather	10,796	\$ 458,160	0.1%	0.1%	5
Bricklayer	8,620	\$ 329,139	0.1%	0.1%	4
Plasterer	7,556	\$ 270,024	0.1%	0.1%	4
Electrical Utility Lineman	6,909	\$ 425,367	0.1%	0.1%	3
Glazier	4,347	\$ 214,828	0.1%	0.1%	2
Metal Roofing Systems Installer	2,586	\$ 92,217	0.0%	0.0%	1
Asbestos Worker, Heat and Frost Insu	904	\$ 54,695	0.0%	0.0%	0
Brick Tender	895	\$ 30,418	0.0%	0.0%	0
Carpet Layer	354	\$ 16,311	0.0%	0.0%	0
Tile Setter	351	\$ 12,929	0.0%	0.0%	0
Tile Finisher	277	\$ 5,836	0.0%	0.0%	0
Terrazzo Worker	199	\$ 8,163	0.0%	0.0%	0
Driver	182	\$ 19,110	0.0%	0.0%	0
Marble Finisher	40	\$ 1,342	0.0%	0.0%	0
Terrazzo Finisher	4	\$ 160	0.0%	0.0%	0
<b>Remaining Apprenticeable Sub-Total</b>	<b>794,350</b>	<b>\$ 36,818,861</b>	<b>9.3%</b>	<b>10.8%</b>	<b>382</b>
<b>Total Non-Apprenticeable</b>	<b>458,723</b>	<b>\$ 23,778,120</b>	<b>5.4%</b>	<b>7.0%</b>	<b>221</b>
<b>Total WSIP-Covered by PLA</b>	<b>8,513,563</b>	<b>\$ 339,425,383</b>	<b>100.0%</b>	<b>100.0%</b>	<b>4,093</b>

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This chart summarizes WSIP PLA-covered craft employment for trades with the largest number of craft hours as of March 31, 2019. Laborers, Operating Engineers, Carpenters, and Tunnel Workers combined represent 72% of craft hours worked on PLA-covered projects.



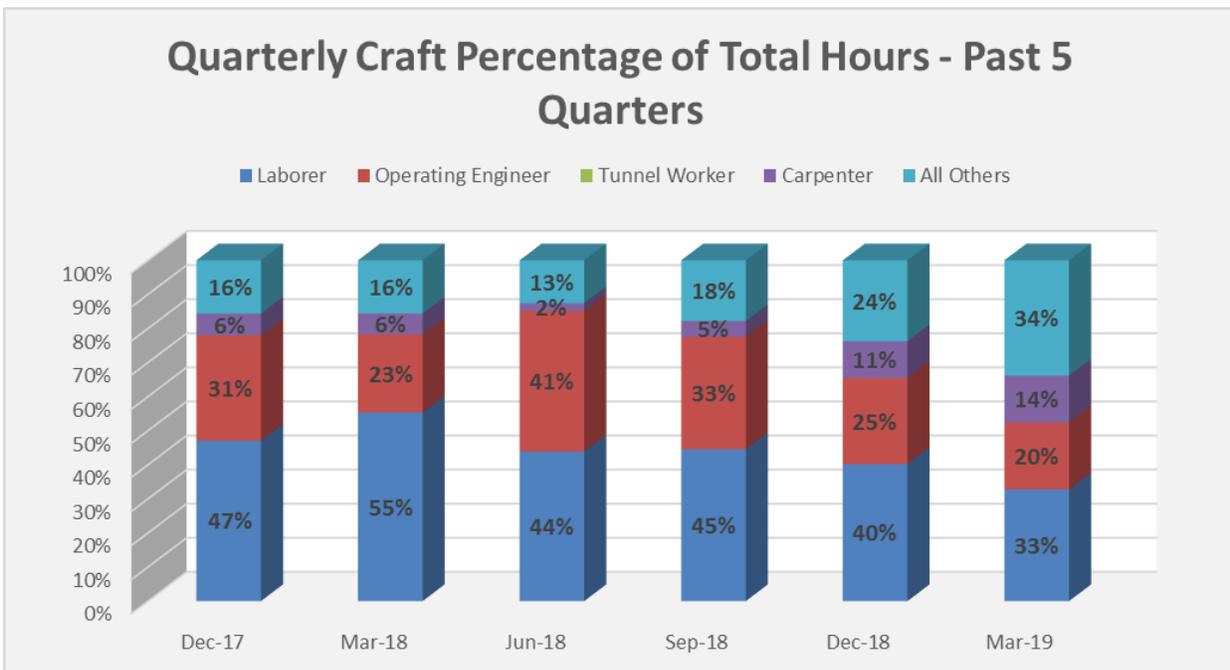
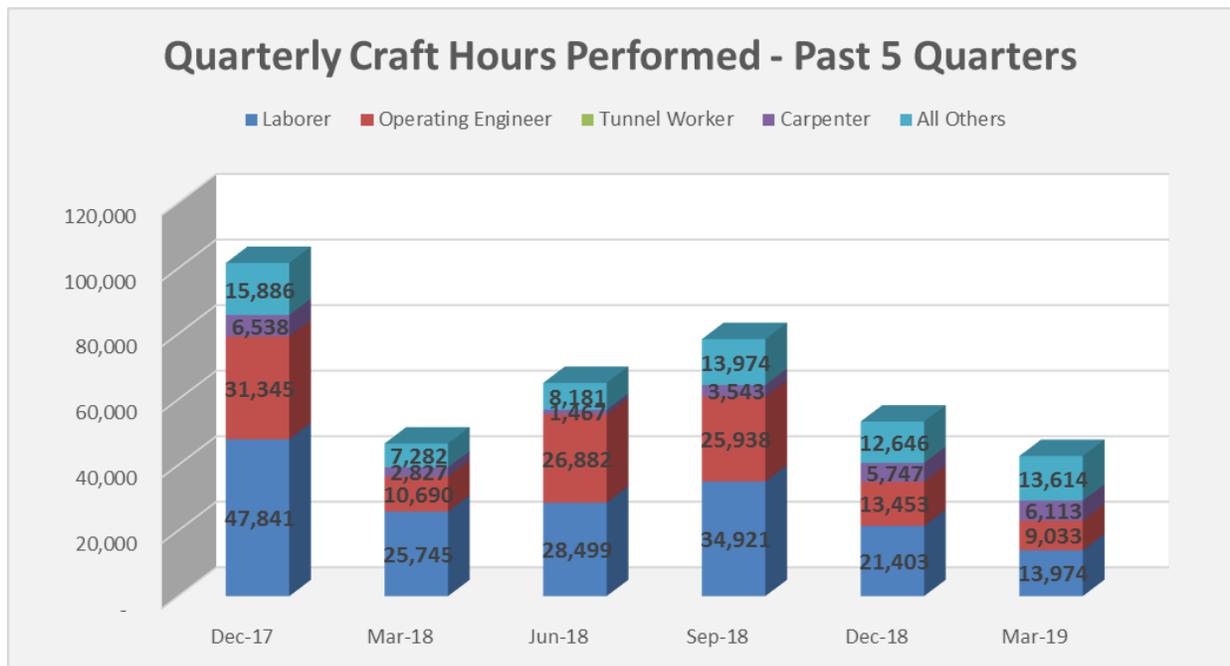
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The table below reflects the values of hours and wages for each trade cumulatively since the inception of the WSIP and the most recent reporting period.

Craft	Total Cumulative Hours	Total Cumulative Wages	Quarter Ending 3-31-2019 Hours	Quarter Ending 3-31-2019 Wages
Laborer	2,915,368	\$ 90,383,768	13,974	\$ 500,905
Operating Engineer	1,834,086	\$ 77,081,847	9,033	\$ 466,915
Carpenter	738,349	\$ 31,302,959	6,113	\$ 307,993
Tunnel Worker	612,964	\$ 26,175,557	-	\$ -
Electrician	470,019	\$ 24,852,478	5,514	\$ 335,522
Plumber	421,270	\$ 19,767,501	2,189	\$ 144,127
Iron Worker	268,435	\$ 9,264,294	1,193	\$ 48,865
Pile Driver	181,756	\$ 9,710,458	648	\$ 39,543
Painter	145,640	\$ 5,689,348	355	\$ 14,860
Cement Mason	127,925	\$ 4,502,346	96	\$ 2,692
Boilermaker	119,116	\$ 6,273,157	-	\$ -
Building/Construction Inspector	87,170	\$ 4,932,721	1,349	\$ 59,103
Roofer	48,356	\$ 1,637,520	241	\$ 8,539
Field Surveyor	21,701	\$ 1,243,279	114	\$ 4,638
Sheet Metal Worker	18,669	\$ 891,332	490	\$ 30,448
Drywall Installer/Lather	10,796	\$ 458,160	-	\$ -
Bricklayer	8,620	\$ 329,139	-	\$ -
Plasterer	7,556	\$ 270,024	915	\$ 34,749
Electrical Utility Lineman	6,909	\$ 425,367	112	\$ 7,659
Glazier	4,347	\$ 214,828	-	\$ -
Metal Roofing Systems Installer	2,586	\$ 92,217	-	\$ -
Asbestos Worker, Heat and Frost Insulator	904	\$ 54,695	200	\$ 13,622
Brick Tender	895	\$ 30,418	-	\$ -
Carpet Layer	354	\$ 16,311	-	\$ -
Tile Setter	351	\$ 12,929	-	\$ -
Tile Finisher	277	\$ 5,836	-	\$ -
Terrazzo Worker	199	\$ 8,163	-	\$ -
Driver	182	\$ 19,110	-	\$ -
Marble Finisher	40	\$ 1,342	-	\$ -
Terrazzo Finisher	4	\$ 160	-	\$ -
	<b>8,054,839</b>	<b>315,647,263</b>	<b>42,535</b>	<b>2,020,180</b>
Teamster	135,662	\$ 6,400,583	199	\$ 10,509
Driver (On/Off-Hauling To/From Construction Site)	97,691	\$ 7,270,512	-	\$ -
Operating Engineer (Heavy And Highway Work) (Special)	95,289	\$ 4,512,513	-	\$ -
Tunnel/Underground (Operating Engineer-Heavy And Highway Work)	79,393	\$ 3,676,393	-	\$ -
Asbestos Removal Worker (Laborer)	17,057	\$ 435,487	-	\$ -
Tunnel/Underground (Operating Engineer-Heavy And Highway Work)	13,201	\$ 590,532	-	\$ -
Water Well Driller	12,313	\$ 608,914	-	\$ -
Tree Trimmer (High Voltage Line Clearance)	1,422	\$ 36,006	-	\$ -
Telecommunications Technician	1,160	\$ 37,245	-	\$ -
Landscape Maintenance Laborer	1,131	\$ 32,404	-	\$ -
Steel Erector And Fabricator (Operating Engineer - Heavy And Highway Work)	1,123	\$ 56,467	-	\$ -
Traffic Control/Lane Closure (Laborer)	888	\$ 31,991	-	\$ -
Dredger Operating Engineer	831	\$ 33,307	-	\$ -
Operating Engineer (Building Construction)	635	\$ 24,810	-	\$ -
Slurry Seal Worker	592	\$ 17,811	-	\$ -
Parking And Highway Improvement Painter (Painter)	247	\$ 10,082	-	\$ -
Ironworker (Db)	80	\$ 2,772	-	\$ -
Teamster (Special Single Shift Rate)	11	\$ 291	-	\$ -
<b>Total Non-Apprenticeable</b>	<b>458,723</b>	<b>\$ 23,778,120</b>	<b>199</b>	<b>\$ 10,509</b>
<b>Total Apprenticable</b>	<b>8,054,839</b>	<b>\$ 315,647,263</b>	<b>42,535</b>	<b>\$ 2,020,180</b>
<b>Total WSIP PLA</b>	<b>8,513,563</b>	<b>\$ 339,425,383</b>	<b>42,734</b>	<b>\$ 2,030,689</b>

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The charts below represent *Quarterly* participation of the largest four participating trade categories and all others combined on WSIP PLA-covered projects.

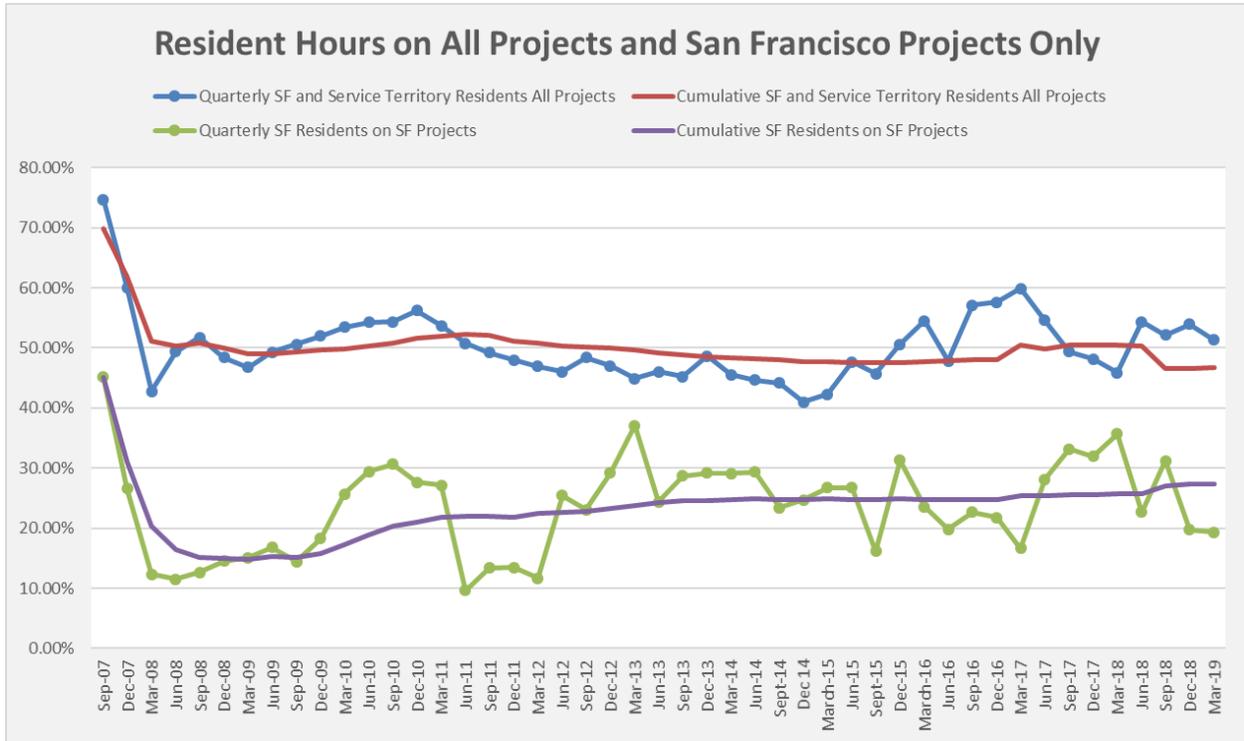


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**Worker Residence on the WSIP PLA**

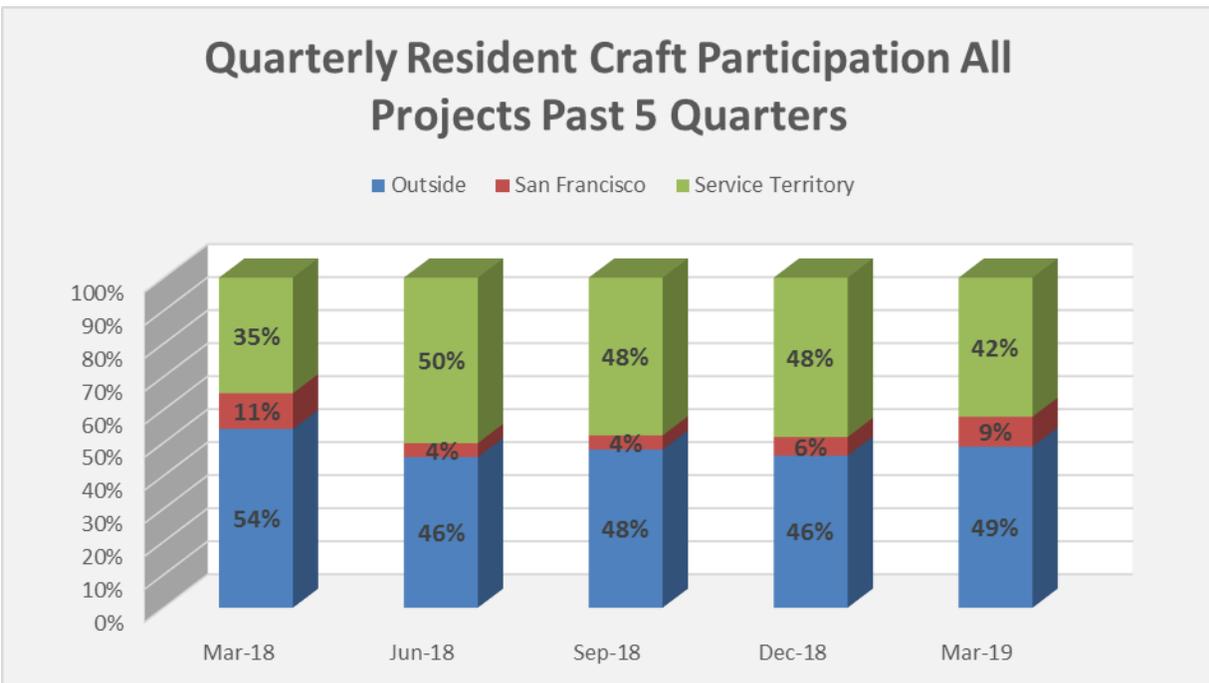
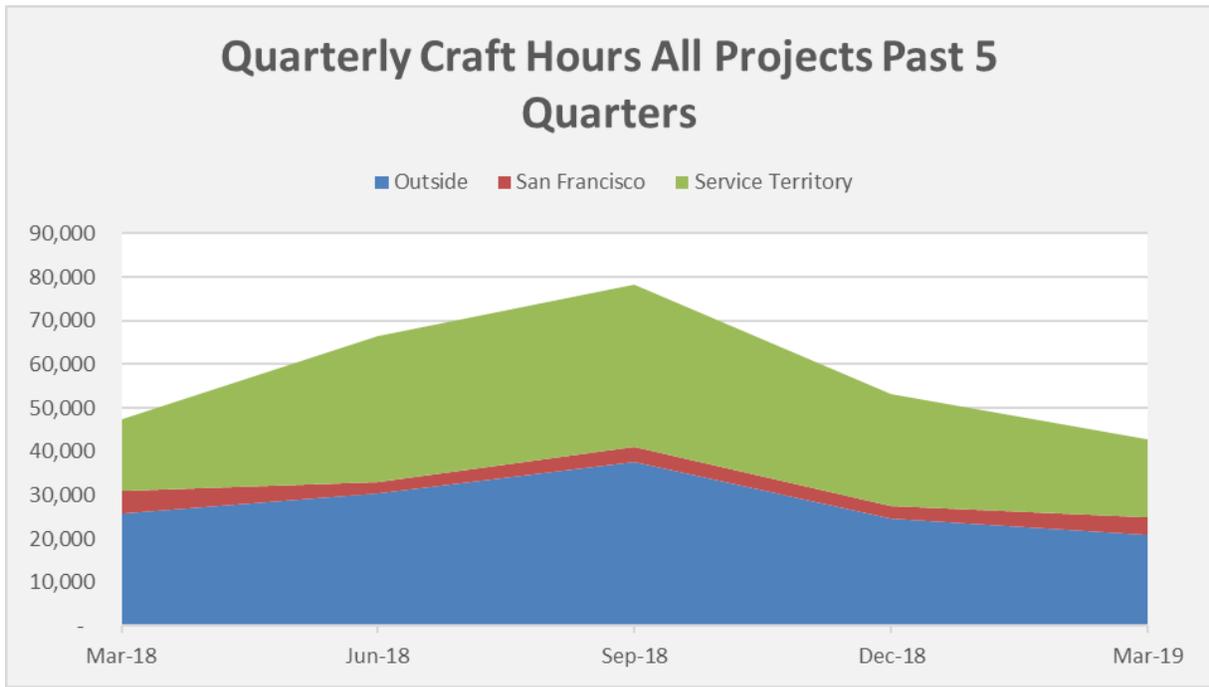
The Regional Service Territory, covering seven counties, is defined as zip codes outside San Francisco and within which the SFPUC delivers wholesale water, in addition to zip codes impacted by WSIP construction.

The following chart summarizes the employment percentages of residents of San Francisco and the Regional Service Territory on WSIP PLA-covered projects through March 31, 2019.



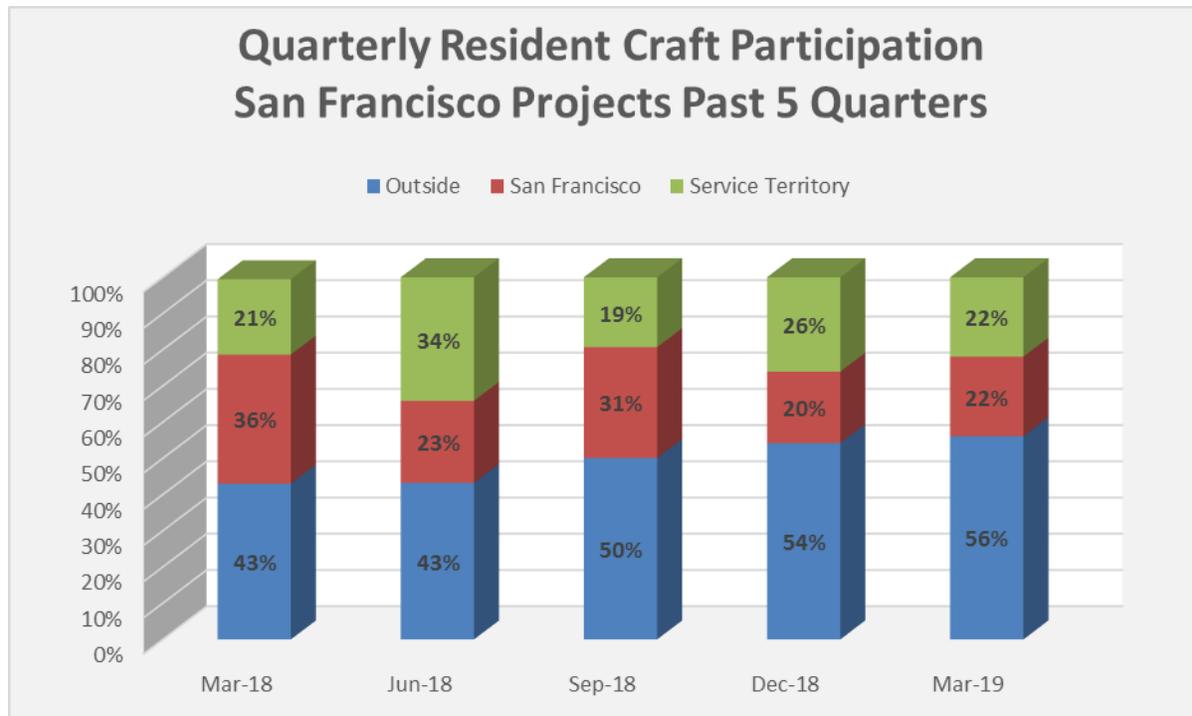
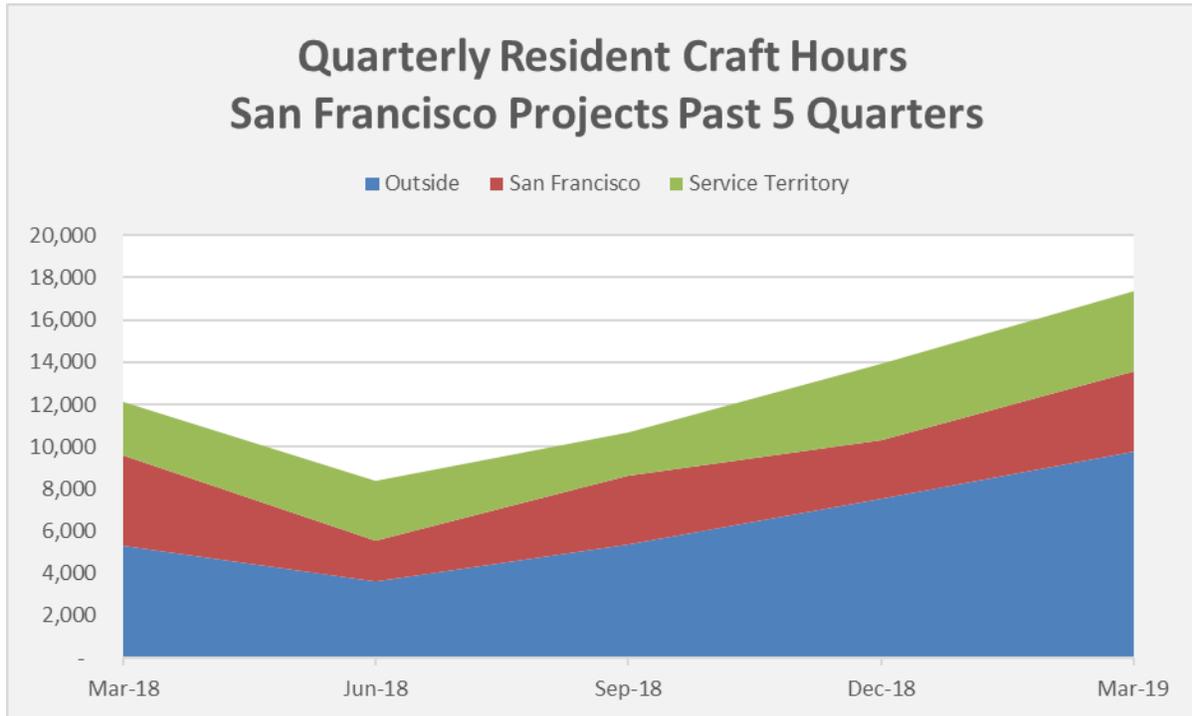
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**Residence on ALL WSIP PLA Projects** - Charted are 57 of the 57 total projects covered under the WSIP PLA within San Francisco and the Service Territory.



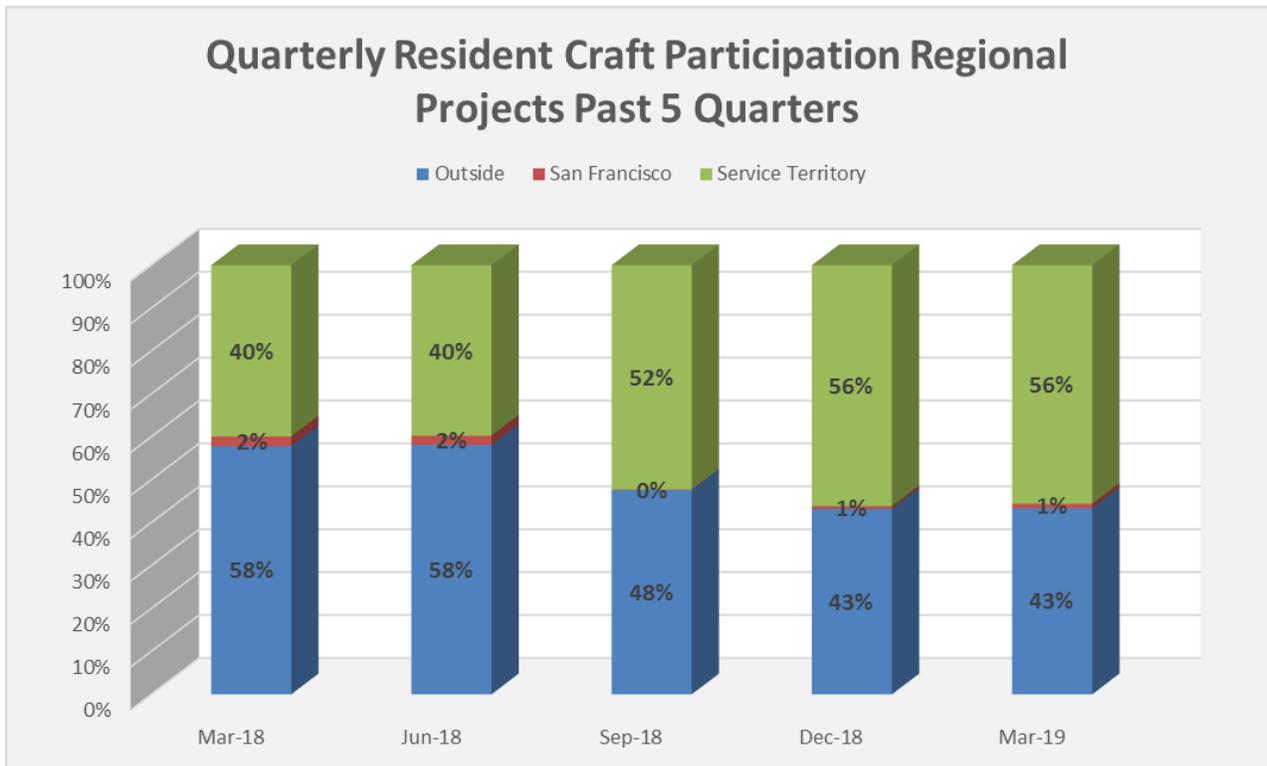
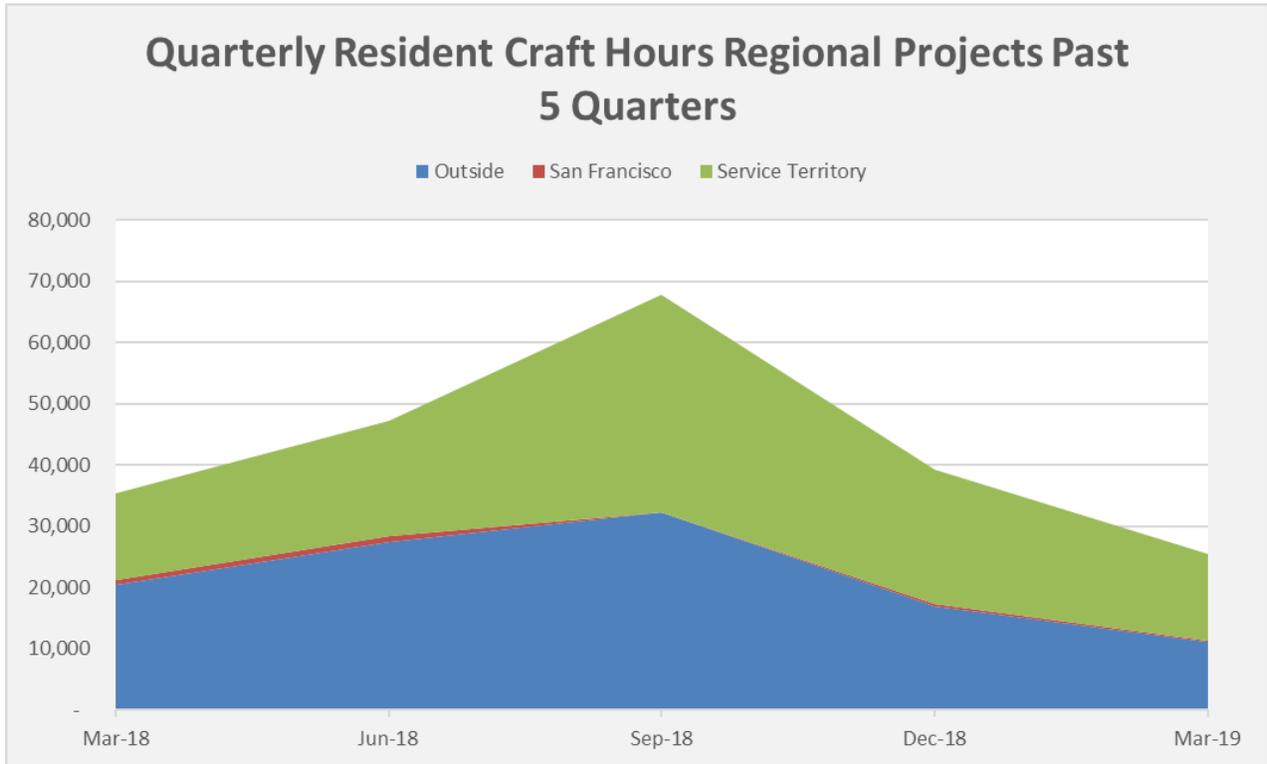
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**Residence on San Francisco-located WSIP PLA Projects** - Charted are the 16 projects covered by the WSIP PLA located within San Francisco only.



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**Residence on Regionally-located WSIP PLA Projects** - Charted are the 41 projects covered by the WSIP PLA located within the Regional Service Territory.



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**Residence by County**

Sorted by Total Craft Hours

<b>WSIP-PLA Employment by Top 20 Counties of Residence</b>					
Inception Through March 31, 2019					
County	Total Craft Hours	Wages	% Craft Hours	Worker Count	FTE
Alameda	1,521,666	\$ 56,946,879	17.9%	2,753	732
Contra Costa	1,207,934	\$ 47,716,989	14.2%	1,876	581
San Joaquin	832,077	\$ 31,487,695	9.8%	1,187	400
San Mateo	729,453	\$ 29,592,963	8.6%	1,182	351
<b>San Francisco</b>	<b>586,718</b>	<b>\$ 22,256,395</b>	<b>6.9%</b>	<b>1,202</b>	<b>282</b>
Santa Clara	440,908	\$ 17,622,307	5.2%	1,187	212
Solano	426,400	\$ 17,187,139	5.0%	815	205
Stanislaus	383,461	\$ 14,217,262	4.5%	590	184
Sacramento	344,215	\$ 14,062,216	4.0%	577	165
Butte	212,327	\$ 8,402,934	2.5%	128	102
Sonoma	183,475	\$ 7,415,868	2.2%	326	88
Placer	111,073	\$ 5,029,091	1.3%	129	53
Tuolumne	101,912	\$ 3,958,686	1.2%	99	49
Calaveras	101,552	\$ 4,515,018	1.2%	78	49
El Dorado	87,724	\$ 3,731,885	1.0%	84	42
Los Angeles	71,488	\$ 3,227,785	0.8%	144	34
Yolo	71,150	\$ 2,970,853	0.8%	90	34
Shasta	69,177	\$ 3,211,560	0.8%	44	33
Riverside	65,996	\$ 3,122,393	0.8%	112	32
Clark	61,915	\$ 2,831,513	0.7%	72	30
<b>Top 20 Counties by Hours</b>	<b>7,610,619</b>	<b>\$ 299,507,432</b>	<b>89.4%</b>	<b>12,675</b>	<b>3,659</b>
All Other Counties	902,943	\$ 39,917,952	10.6%	1,437	434
<b>WSIP-PLA Total</b>	<b>8,513,563</b>	<b>\$ 339,425,383</b>	<b>100.0%</b>	<b>14,112</b>	<b>4,093</b>

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**San Francisco Residents by Zip Code**

Sorted by Total Craft Hours

<b>Employment by San Francisco Zip Code</b>					
Inception Through March 31, 2019					
San Francisco Zip Codes	Total Workers				
	Total Craft Hours	Wages	% Total Craft Hours	Worker Count	FTE
94112	113,208	\$ 3,947,000	19.3%	195	54
94124	98,642	\$ 3,862,908	16.8%	248	47
94116	82,813	\$ 3,842,242	14.1%	78	40
94110	78,141	\$ 2,709,004	13.3%	166	38
94134	40,115	\$ 1,219,421	6.8%	113	19
94122	30,499	\$ 1,384,245	5.2%	60	15
94103	23,739	\$ 723,489	4.0%	37	11
94121	19,505	\$ 777,512	3.3%	47	9
94118	14,929	\$ 734,235	2.5%	21	7
94127	13,409	\$ 551,813	2.3%	20	6
94117	10,693	\$ 290,985	1.8%	18	5
94132	10,510	\$ 428,235	1.8%	30	5
94107	8,904	\$ 336,095	1.5%	24	4
94102	8,508	\$ 376,250	1.5%	19	4
94131	6,509	\$ 198,398	1.1%	21	3
94109	4,806	\$ 151,279	0.8%	20	2
94133	4,106	\$ 164,992	0.7%	7	2
94114	4,094	\$ 174,029	0.7%	14	2
94130	3,095	\$ 64,996	0.5%	9	1
94108	2,918	\$ 64,629	0.5%	6	1
94115	1,962	\$ 64,396	0.3%	22	1
94142	1,740	\$ 68,149	0.3%	7	1
94111	915	\$ 21,546	0.2%	3	0
94123	561	\$ 28,323	0.1%	2	0
94104	523	\$ 13,179	0.1%	2	0
94129	447	\$ 14,182	0.1%	1	0
94188	366	\$ 9,790	0.1%	3	0
94105	318	\$ 9,326	0.1%	3	0
94140	288	\$ 11,589	0.0%	1	0
94119	255	\$ 7,976	0.0%	1	0
94147	162	\$ 4,785	0.0%	1	0
94125	21	\$ 768	0.0%	1	0
94158	16	\$ 362	0.0%	2	0
94164	6	\$ 264	0.0%	1	0
<b>Total</b>	<b>586,718</b>	<b>\$ 22,256,395</b>	<b>100.0%</b>	<b>1,202</b>	<b>282</b>
<b>WSIP-PLA Total</b>	<b>8,513,563</b>	<b>\$ 339,425,383</b>	<b>-</b>		<b>4,093</b>

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**Residence by Craft**

Sorted by Total Hours

Cumulative Employment of Residents By Craft Inception Through March 31, 2019							
Craft	Total Hours	San Francisco Hours	SFPUC Service Territory Hours	Outside Hours	% San Francisco Hours	% Service Territory Hours	% Outside Hours
Operating Engineer	1,834,086	64,013	651,915	1,118,158	3.5%	35.5%	61.0%
Carpenter	738,349	85,970	302,022	350,358	11.6%	40.9%	47.5%
Tunnel Worker	612,964	11,171	208,750	393,043	1.8%	34.1%	64.1%
Electrician	470,019	23,507	251,853	194,659	5.0%	53.6%	41.4%
Plumber	421,270	87,648	139,425	194,196	20.8%	33.1%	46.1%
Iron Worker	268,435	18,008	102,871	147,556	6.7%	38.3%	55.0%
Pile Driver	181,756	6,526	53,970	121,260	3.6%	29.7%	66.7%
Painter	145,640	9,511	16,846	119,283	6.5%	11.6%	81.9%
Cement Mason	127,925	9,858	54,960	63,108	7.7%	43.0%	49.3%
Boilermaker	119,116	48	22,939	96,129	0.0%	19.3%	80.7%
Building/Construction Inspector	87,170	3,947	11,927	71,296	4.5%	13.7%	81.8%
Roofer	48,356	4,339	25,138	18,879	9.0%	52.0%	39.0%
Field Surveyor	21,701	1,357	4,038	16,307	6.3%	18.6%	75.1%
Sheet Metal Worker	18,669	2,217	10,666	5,787	11.9%	57.1%	31.0%
Drywall Installer/Lather	10,796	4,138	1,796	4,863	38.3%	16.6%	45.0%
Bricklayer	8,620	82	4,060	4,478	1.0%	47.1%	52.0%
Plasterer	7,556	4,101	1,124	2,332	54.3%	14.9%	30.9%
Electrical Utility Lineman	6,909	-	186	6,723	0.0%	2.7%	97.3%
Glazier	4,347	1,028	1,395	1,925	23.6%	32.1%	44.3%
Metal Roofing Systems Installer	2,586	39	2,252	296	1.5%	87.1%	11.4%
Asbestos Worker, Heat and Frost Insulation	904	-	229	675	0.0%	25.3%	74.7%
Brick Tender	895	287	19	589	32.1%	2.1%	65.8%
Carpet Layer	354	111	89	154	31.4%	25.1%	43.5%
Tile Setter	351	-	344	7	0.0%	98.0%	2.0%
Tile Finisher	277	-	237	40	0.0%	85.6%	14.4%
Terrazzo Worker	199	-	-	199	0.0%	0.0%	100.0%
Driver	182	182	-	-	100.0%	0.0%	0.0%
Marble Finisher	40	-	40	-	0.0%	100.0%	0.0%
Terrazzo Finisher	4	-	4	-	0.0%	100.0%	0.0%
<b>Total Apprenticeable</b>	<b>5,139,472</b>	<b>338,083</b>	<b>1,869,092</b>	<b>2,932,297</b>	<b>6.6%</b>	<b>36.4%</b>	<b>57.1%</b>
<b>LABORER</b>	<b>2,915,368</b>	<b>222,040</b>	<b>1,262,600</b>	<b>1,430,728</b>	<b>7.6%</b>	<b>39.8%</b>	<b>58.5%</b>
<b>Non-Apprenticeable</b>							
Teamster	135,662	9,147	79,946	46,568	6.7%	58.9%	34.3%
Driver (On/Off-Hauling To/From Construction Site)	97,691	16,246	65,652	15,793	16.6%	67.2%	16.2%
Operating Engineer (Heavy And Highway Construction)	95,289	-	38,906	56,383	0.0%	40.8%	59.2%
Tunnel/Underground (Operating Engineer)	79,393	70	34,872	44,451	0.1%	43.9%	56.0%
Asbestos Removal Worker (Laborer)	17,057	951	2,161	13,945	5.6%	12.7%	81.8%
Tunnel/Underground (Operating Engineer)	13,201	-	3,832	9,369	0.0%	29.0%	71.0%
Water Well Driller	12,313	-	7,177	5,136	0.0%	58.3%	41.7%
Tree Trimmer (High Voltage Line Clearance)	1,422	32	1,191	199	2.3%	83.8%	14.0%
Telecommunications Technician	1,160	-	1,088	72	0.0%	93.8%	6.2%
Landscape Maintenance Laborer	1,131	16	614	501	1.4%	54.3%	44.3%
Steel Erector And Fabricator (Operator)	1,123	-	282	841	0.0%	25.1%	74.9%
Traffic Control/Lane Closure (Laborer)	888	-	691	198	0.0%	77.8%	22.2%
Dredger Operating Engineer	831	-	-	831	0.0%	0.0%	100.0%
Operating Engineer (Building Construction)	635	133	229	273	20.9%	36.1%	43.0%
Slurry Seal Worker	592	-	337	255	0.0%	56.9%	43.1%
Parking And Highway Improvement Personnel	247	-	165	82	0.0%	66.8%	33.2%
Ironworker (Db)	80	-	24	56	0.0%	30.0%	70.0%
Teamster (Special Single Shift Rate)	11	-	-	11	0.0%	0.0%	100.0%
<b>Total Non-Apprenticeable</b>	<b>458,723</b>	<b>26,595</b>	<b>237,167</b>	<b>194,962</b>	<b>5.8%</b>	<b>51.7%</b>	<b>42.5%</b>
<b>Total WSIP PLA</b>	<b>8,513,563</b>	<b>586,718</b>	<b>3,368,858</b>	<b>4,557,987</b>	<b>6.9%</b>	<b>39.6%</b>	<b>53.5%</b>

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**Residence by Project**

Sorted by Total Hours

Employment Summary - Cumulative Employment of Residents by Project							
Craft Employment Summary Through March 31, 2019							
Project	Total Hours	San Francisco Hours	Service Territory Hours	Outside Hours	% San Francisco Hours	% SFPUC Service Territory Hours	% Outside Hours
WD-2551 - Calaveras Dam Replacem	1,517,490	4,646	563,195	949,649	0.3%	37.1%	62.6%
WD-2596 - HTWTP Long-Term Improv	1,013,848	49,559	368,135	596,155	4.9%	36.3%	58.8%
WD-2581 - New Irvington Tunnel	730,536	4,132	319,860	406,545	0.6%	43.8%	55.7%
WD-2531 - Bay Division Pipelines Relia	583,318	15,154	257,574	310,590	2.6%	44.2%	53.2%
WD-2601 - Crystal Springs / San Andre	489,160	25,325	193,302	270,533	5.2%	39.5%	55.3%
WD-2582 - Sunol Valley Water Treatme	462,423	9,292	174,479	278,653	2.0%	37.7%	60.3%
WD-2542 - Bay Division Pipeline No. 5	288,044	5,836	129,660	152,548	2.0%	45.0%	53.0%
CS-936 - AMI	227,027	78,220	83,691	65,115	34.5%	36.9%	28.7%
WD-2541 - Bay Division Pipeline No. 5	208,058	13,608	85,977	108,472	6.5%	41.3%	52.1%
WD-2539 - University Mound Reservoir	187,016	49,450	51,060	86,507	26.4%	27.3%	46.3%
WD-2729 - Fish Passage Facilities - Al	163,642	1,159	70,178	92,306	0.7%	42.9%	56.4%
WD-2668 - Regional Groundwater Stora	157,173	26,202	79,399	51,573	16.7%	50.5%	32.8%
WD-2627R - Sutro Reservoir Rehabilitat	154,545	49,147	39,763	65,635	31.8%	25.7%	42.5%
HH-935C - San Joaquin Pipeline - East	143,988	83	80,508	63,397	0.1%	55.9%	44.0%
DB-116 - Tesla Treatment Facility	141,910	3,122	93,841	44,948	2.2%	66.1%	31.7%
WD-2629 - Seismic Upgrade of Bay Div	134,349	1,815	52,403	80,131	1.4%	39.0%	59.6%
WD-2552 - Alameda Siphon No. 4 Proj	129,485	1,450	54,019	74,017	1.1%	41.7%	57.2%
WD-2555 - Crystal Springs Pipeline No	127,763	31,147	36,395	60,221	24.4%	28.5%	47.1%
WD-2498 - New Crystal Springs Bypass	117,821	9,557	64,371	43,894	8.1%	54.6%	37.3%
WD-2652 - BHR - San Antonio Creek	110,655	3,693	45,574	61,388	3.3%	41.2%	55.5%
WD-2548 - Lake Merced Pump Station	101,050	28,541	25,790	46,720	28.2%	25.5%	46.2%
HH-935B - San Joaquin Pipeline - West	100,492	111	41,614	58,767	0.1%	41.4%	58.5%
WD-2591 - Lower Crystal Springs Dam	98,562	5,463	52,743	40,356	5.5%	53.5%	40.9%
HH-935A - San Joaquin Pipeline - Cross	84,483	223	45,318	38,942	0.3%	53.6%	46.1%
WD-2513 - San Andreas Pipeline No.3	83,503	6,978	28,219	48,306	8.4%	33.8%	57.8%
WD-2575 - San Antonio Backup Pipelin	75,263	8,780	31,767	34,716	11.7%	42.2%	46.1%
WD-2504 - Stanford Heights Reservoir S	74,294	14,461	20,361	39,472	19.5%	27.4%	53.1%
WD-2501 - Alemany Pump Station	74,085	8,629	29,073	36,382	11.6%	39.2%	49.1%
WD-2727 - Peninsula Pipeline Seismic	69,772	13,891	23,679	32,203	19.9%	33.9%	46.2%
WD-2543 - North University Mound Sys	53,265	13,940	14,613	24,713	26.2%	27.4%	46.4%
WD-2621R - SF Groundwater Supply W	52,605	14,641	8,965	29,000	27.8%	17.0%	55.1%
WD-2573 - Pulgas Balancing Reservoir	50,367	6,669	25,461	18,237	13.2%	50.6%	36.2%
WD-2568 - BDPL Nos. 3&4 Crossover P	47,910	4,201	13,222	30,486	8.8%	27.6%	63.6%
WD-2641R - Habitat Reserve Program	44,018	8,771	10,167	25,081	19.9%	23.1%	57.0%
WD-2564 - HTWTP - Short Term Improv	43,049	8,445	15,208	19,397	19.6%	35.3%	45.1%
WD-2776 - SF Westside Recycled Wat	42,470	11,634	11,063	19,772	27.4%	26.0%	46.6%
WD-2798 - SF Westside Recycled Wat	38,039	11,846	12,495	13,699	31.1%	32.8%	36.0%
WD-2654R - Peninsula Vegetation Rem	30,464	4,839	9,727	15,897	15.9%	31.9%	52.2%
WD-2469 - Forest Knolls Pump Station	26,553	6,156	5,766	14,631	23.2%	21.7%	55.1%
WD-2666 - BHR - Sheep Camp Creek	23,492	46	6,377	17,069	0.2%	27.1%	72.7%
WD-2623 - Harding Park Recycled Wat	22,727	4,776	12,625	5,327	21.0%	55.6%	23.4%
WD-2651R - Peninsula 2011 Watershed	22,569	557	10,940	11,072	2.5%	48.5%	49.1%
WD-2529 - Noe Valley Transmission Ma	22,511	6,853	7,279	8,379	30.4%	32.3%	37.2%
WD-2665 - Bav Division Pipeline No. 5,	21,967	227	5,528	16,213	1.0%	25.2%	73.8%
WD-2556 - Baden and San Pedro Valve	19,939	2,720	15,270	1,949	13.6%	76.6%	9.8%
WD-2622 - SF Groundwater Supply Pip	17,782	3,487	2,138	12,157	19.6%	12.0%	68.4%
WD-2809 - SF Groundwater Supply Pha	15,314	2,490	1,890	10,935	16.3%	12.3%	71.4%
WD-2566 - San Antonio Pump Station	14,916	101	11,948	2,868	0.7%	80.1%	19.2%
HH-914R - Roselle Crossover Improvem	12,859	-	8,861	3,999	0.0%	68.9%	31.1%
HH-953 - Tesla Portal Protection	11,512	3,338	6,185	1,990	29.0%	53.7%	17.3%
WD-2511 - Standby Power Facilities	11,275	281	6,500	4,494	2.5%	57.6%	39.9%
WD-2640 - Bioregional Habitat Restora	10,621	667	4,028	5,926	6.3%	37.9%	55.8%
WD-2600 - Regional Groundwater Stora	6,088	-	296	5,792	0.0%	4.9%	95.1%
WD-2589 - SCADA System Phase II	1,498	368	363	767	24.6%	24.2%	51.2%
<b>Total WSIP PLA</b>	<b>8,513,563</b>	<b>586,718</b>	<b>3,368,858</b>	<b>4,557,987</b>	<b>6.9%</b>	<b>39.6%</b>	<b>53.5%</b>

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**Apprentice Utilization**

The WSIP PLA supports the apprentice ratios provided by the State of California’s, Division of Apprenticeship Standards, generally one apprentice hour to every five journey-level hours.

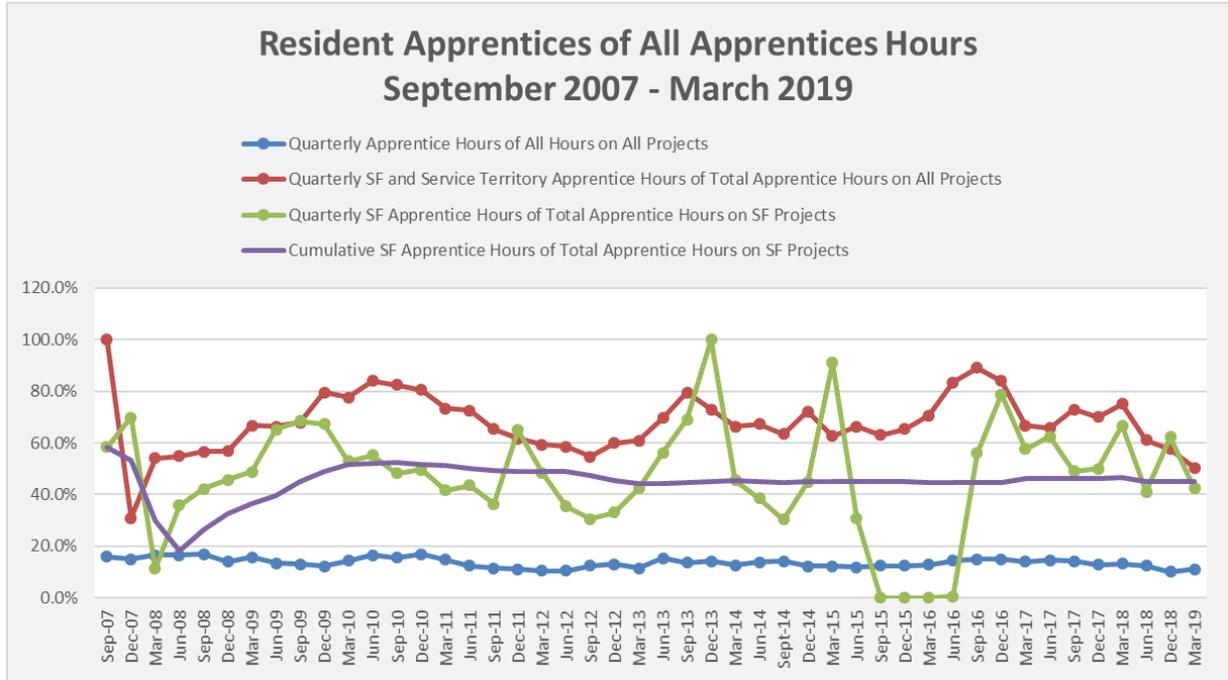
Through the end of the current quarter, 13.2% of craft hours in apprenticeable trades have been worked by apprentices. 16% of apprentice hours were worked by San Francisco residents and 54% were worked by residents of the Regional Service Territory, or 70% combined.

Sorted by Total Craft Hours

Craft	Total Hours	Total Apprentice Hours	Apprentice Hours			Apprentice Utilization			Resident Apprentice %		
			San Francisco Hours	SFPUC ST Hours	Outside Hours	Apprentice % of Total Craft Hours	San Francisco Apprentice % of Total Craft Hours	Service Territory Apprentice % of Total Craft Hours	% of Craft Apprentice Hours Performed by San Francisco Residents	% of Craft Apprentice Hours Performed by Service Territory Residents	% of Craft Apprentice Hours Performed by Outside Residents
A - Operating Engineer	1,834,086	208,446	25,292	85,748	97,406	11.4%	1.4%	4.7%	12.1%	41.1%	46.7%
A - Carpenter	738,349	117,311	30,851	55,986	30,475	15.9%	4.2%	7.6%	26.3%	47.7%	26.0%
A - Tunnel Worker	612,964	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Electrician	470,019	88,527	9,652	62,781	16,094	18.8%	2.1%	13.4%	10.9%	70.9%	18.2%
A - Plumber	421,270	115,614	33,812	55,994	25,808	27.4%	8.0%	13.3%	29.2%	48.4%	22.3%
A - Iron Worker	268,435	59,690	10,819	26,563	22,308	22.2%	4.0%	9.9%	18.1%	44.5%	37.4%
A - Pile Driver	181,756	18,563	4,451	9,825	4,287	10.2%	2.4%	5.4%	24.0%	52.9%	23.1%
A - Painter	145,640	25,069	1,693	6,247	17,129	17.2%	1.2%	4.3%	6.8%	24.9%	68.3%
A - Cement Mason	127,925	6,164	3,889	1,124	1,151	4.8%	3.0%	0.9%	63.1%	18.2%	18.7%
A - Boilemaker	119,116	2,354	40	1,238	1,076	2.0%	0.0%	1.0%	1.7%	52.6%	45.7%
A - Building/Construction Inspector	87,170	4,636	5	1,250	3,381	5.3%	0.0%	1.4%	0.1%	27.0%	72.9%
A - Roofer	48,356	11,975	1,946	5,284	4,745	24.8%	4.0%	10.9%	16.3%	44.1%	39.6%
A - Field Surveyor	21,701	934	23	173	738	4.3%	0.1%	0.8%	2.5%	18.5%	79.0%
A - Sheet Metal Worker	18,669	2,877	293	1,555	1,030	15.4%	1.6%	8.3%	10.2%	54.0%	35.8%
A - Drywall Installer/Lather	10,796	473	60	283	130	4.4%	0.6%	2.6%	12.7%	59.8%	27.5%
A - Bricklayer	8,620	2,682	82	573	2,027	31.1%	1.0%	6.6%	3.1%	21.3%	75.6%
A - Plasterer	7,556	347	136	-	211	4.6%	1.8%	0.0%	39.2%	0.0%	60.8%
A - Electrical Utility Lineman	6,909	79	-	79	-	1.1%	0.0%	1.1%	0.0%	100.0%	0.0%
A - Glazier	4,347	564	402	20	142	13.0%	9.2%	0.5%	71.3%	3.5%	25.2%
A - Metal Roofing Systems Installer	2,586	757	-	757	-	29.3%	0.0%	29.3%	0.0%	100.0%	0.0%
A - Asbestos Worker, Heat and Frost	904	26	-	-	26	2.9%	0.0%	0.0%	0.0%	0.0%	100.0%
A - Brick Tender	895	24	24	-	-	2.7%	2.7%	0.0%	0.0%	0.0%	0.0%
A - Carpet Layer	354	27	-	23	4	7.6%	0.0%	6.5%	0.0%	85.2%	14.8%
A - Tile Setter	351	20	-	20	-	5.7%	0.0%	5.7%	0.0%	0.0%	0.0%
A - Tile Finisher	277	40	-	-	40	14.4%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Terrazzo Worker	199	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Driver	182	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Marble Finisher	40	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Terrazzo Finisher	4	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sub-Total Apprenticeable	5,139,472	667,198	123,469	315,522	228,207	13.0%	2.4%	6.1%	18.5%	47.3%	34.2%
A - Laborer	2,915,368	398,966	44,554	258,877	95,230	13.7%	1.5%	8.9%	11.2%	64.9%	23.9%
Total Apprenticeable	8,054,839	1,066,164	168,023	574,399	323,437	13.2%	2.1%	7.1%	15.8%	53.9%	30.3%
Total Non-Apprenticeable	458,723										
Total WSIP - Covered by PLA	8,513,563										

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For the three months ending March 31, 2019, 43% of apprentice hours were worked by San Francisco resident apprentices on San Francisco-located WSIP PLA projects (green line). As the WISP program comes to a close, there are fewer opportunities for apprentices to perform work on projects resulting in the decrease of apprentice participation.



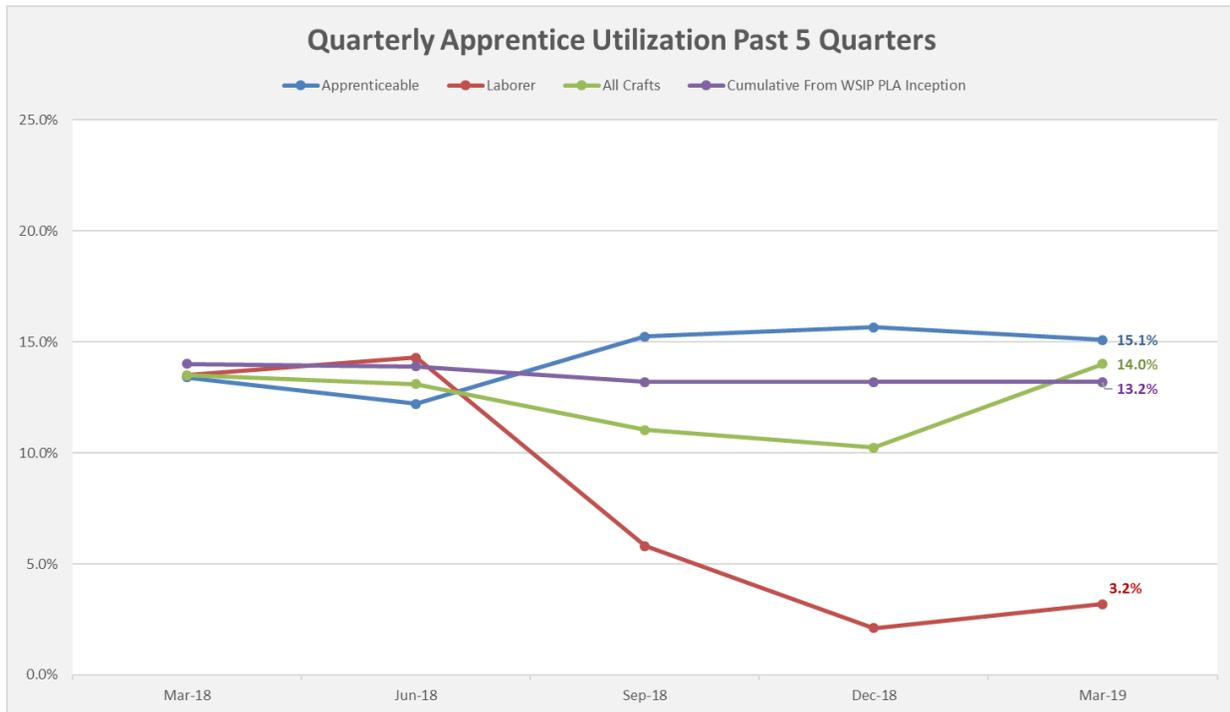
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The table below lists the WSIP PLA-covered Projects *sorted by Percentage of Apprentice Utilization* from highest to lowest. The total Apprentice Utilization for the entire WSIP is 13%. This is slightly lower than the 13.2% mentioned in the *Apprentice Utilization by Craft* chart (page 20) because the chart below reflects the Total Craft Hours which is slightly higher than the Total Apprenticeable and Laborer Hours used to calculate the percentage for crafts.

WSIP - Covered by PLA Apprentice Utilization By Project Inception Through March 31, 2019											
Project	Apprentice Utilization By Project										
	All Workers Hours				Apprentice Hours			Apprentice Utilization %			
	Total Craft Hours	Total Hours of Apprenticeable Trades	Total Non-Apprenticeable Hours	Total Laborer Hours	Total Apprenticeable and Laborer Hours	Apprenticeable Trades Hours	Apprentice Laborer Hours	Total Apprentice Hours	Apprenticeable Trades %	Apprentice Laborer %	Total Apprentice %
CS-936 - AMI	227,027	226,142	-	885	227,027	79,373	-	79,373	35.1%	0.0%	35.0%
WD-2729 - Fish Passage Facilities - Ala	163,642	110,136	6,045	47,461	157,597	25,697	4,495	30,192	23.3%	9.5%	19.2%
WD-2504 - Stanford Heights Reservoir S	74,294	40,444	-	33,851	74,294	9,134	757	9,891	22.6%	2.2%	13.3%
WD-2539 - University Mound Reservoir S	187,016	106,316	1,199	79,502	185,818	23,851	6,500	30,350	22.4%	8.2%	16.3%
WD-2573 - Pulgas Balancing Reservoir S	50,367	35,362	310	14,695	50,056	7,144	673	7,817	20.2%	4.6%	15.6%
WD-2627R - Sutro Reservoir Rehabilitat	154,545	77,338	8,900	68,308	145,645	15,391	5,248	20,639	19.9%	7.7%	14.2%
WD-2641R - Habitat Reserve Program	44,018	7,406	52	36,561	43,966	1,467	7,755	9,222	19.8%	21.2%	21.0%
WD-2668 - Regional Groundwater Stora	157,173	98,485	1,079	57,609	156,094	18,467	7,351	25,818	18.8%	12.8%	16.5%
WD-2798 - SF Westside Recycled Wate	38,039	6,652	-	31,387	38,039	1,170	6,085	7,255	17.6%	19.4%	19.1%
HH-914R - Roselle Crossover Improve	12,859	7,968	163	4,729	12,697	1,384	559	1,943	17.4%	11.8%	15.3%
DB-116 - Tesla Treatment Facility	141,910	97,738	1,863	42,310	140,047	16,580	10,411	26,991	17.0%	24.6%	19.3%
WD-2469 - Forest Knolls Pump Station	26,553	17,167	49	9,355	26,522	2,888	19	2,907	16.8%	0.2%	11.0%
WD-2582 - Sunol Valley Water Treatme	462,423	293,860	13,009	155,554	449,414	49,266	19,350	68,616	16.8%	12.4%	15.3%
WD-2596 - HTWTP Long-Term Improvem	1,013,848	675,958	39,423	298,468	974,425	108,428	35,995	144,423	16.0%	12.1%	14.8%
WD-2651R - Peninsula 2011 Watershed	22,569	4,777	3,239	14,554	19,331	763	2,372	3,135	16.0%	16.3%	16.2%
WD-2589 - SCADA System Phase II	1,498	728	-	771	1,498	115	-	115	15.8%	0.0%	7.7%
WD-2640 - Bioregional Habitat Restorat	10,621	4,487	813	5,321	9,809	701	914	1,615	15.6%	17.2%	16.5%
WD-2552 - Alameda Siphon No. 4 Projec	129,485	75,401	8,009	46,075	121,476	11,667	9,053	20,720	15.5%	19.6%	17.1%
WD-2555 - Crystal Springs Pipeline No.	127,763	49,074	9,731	69,487	118,561	7,559	5,394	12,953	15.4%	7.8%	10.9%
WD-2548 - Lake Merced Pump Station	101,050	72,875	1,672	26,504	99,378	10,670	137	10,807	14.6%	0.5%	10.9%
WD-2776 - SF Westside Recycled Wate	42,470	28,792	81	13,597	42,389	4,199	960	5,159	14.6%	7.1%	12.2%
WD-2727 - Peninsula Pipeline Seismic U	69,772	30,072	3,583	36,117	66,189	4,312	7,547	11,858	14.3%	20.9%	17.9%
WD-2575 - San Antonio Backup Pipeline	75,263	45,723	1,151	28,389	74,112	6,488	5,972	12,460	14.2%	21.0%	16.8%
WD-2513 - San Andreas Pipeline No.3 Ir	83,503	28,638	11,956	42,909	71,547	3,994	5,317	9,311	13.9%	12.4%	13.0%
WD-2621R - SF Groundwater Supply We	52,605	31,693	-	20,912	52,605	4,322	1,903	6,225	13.6%	9.1%	11.8%
WD-2501 - Alemany Pump Station	74,085	54,295	48	19,741	74,037	7,403	223	7,625	13.0%	1.1%	10.3%
WD-2498 - New Crystal Springs Bypass	117,821	93,680	12,599	11,543	105,223	12,361	5,252	17,612	13.2%	45.5%	16.7%
WD-2568 - BDPL Nos. 3&4 Crossover Fa	47,910	31,539	2,093	14,278	45,817	3,818	720	4,538	12.1%	5.0%	9.9%
WD-2591 - Lower Crystal Springs Dam I	98,562	41,053	1,162	56,348	97,400	4,833	3,853	8,685	11.8%	6.8%	8.9%
WD-2629 - Seismic Upgrade of Bay Divi	134,349	73,390	1,614	59,448	132,838	8,297	13,294	21,590	11.3%	22.4%	16.3%
WD-2601 - Crystal Springs / San Andrea	489,160	334,614	23,708	131,493	466,106	37,795	10,916	48,710	11.3%	8.3%	10.5%
WD-2541 - Bay Division Pipeline No. 5 -	208,058	88,905	12,802	106,410	195,315	10,026	10,170	20,196	11.3%	9.6%	10.3%
HH-953 - Tesla Portal Protection	11,512	4,377	133	7,002	11,379	487	2,768	3,255	11.1%	39.5%	28.6%
WD-2566 - San Antonio Pump Station U	14,916	8,241	137	6,539	14,780	859	939	1,798	10.4%	14.4%	12.2%
WD-2551 - Calaveras Dam Replacement	1,517,490	856,065	36,018	625,408	1,481,473	86,690	98,383	185,074	10.1%	15.7%	12.5%
HH-935A - San Joaquin Pipeline - Crosse	84,483	53,744	839	29,900	83,644	5,357	3,652	9,009	10.0%	12.2%	10.8%
HH-935C - San Joaquin Pipeline - Easter	143,988	89,174	1,840	52,974	142,148	8,862	8,401	17,263	9.9%	15.9%	12.1%
WD-2564 - HTWTP - Short Term Improve	43,049	22,612	80	20,358	42,969	2,089	-	2,089	9.2%	0.0%	4.9%
WD-2623 - Harding Park Recycled Wate	22,727	7,869	456	14,403	22,271	696	949	1,645	8.8%	6.6%	7.4%
WD-2556 - Baden and San Pedro Valve	19,939	11,046	344	8,550	19,595	951	1,788	2,738	8.6%	20.9%	14.0%
WD-2542 - Bay Division Pipeline No. 5 -	288,044	90,020	31,498	166,526	256,546	7,049	19,161	26,210	7.8%	11.5%	10.2%
WD-2652 - BHR - San Antonio Creek	110,655	19,428	2,526	88,700	108,128	1,492	19,170	20,661	7.7%	21.6%	19.1%
HH-935B - San Joaquin Pipeline - Weste	100,492	52,940	11,926	35,875	88,814	4,061	5,243	9,304	7.7%	14.6%	10.5%
WD-2511 - Standby Power Facilities	11,275	9,046	-	2,230	11,275	626	-	626	6.9%	0.0%	5.6%
WD-2581 - New Irving Tunnel	730,536	546,830	99,798	83,908	630,738	31,860	19,891	51,750	5.8%	23.7%	8.2%
WD-2622 - SF Groundwater Supply Pipe	17,782	4,623	1,682	11,477	16,100	266	1,827	2,092	5.7%	15.9%	13.0%
WD-2543 - North University Mound Syste	53,265	14,383	7,082	31,800	46,183	743	2,255	2,998	5.2%	7.1%	6.5%
WD-2531 - Bay Division Pipelines Reliab	583,318	412,690	91,164	79,535	492,226	14,153	18,238	32,391	3.4%	22.9%	6.6%
WD-2665 - Bav Division Pipeline No. 5, C	21,967	10,548	234	11,185	21,733	168	1,741	1,909	1.6%	15.6%	8.8%
WD-2666 - BHR - Sheep Camp Creek	23,492	16,708	336	6,784	23,492	228	1,615	1,843	1.4%	23.8%	7.8%
WD-2654R - Peninsula Vegetation Remcd	30,464	5,842	189	24,433	30,275	24	1,694	1,718	0.4%	6.9%	5.7%
WD-2529 - Noe Valley Transmission Ma	22,511	6,021	2,067	14,423	20,444	-	1,133	1,133	0.0%	7.9%	5.5%
WD-2600 - Regional Groundwater Stora	6,088	-	4,027	2,061	2,061	-	296	296	0.0%	14.3%	14.3%
WD-2809 - SF Groundwater Supply Phas	15,314	6,565	-	8,749	15,314	983	334	1,317	0.0%	3.8%	8.6%
<b>WSIP - Covered by PLA (53 Projects + A</b>	<b>8,513,563</b>	<b>5,139,472</b>	<b>458,723</b>	<b>2,917,387</b>	<b>8,056,858</b>	<b>667,198</b>	<b>398,661</b>	<b>1,065,860</b>	<b>13.0%</b>	<b>13.7%</b>	<b>13.2%</b>

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The following chart indicates quarterly Apprentice Utilization over the past five (5) quarters ending March 31, 2019.



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**Substance Abuse Prevention**

The WSIP PLA requires pre-employment alcohol and drug testing for all covered employees. The policy also allows testing where the contractor has reasonable cause to believe that the employee has used drugs or alcohol, and mandates testing where a contractor concludes that an employee was under the influence of drugs or alcohol at the time of an accident. The SFPUC has extended the WSIP PLA substance abuse prevention policy to all contractor employees working on a job site.

**14,828** pre-employment tests have been administered as of March 31, 2019 to people who were cleared to work. 200 people did not pass pre-employment screens and consequently were prevented from working until the results could be confirmed through lab tests. Strict regulations and high compliance by the contractors have led to a mere **1.32%** of failed screenings. These numbers have a direct correlation with the outstanding safety record of the entire WSIP Enterprise. The chart is on the next page.

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<b>WSIP - Covered by PLA (54 Projects + AMI) Substance Abuse Testing Summary</b>	
Tests Administered to Individuals Cleared to Work Through 3/31/2019	
Project	Number Cleared
WD-2596 - Harry Tracy Water Treatment Plant Long-Term Improvements	2,401
WD-2551 - Calaveras Dam Replacement Project	2,110
WD-2601 - Crystal Springs / San Andreas Transmission System Upgrade	1,282
WD-2582 - Sunol Valley Water Treatment Plant and Treated Water Reservoir	704
WD-2581 - New Irvington Tunnel	651
WD-2531 - Bay Division Pipelines Reliability Upgrade - Bay Tunnel	581
WD-2548 - Lake Merced Pump Station Essential Upgrades	531
WD-2541 - Bay Division Pipeline No. 5 - East Bay Reaches	509
WD-2501 - Alemany Pump Station	375
DB-116 - Tesla Treatment Facility	374
HH-935C - San Joaquin Pipeline System - Eastern Segment & Other Facilities	335
WD-2539 - University Mound Reservoir North Basin Seismic Upgrades	319
WD-2542 - Bay Division Pipeline No. 5 - Peninsula Reaches	305
WD-2668 - Regional Groundwater Storage and Recovery	265
CS-936 - Advanced Meter Infrastructure	229
WD-2552 - Alameda Siphon No. 4 Project	229
HH-935B - San Joaquin Pipeline System - Western Segment	226
WD-2629 - Seismic Upgrade of Bay Division Pipeline Nos. 3&4 at the Hayward Fault	226
WD-2627R - Sutro Reservoir Rehabilitation and Seismic Upgrade	217
WD-2498 - New Crystal Springs Bypass (Polhemus) Tunnel	212
WD-2504 - Stanford Heights Reservoir Seismic Retrofit and Improvement	199
HH-935A - San Joaquin Pipeline System - Crossovers	186
WD-2573 - Pulgas Balancing Reservoir Structural Rehabilitation and Roof Replacement	184
WD-2568 - BDPL Nos. 3&4 Crossover Facilities	180
WD-2513 - San Andreas Pipeline No.3 Installation Project	178
WD-2729 - Fish Passage Facilities Within The Alameda Creek Watershed	152
WD-2575 - San Antonio Backup Pipeline	132
WD-2591 - Lower Crystal Springs Dam Improvements	125
WD-2469 - Forest Knolls Pump Station and Storage Tank Upgrade	115
WD-2555 - Crystal Springs Pipeline No.2 Replacement Project	98
WD-2621R - San Francisco Groundwater Supply Well Stations	97
WD-2564 - Harry Tracy Water Treatment Plant - Short Term Improvements Phases 2 and 3	95
WD-2652 - Bioregional Habitat Restoration, San Antonio Creek	90
WD-2556 - Baden and San Pedro Valve Lot Improvements	86
WD-2776 - San Francisco Westside Recycled Water Treatment Facility at Oceanside Plant	78
HH-914R - Roselle Crossover Improvements	72
WD-2566 - San Antonio Pump Station Upgrades Project	70
WD-2623 - Harding Park Recycled Water Project	65
WD-2651R - Peninsula 2011 Watershed Compensation, Sherwood Point, Adobe Gulch Creek, Skyline Quarry, Sky	63
WD-2727 - Peninsula Pipeline Seismic Upgrade	61
HH-953 - Tesla Portal Protection	59
WD-2543 - North University Mound System Upgrade	55
WD-2529 - Noe Valley Transmission Main - Phase II	47
WD-2665 - Bay Division Pipeline Reliability Upgrade Project - Bay Division Pipeline No. 5, Cordilleras Microtunnel	43
WD-2654R - Peninsula Vegetation Removal	34
WD-2511 - Standby Power Facilities, Various Locations	30
WD-2666 - Bioregional Habitat Restoration, Sheep Camp Creek	30
WD-2589 - Supervisory Control and Data Acquisition SCADA System Phase II	28
WD-2641R - Habitat Reserve Program, Homestead Pond, San Andreas Reservoir Wetlands, Adobe Gulch Grasslar	23
WD-2600 - Regional Groundwater Storage and Recovery Project- Test Well Drilling	22
WD-2622 - San Francisco Groundwater Supply Pipeline	22
WD-2798 - San Francisco Westside Recycled Water Pipeline	20
WD-2809 - San Francisco Groundwater Supply Phase 2	8
WD-2640 - Bioregional Habitat Restoration	-
<b>Total Cleared</b>	<b>14,828</b>

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**Legislative History of the WSIP PLA**

On April 8, 2003, the San Francisco Board of Supervisors adopted Resolution 223-03 urging the SFPUC to develop plans for a Project Labor Agreement covering the capital improvement program to rehabilitate, repair, and upgrade the Hetch Hetchy Water System.

On May 20, 2003 the San Francisco Board of Supervisors adopted Resolution 350-03 urging the SFPUC to include social justice components in the Project Labor Agreement covering the Hetch Hetchy Water System upgrade.

On May 11, 2006 the San Francisco Board of Supervisors amended the San Francisco Administrative Code to establish a PUC Small firm Advisory Committee to provide for the certification of small construction contractors located outside San Francisco and within the SFPUC service territory for work on SFPUC construction projects, including those covered by the WSIP PLA.

On March 28, 2006 the SFPUC adopted Resolution No. 06-0049 to authorize SFPUC staff to commence negotiations with the various craft labor unions for a project labor agreement covering the Water System Improvement Program. Resolution No. 06-0049 concluded that the governmental interests of the SFPUC were furthered by a project labor agreement as follows:

“There are numerous advantages in moving forward on the negotiation of a PLA, which include but are not limited to the following: creates framework for labor harmony; militates against construction delays; assures steady supply of qualified labor; provides employment, career, and local business opportunities; and, other benefits ...”

On March 26, 2007, the SFPUC approved the negotiated agreement, called the Water System Improvement Program Project Labor Agreement (the WSIP PLA). The WSIP PLA requires construction contractors to utilize workers dispatched by signatory unions, and prohibits the unions and contractors from participating in strikes, lockouts, or other disruptions to the work. The WSIP PLA provides a procedure for adjudicating conflicting jurisdictional claims between the unions, provides for uniform hours of work, overtime, shifts and holidays, encourages the recruitment and training of low-income residents of the SFPUC service territory, and requires substance abuse testing for all covered workers. The first implementation of the WSIP PLA was on contract WD-2504, the Stanford Heights Reservoir Seismic Retrofit and Improvement project which the SFPUC awarded to S.J. Amoroso Construction Co. Inc. on Jun. 26, 2007 in the amount of \$17,899,960.

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**Governance**

The parties to the WSIP PLA have established a four person Joint Administrative Committee that reviews the implementation of the agreement and the progress of the covered projects, and resolves problems and grievances that arise in connection with the agreement. The SFPUC administers the agreement under the direction of the Joint Administrative Committee.

The Joint Administrative Committee has established the Jobs Training Opportunities Program to promote the employment and training of San Francisco and SFPUC Service Territory residents on WSIP projects.

**Pre-Job Conferences and Jurisdictional Disputes**

Prior to the commencement of construction, representatives of the participating contractors and subcontractors, the Unions, and the SFPUC, are mandated to attend a pre-job conference held at the offices of the SFPUC or the offices of the local Building and Construction Trades Council. At the pre-job conference each contractor and subcontractor describes the scope of their work and assigns the work on the basis of traditional craft jurisdictional lines. When conflicting claims for work are submitted to a contractor, the WSIP PLA's Jurisdictional Dispute Resolution procedure is invoked to prevent delay or disruption in the work due to jurisdictional disputes.

**Web-Based Labor Compliance Program**

All SFPUC construction projects including those covered by the WSIP PLA utilize the City's web-based labor compliance program (Elation Systems, Inc.) which allows contractors to submit their weekly certified payroll reports electronically over the internet. Elation Systems' electronic certified payrolls are used to produce the employment data included in this report.



HETCH HETCHY

WATER SYSTEM **IMPROVEMENT** PROGRAM

# **Water System Improvement Program Project Labor Agreement**

**Quarterly Report  
Quarter Ended June 30, 2019  
(Fourth Quarter FY 2018-2019)**

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San Francisco Public Utilities Commission  
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**Executive Summary**

Since it was adopted on March 16, 2007 the WSIP Project Labor Agreement (PLA) has promoted the public interest by ensuring the timely and economical completion of WSIP projects. The WSIP PLA has provided the structure to promote efficiency of construction of the WSIP, facilitate the partnership between the SFPUC, Unions, and Contractors, provide for peaceful settlement of labor disputes, and facilitate the employment of residents.

Progress on WSIP construction projects provides employment for construction workers employed by union-signatory and non-union construction contractors. Fifty-eight (58) WSIP contracts have been awarded subject to the WSIP PLA in the amount of \$2.216 billion in original contract award through June 30, 2019.

Construction Activity Highlights – Program-to-Date

**Contracting:**

- Fifty-eight (58) construction contracts with a value of \$2.216 billion in original contract award have been awarded subject to the WSIP PLA.

**Employment:**

- Since inception, 14,168 construction workers were employed for 8,540,063 hours and earned wages of \$340,647,292 on WSIP PLA-covered projects.
- 1,214 San Francisco residents worked 589,999 hours and earned \$22,390,762 on WSIP PLA-covered projects representing 7% of covered hours and 284 full-time equivalent worker years.
- The SFPUC Regional Service Territory consists of zip codes in seven counties outside of San Francisco, both in the vicinity of WSIP construction and within which the SFPUC delivers water. 5,829 residents of the Regional Service Territory earned wages of \$130,605,337 and worked 3,379,857 hours, representing 40% of covered hours and 1,625 full-time equivalent worker years.
- 14,914 pre-employment substance abuse tests have been administered to employees cleared to work on WSIP PLA-covered projects as of June 30, 2019. 200 people were prevented from working on WSIP PLA-covered projects due to receiving a non-negative result.

Region of Worker Residence	Inception Through June 30, 2019			
	Worker Count	Sum of Hours	Sum of Wages	FTE
All Workers	14,168	8,540,063	\$ 340,647,292	4,106
San Francisco	1,214	589,999	\$ 22,390,762	284
SFPUC Service Territory	5,829	3,379,857	\$ 130,605,337	1,625
Outside	7,125	4,570,207	\$ 187,651,194	2,197

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Construction Activity Highlights – Quarter Ending June 30, 2019

**Contracting:**

- There was one contract awarded during the reporting period; WD-2797 – San Francisco Westside Recycled Water Pump Station.

**Employment:**

- 248 construction workers were employed for 26,500 hours and earned wages of \$1,221,909 on WSIP PLA-covered projects.
- 48 San Francisco residents worked 3,281 hours and earned wages of \$134,366 on WSIP PLA-covered projects.
- The SFPUC Regional Service Territory consists of zip codes in seven counties outside of San Francisco, both in the vicinity of WSIP construction and within which the SFPUC delivers water. During this quarter, 85 residents of the Regional Service Territory worked 10,999 hours and earned wages of \$510,668 on WSIP PLA-covered projects.
- 41 pre-employment substance abuse screenings were administered under the provisions of the WSIP PLA Substance Abuse Policy and no individuals were prevented from working as the result of a positive test.

**Summary of Craft Worker Employment**

Region of Worker Residence	Three Months Ending June 30, 2019			
	Worker Count	Sum of Hours	Sum Of Wages	FTE*
All Workers	248	26,500	\$ 1,221,909	13
San Francisco	48	3,281	\$ 134,366	2
SFPUC Service Territory	85	10,999	\$ 510,668	5
Outside	115	12,221	\$ 576,875	6

\*FTE is the abbreviation for Full Time Equivalent. Since the workers on the projects may only work a few hours or days on the project, this is a way to determine the number of full time positions created. It is found by taking the Sum of Hours divided by 2,080, the conventional value for total hours worked per year based on a 40-hour work week.

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**Summary of WSIP PLA-Covered Contract Awards**

Sorted by Award Date

Construction Contracts Awarded Subject to the WSIP-PLA					
Inception through June 30, 2019					
Award Date	Contract No.	Prime Contractor	Project	Engineer's Estimate	Award \$
04/23/19	WD-2797*	JMB Construction	San Francisco Westside Recycled Water Pump Station a	\$20 Million	\$ 15,633,200
03/12/19	WD-2855	Sukut Construction, LLC,	Turner Dam Spillway and Pond F3 East Erosion Repair	\$2.9 Million	\$ 1,498,010
01/22/19	WD-2822R2	Anvil Builders Inc	Lower Crystal Springs Dam Stilling Basin Connecting Ch	\$5.8 Million	\$ 4,784,700
01/22/19	WD-2829R	Ranger Pipelines Inc.	San Andreas Pipeline No. 2 Replacement	\$29 to \$34 Million	\$ 32,087,200
05/09/17	WD-2776*	S.J. Amoroso Construction Co., Inc.	San Francisco Westside Recycled Water Treatment Facil	\$70 to 80 Million	\$ 87,597,000
01/24/17	WD-2809*	Western Water Constructors, Inc.	San Francisco Groundwater Supply Phase 2	\$11.2 Million	\$ 9,780,000
11/08/16	WD-2798*	JMB CONSTRUCTION INC	San Francisco Westside Recycled Water Pipeline	\$28.6 Million	\$ 21,729,720
01/12/16	WD-2729	Shimmick Construction	Fish Passage Facilities Within the Alameda Creek Water	\$30 Million	\$ 28,939,300
10/27/15	WD-2654R	NTK Construction	Peninsula Vegetation Removal	\$10.8 Million	\$ 11,062,544
01/13/15	WD-2621R*	Western Water Constructors, Inc.	San Francisco Groundwater Supply Well Stations	\$16 Million	\$ 14,955,100
01/13/15	WD-2668	Ranger Pipelines Inc	Regional Groundwater Storage and Recovery	\$50 Million	\$ 42,980,047
05/27/14	WD-2622*	Ranger Pipelines Inc	San Francisco Groundwater Supply Pipeline	\$13.6 Million	\$ 8,676,685
01/28/14	WD-2727	Ranger Pipelines Inc	Peninsula Pipeline Seismic Upgrade	\$22.5 Million	\$ 20,736,380
01/22/13	WD-2575	Ranger Pipelines Inc	San Antonio Backup Pipeline	\$34 to \$38 Million	\$ 31,372,335
06/26/12	WD-2627R*	S.J.Amoroso	Sutro Reservoir Rehabilitation	\$28 to \$36 Million	\$ 27,453,000
06/26/12	WD-2666	Shimmick Construction	Bioregional Habitat Restoration, Sheep Camp Creek	\$2.7 Million	\$ 3,912,500
06/12/12	WD-2629	Steve P. Rados	Bay Division Pipeline 3&4 at the Hayward Fault	\$49 to \$54 Million	\$ 31,320,000
04/23/12	WD-2651R	Shimmick Construction	Peninsula 2011 Watershed Compensation, Sherwood P	\$5.9 to \$6.7 Million	\$ 5,591,750
12/13/11	HH-953	Azul Works, Inc.	Tesla Portal Protection	\$2.4 Million	\$ 2,760,000
12/13/11	WD-2600*	Road Runner Drilling	Regional Groundwater Storage and Recovery-Test Well C	\$3.6 to \$4.2 Million	\$ 2,998,685
12/13/11	WD-2665	Steve P. Rados	Cordilleras Micro Tunnel	\$5.8 Million	\$ 5,251,100
11/08/11	WD-2652	Gordon N. Ball, Inc	Bioregional Habitat Restoration, San Antonio Creek	\$13 Million	\$ 12,947,400
09/13/11	WD-2641R	Yerba Buena Engineering	Habitat Reserve Program, Homestead Pond, San Andreas	\$6.4 Million	\$ 6,499,000
06/28/11	WD-2640	Yerba Buena Engineering	Bioregional Habitat Restoration - Goldfish Pond	\$2.4 Million	\$ 3,188,000
06/14/11	HH-935C	Contri Constmction,	San Joaquin Pipeline System - Eastern Segment	\$52 to \$57 Million	\$ 45,329,416
05/24/11	WD-2551	Dragados/Flatiron/Sukut JV	Calaveras Dam Replacement Project,	\$250 to \$300 Million	\$ 259,571,850
01/27/11	WD-2596	Kiewit Infrastructure West	Harry Tracy Water Treatment Plant Long-Term	\$220 to \$245 Million	\$ 174,197,000
01/11/11	WD-2555	Ranger Pipelines Inc	Crystal Springs Pipeline No.2	\$43 to \$48 Million	\$ 32,547,350
12/14/10	HH-935B	Mountain Cascade, Inc	San Joaquin Pipeline - Western Segment	\$70 Million	\$ 48,706,379
12/14/10	WD-2591	Kiewit Infrastructure West	Lower Crystal Springs Dam Improvements	\$18 to \$22 Million	\$ 17,360,400
09/14/10	WD-2601	Kiewit Infrastructure West	Crystal Springs / San Andreas Upgrade	\$100 to \$130 Million	\$ 99,763,000
09/14/10	WD-2623*	R & W Concrete	Harding Park Recycled Water Project	\$6.5 Million	\$ 5,251,100
06/08/10	WD-2581	Southland/Tutor Perini JV	New Irvington Tunnel	\$230 to \$260 Million	\$ 226,657,700
04/27/10	WD-2582	Shimmick Construction	Sunol Valley Water Treatment Plant	\$109 Million	\$ 83,102,160
04/13/10	HH-935A	West Bay Builders	San Joaquin Pipeline System - Crossovers	\$21.6 Million	\$ 11,723,817
12/18/09	WD-2531	Michels/JayDee/Coluccio, JV	Bay Tunnel	\$235 to \$260 Million	\$ 215,294,530
12/08/09	WD-2542	Mountain Cascade,	Bay Division Pipeline No. 5 - Peninsula Reaches	\$62 to \$69 Million	\$ 52,183,400
10/27/09	WD-2541	Ranger Pipelines Inc	Bay Division Pipeline Reliability Upgrade-East Bay	\$88 to \$98 Million	\$ 61,558,005
10/27/09	WD-2589	Ranger Pipelines Inc	Supervisory Control and Data Acquisition Phase II	\$10.6 Million	\$ 3,847,250
09/22/09	WD-2573	S.J.Amoroso	Pulgas Reservoir Structural Rehabilitation	\$14 to \$18 Million	\$ 12,857,000
09/08/09	WD-2566	Mountain Cascade	San Antonio Pump Station Upgrades Project	\$8.5 to \$9.5 Million	\$ 6,991,000
07/14/09	HH-914R	Mountain Cascade	Roselle Crossover Improvements	\$3.1 Million	\$ 2,837,000
06/23/09	WD-2513	Mountain Cascade	San Andreas Pipeline No.3 Installation Project	\$20 to \$25 Million	\$ 16,336,350
06/23/09	WD-2539*	S.J. Amoroso	University Mound Reservoir North Basin	\$47 to \$52 Million	\$ 29,597,000
05/26/09	WD-2552	Steve P. Rados	Alameda Siphon No. 4 Project	\$45.5 Million	\$ 31,933,695
04/28/09	WD-2568	Shimmick Construction	BDPL Nos. 3&4 Crossover Facilities	\$21.5 Million	\$ 12,695,000
04/17/09	WD-2548*	Western Water	Lake Merced Pump Station Essential Upgrades	\$52 to \$60 Million	\$ 31,584,000
03/10/09	CS-936*	VSI Meter Services	Advanced Meter Infrastructure	\$62.8 Million	\$ 62,822,980
02/24/09	WD-2556	JMB Construction	Baden and San Pedro Valve Lot Improvements	\$15 to \$18 Million	\$ 11,536,500
12/09/08	WD-2529*	KJ Woods	Noe Valley Transmission Main- Phase 2	\$6 to \$8 Million	\$ 5,724,000
10/14/08	WD-2498	Shank/Balfour-Beatty	New Crystal Springs Bypass Tunnel	\$55 to \$65 Million	\$ 55,674,000
09/23/08	DB-116	PCL Constructors	Tesla Treatment Facility	\$90 Million	\$ 81,420,562
09/09/08	WD-2543*	Shaw Pipeline Inc.	North University Mound System Upgrade	\$15 to \$18 Million	\$ 13,529,370
05/27/08	WD-2564	NTK Construction	Harry Tracy Water Treatment Plant-Short Term	\$15 to \$18 Million	\$ 13,824,000
12/11/07	WD-2469*	Cal State Constructors	Forest Knolls Pump Station and Storage Tank	\$5.5 to \$7 Million	\$ 6,547,000
12/07/07	WD-2501*	Monterey Mechanical	Aleman Pump Station	\$18 to \$22 Million	\$ 23,269,000
11/13/07	WD-2511	Power Engineering	Standby Power Facilities, Various Locations	\$5.7 Million	\$ 8,419,000
06/26/07	WD-2504*	S.J. Amoroso	Stanford Heights Reservoir Seismic Retrofit	\$18 to \$24 Million	\$ 17,899,960
<b>Total 58 Projects</b>					<b>\$ 2,216,344,430</b>

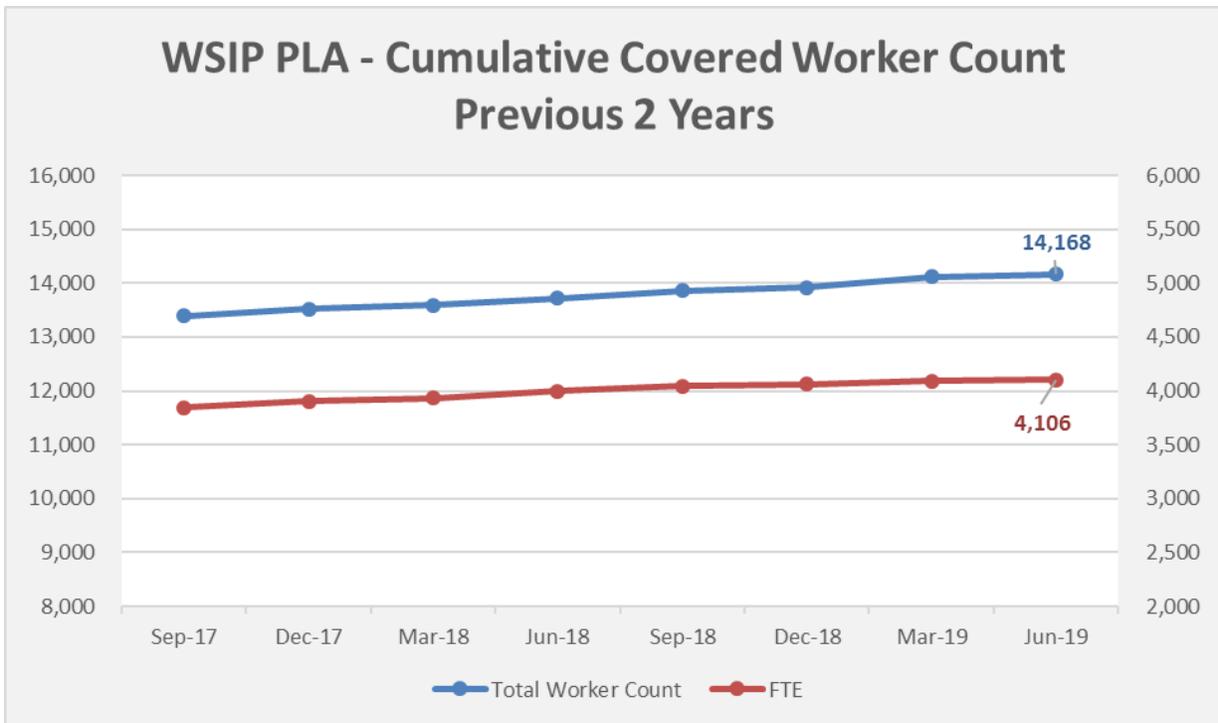
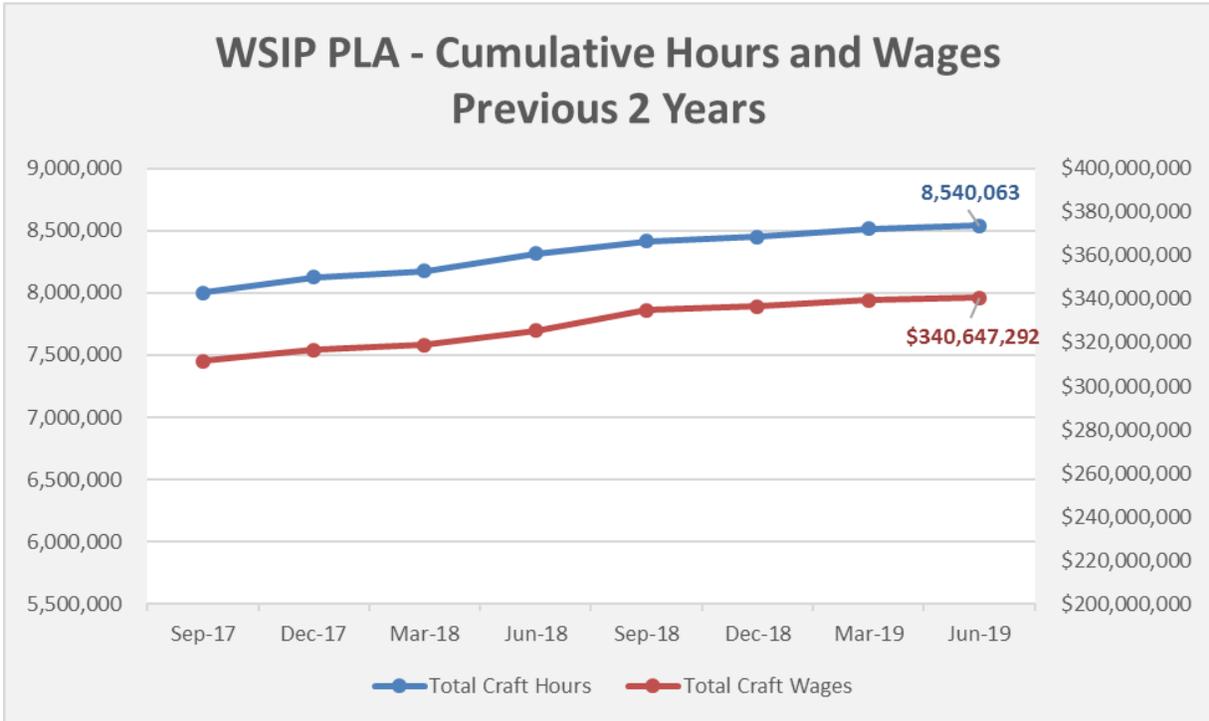
\* indicates projects located in San Francisco

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**Summary Charts**

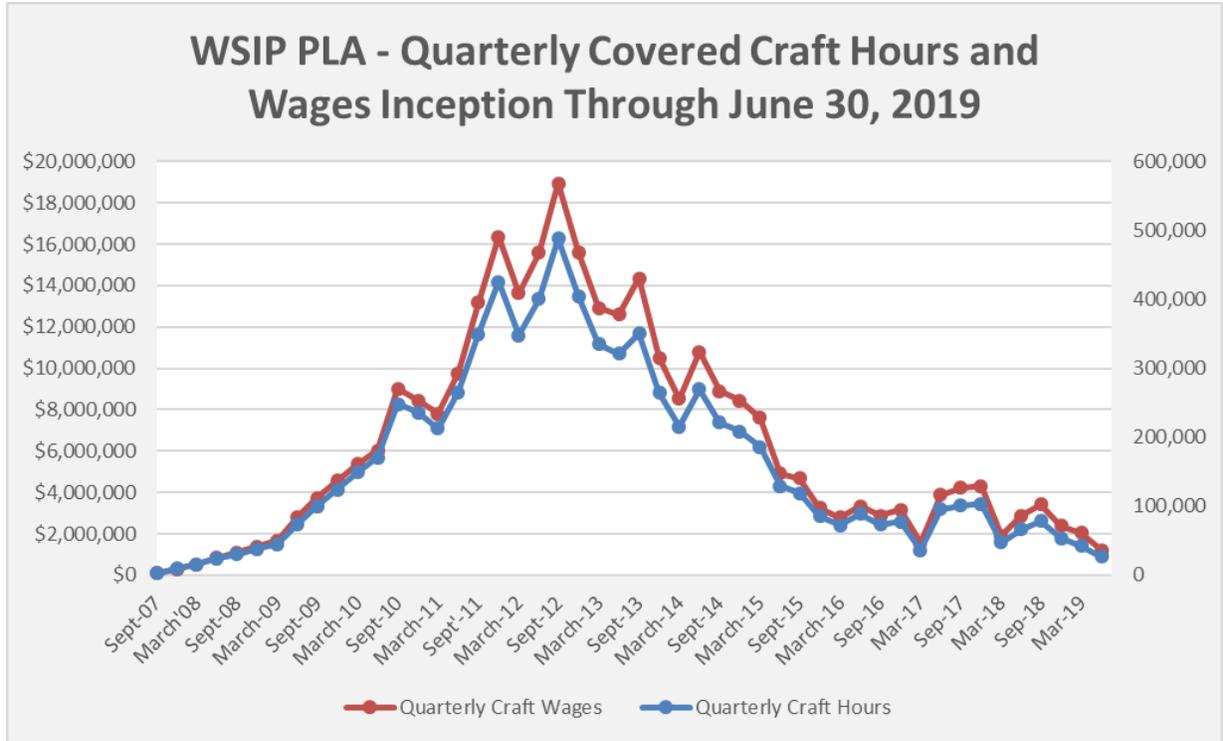
From the inception of the WSIP Project Labor Agreement in March 2007 through the current quarter ending June 30, 2019; 14,168 workers on WSIP PLA-covered projects have achieved a cumulative total of 8,540,063 craft hours and \$340,647,292 in craft wages.

The tables below describe the progressive accumulation of these totals over the past two years.

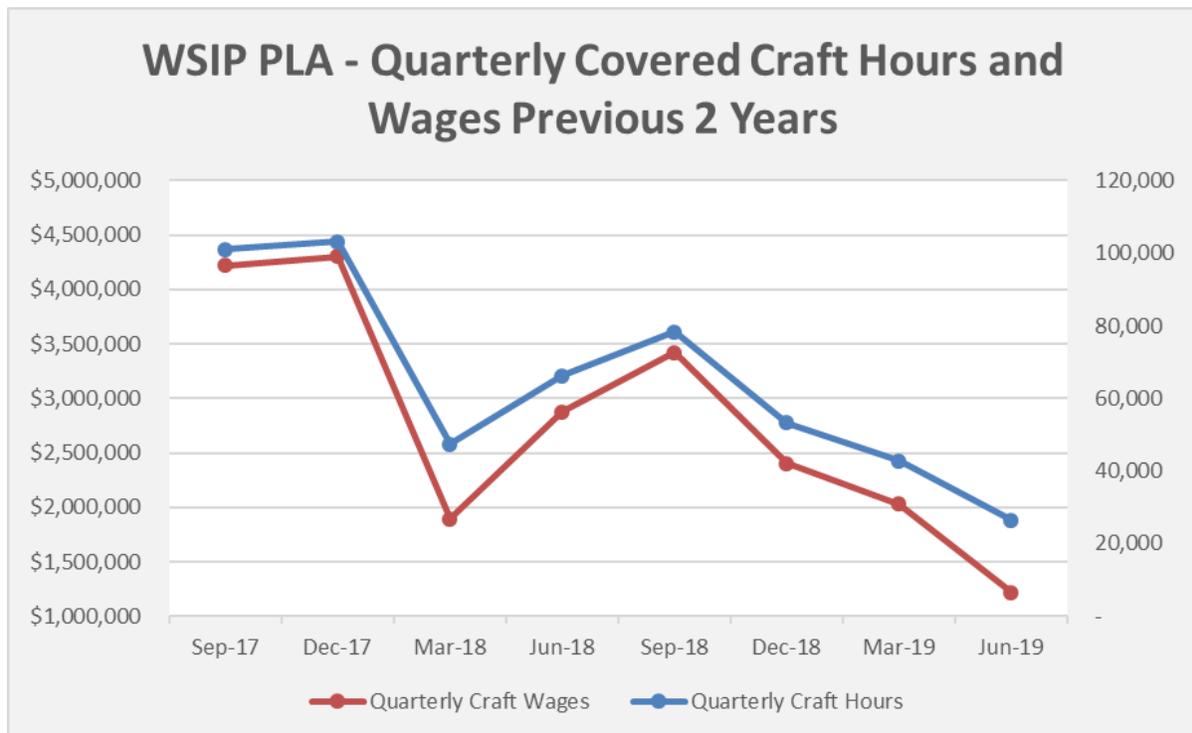


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The top chart on this page illustrates the values recorded *during* each quarter since inception. With the program surpassing 90% total completion, Craft Hours have and will likely continue to trend down until total completion.



The chart below represents a close-up of the one above; highlighting the past two years.



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**Craft Utilization on WSIP PLA-Covered Projects**

As of June 30, 2019, contractors reported craft hours in 54 craft worker classifications that the SFPUC summarizes into 30 craft areas.

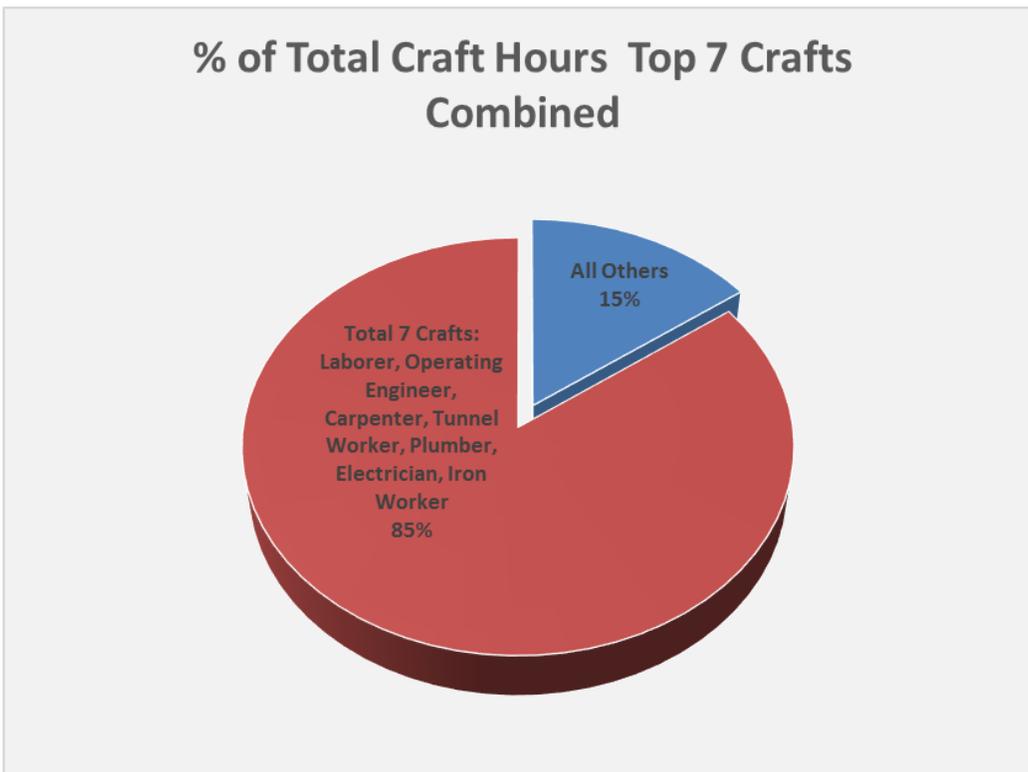
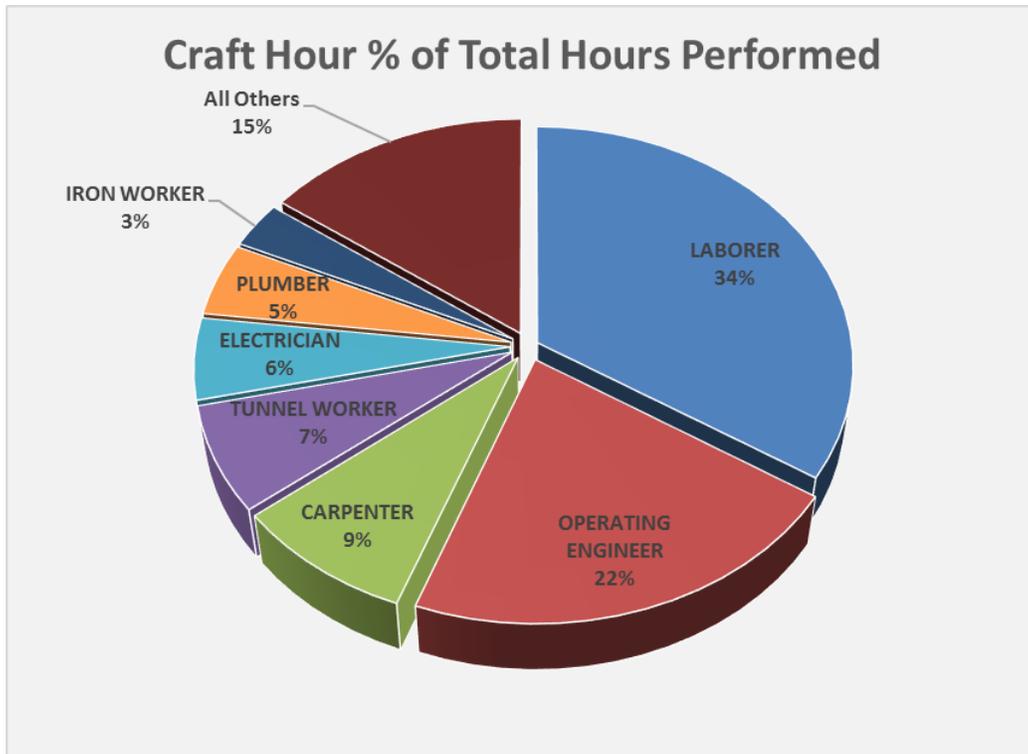
Illustrated here and in the following pages, Laborers, Operating Engineers, Carpenters, and Tunnel Workers, respectively, represent the majority of WSIP PLA craft workers to date. The Plumbers craft numbers include the Advanced Meter Infrastructure (AMI) project which was almost completely performed by Plumbers.

Sorted by Total Craft Hours

<b>Cumulative Employment by Craft</b>					
Inception Through June 30, 2019					
Craft	Total Hours	Total Wages	% Craft Hours of Total Hours	% Wages of Total Wages	FTE
Laborer	2,925,303	\$ 90,736,039	34.3%	26.6%	1,406
Operating Engineer	1,840,168	\$ 77,399,221	21.5%	22.7%	885
Carpenter	741,251	\$ 31,446,181	8.7%	9.2%	356
Tunnel Worker	612,964	\$ 26,175,557	7.2%	7.7%	295
Electrician	472,862	\$ 25,029,132	5.5%	7.3%	227
Plumber	422,919	\$ 19,867,080	5.0%	5.8%	203
Iron Worker	269,207	\$ 9,294,916	3.2%	2.7%	129
<b>Top 7 Sub-Total</b>	<b>7,284,673</b>	<b>\$ 279,948,125</b>	<b>85.3%</b>	<b>82.2%</b>	<b>3,502</b>
Pile Driver	181,764	\$ 9,710,884	2.1%	2.9%	87
Painter	145,791	\$ 5,694,571	1.7%	1.7%	70
Cement Mason	127,925	\$ 4,502,346	1.5%	1.3%	62
Boilermaker	119,116	\$ 6,273,157	1.4%	1.8%	57
Building/Construction Inspector	88,112	\$ 4,971,555	1.0%	1.5%	42
Roofer	48,560	\$ 1,644,936	0.6%	0.5%	23
Field Surveyor	21,754	\$ 1,245,559	0.3%	0.4%	10
Sheet Metal Worker	18,689	\$ 892,619	0.2%	0.3%	9
Drywall Installer/Lather	10,796	\$ 458,160	0.1%	0.1%	5
Bricklayer	8,620	\$ 329,139	0.1%	0.1%	4
Plasterer	8,095	\$ 289,822	0.1%	0.1%	4
Electrical Utility Lineman	6,909	\$ 425,367	0.1%	0.1%	3
Glazier	4,347	\$ 214,828	0.1%	0.1%	2
Metal Roofing Systems Installer	2,586	\$ 92,217	0.0%	0.0%	1
Asbestos Worker, Heat and Frost Insu	920	\$ 55,784	0.0%	0.0%	0
Brick Tender	895	\$ 30,418	0.0%	0.0%	0
Carpet Layer	354	\$ 16,311	0.0%	0.0%	0
Tile Setter	351	\$ 12,929	0.0%	0.0%	0
Tile Finisher	277	\$ 5,836	0.0%	0.0%	0
Terrazzo Worker	199	\$ 8,163	0.0%	0.0%	0
Driver	182	\$ 19,110	0.0%	0.0%	0
Marble Finisher	40	\$ 1,342	0.0%	0.0%	0
Terrazzo Finisher	4	\$ 160	0.0%	0.0%	0
<b>Remaining Apprenticeable Sub-Total</b>	<b>796,283</b>	<b>\$ 36,895,216</b>	<b>9.3%</b>	<b>10.8%</b>	<b>383</b>
<b>Total Non-Apprenticeable</b>	<b>459,107</b>	<b>\$ 23,803,952</b>	<b>5.4%</b>	<b>7.0%</b>	<b>221</b>
<b>Total WSIP-Covered by PLA</b>	<b>8,540,063</b>	<b>\$ 340,647,292</b>	<b>100.0%</b>	<b>100.0%</b>	<b>4,106</b>

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This chart summarizes WSIP PLA-covered craft employment for trades with the largest number of craft hours as of June 30, 2019. Laborers, Operating Engineers, Carpenters, and Tunnel Workers combined represent 72% of craft hours worked on PLA-covered projects.



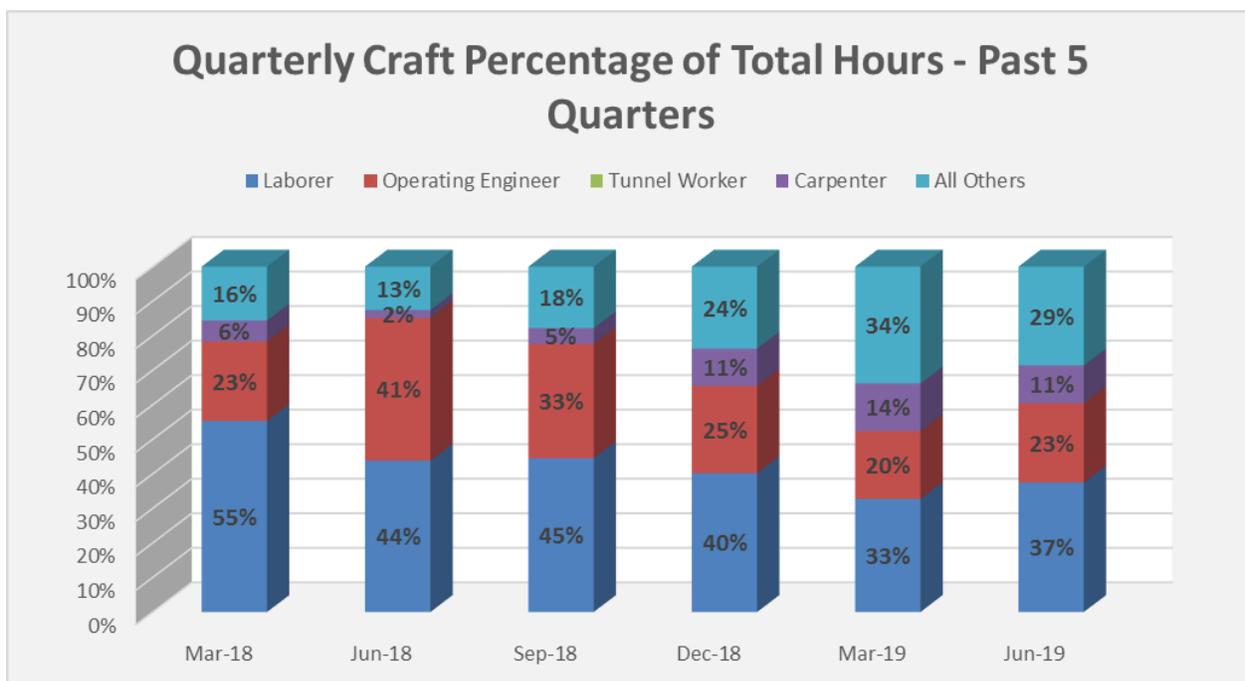
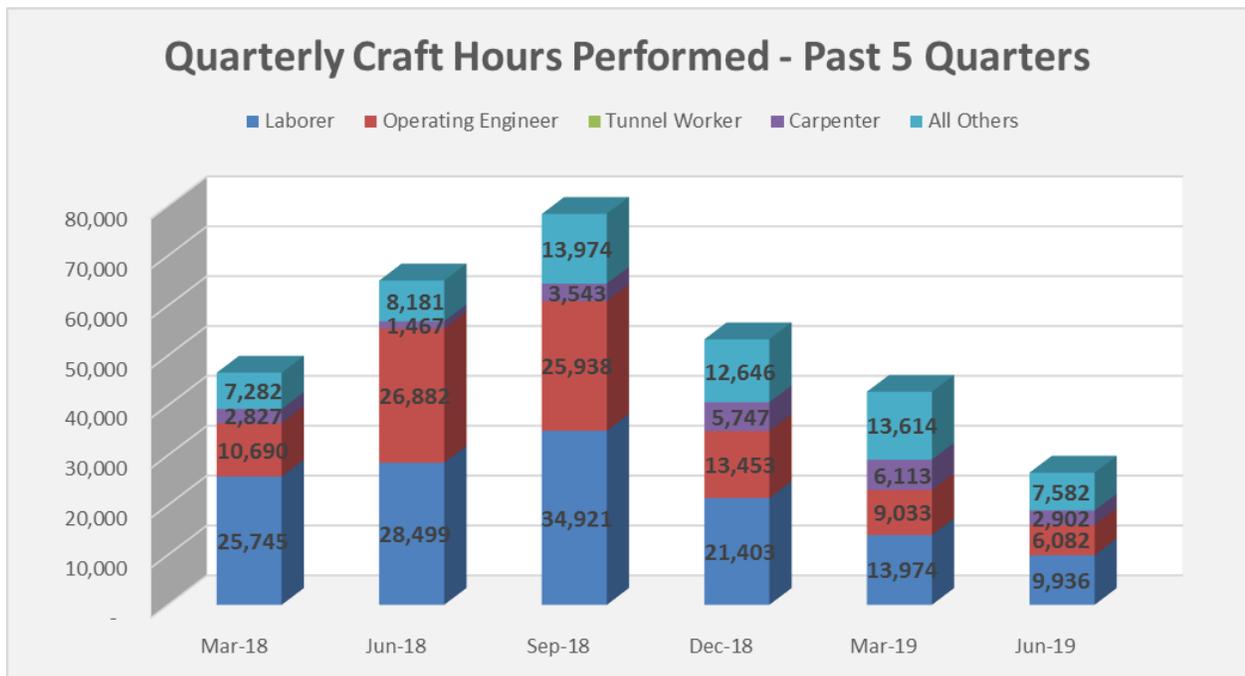
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The table below reflects the values of hours and wages for each trade cumulatively since the inception of the WSIP and for the most recent reporting period.

Craft	Total Cumulative Hours	Total Cumulative Wages	Quarter Ending 6-30-2019 Hours	Quarter Ending 6-30-2019 Wages
Laborer	2,925,303	\$ 90,736,039	9,936	\$ 352,271
Operating Engineer	1,840,168	\$ 77,399,221	6,082	\$ 317,375
Carpenter	741,251	\$ 31,446,181	2,902	\$ 143,222
Tunnel Worker	612,964	\$ 26,175,557	-	\$ -
Electrician	472,862	\$ 25,029,132	2,844	\$ 176,654
Plumber	422,919	\$ 19,867,080	1,649	\$ 99,579
Iron Worker	269,207	\$ 9,294,916	772	\$ 30,622
Pile Driver	181,764	\$ 9,710,884	8	\$ 426
Painter	145,791	\$ 5,694,571	151	\$ 5,223
Cement Mason	127,925	\$ 4,502,346	-	\$ -
Boilermaker	119,116	\$ 6,273,157	-	\$ -
Building/Construction Inspector	88,112	\$ 4,971,555	942	\$ 38,834
Roofer	48,560	\$ 1,644,936	204	\$ 7,417
Field Surveyor	21,754	\$ 1,245,559	53	\$ 2,279
Sheet Metal Worker	18,689	\$ 892,619	20	\$ 1,287
Drywall Installer/Lather	10,796	\$ 458,160	-	\$ -
Bricklayer	8,620	\$ 329,139	-	\$ -
Plasterer	8,095	\$ 289,822	539	\$ 19,798
Electrical Utility Lineman	6,909	\$ 425,367	-	\$ -
Glazier	4,347	\$ 214,828	-	\$ -
Metal Roofing Systems Installer	2,586	\$ 92,217	-	\$ -
Asbestos Worker, Heat and Frost Insulator	920	\$ 55,784	16	\$ 1,090
Brick Tender	895	\$ 30,418	-	\$ -
Carpet Layer	354	\$ 16,311	-	\$ -
Tile Setter	351	\$ 12,929	-	\$ -
Tile Finisher	277	\$ 5,836	-	\$ -
Terrazzo Worker	199	\$ 8,163	-	\$ -
Driver	182	\$ 19,110	-	\$ -
Marble Finisher	40	\$ 1,342	-	\$ -
Terrazzo Finisher	4	\$ 160	-	\$ -
<b>Total</b>	<b>8,080,956</b>	<b>\$ 316,843,341</b>	<b>26,116</b>	<b>\$ 1,196,077</b>
Teamster	136,046	\$ 6,426,415	384	\$ 25,832
Driver (On/Off-Hauling To/From Construction Site)	97,691	\$ 7,270,512	-	\$ -
Operating Engineer (Heavy And Highway Work) (Special)	95,289	\$ 4,512,513	-	\$ -
Tunnel/Underground (Operating Engineer-Heavy And Highway Work)	79,393	\$ 3,676,393	-	\$ -
Asbestos Removal Worker (Laborer)	17,057	\$ 435,487	-	\$ -
Tunnel/Underground (Operating Engineer-Heavy And Highway Work)	13,201	\$ 590,532	-	\$ -
Water Well Driller	12,313	\$ 608,914	-	\$ -
Tree Trimmer (High Voltage Line Clearance)	1,422	\$ 36,006	-	\$ -
Telecommunications Technician	1,160	\$ 37,245	-	\$ -
Landscape Maintenance Laborer	1,131	\$ 32,404	-	\$ -
Steel Erector And Fabricator (Operating Engineer - Heavy And Highway Work)	1,123	\$ 56,467	-	\$ -
Traffic Control/Lane Closure (Laborer)	888	\$ 31,991	-	\$ -
Dredger Operating Engineer	831	\$ 33,307	-	\$ -
Operating Engineer (Building Construction)	635	\$ 24,810	-	\$ -
Slurry Seal Worker	592	\$ 17,811	-	\$ -
Parking And Highway Improvement Painter (Painter)	247	\$ 10,082	-	\$ -
Ironworker (Db)	80	\$ 2,772	-	\$ -
Teamster (Special Single Shift Rate)	11	\$ 291	-	\$ -
<b>Total Non-Apprenticeable</b>	<b>459,107</b>	<b>\$ 23,803,952</b>	<b>384</b>	<b>\$ 25,832</b>
<b>Total Apprenticable</b>	<b>8,080,956</b>	<b>\$ 316,843,341</b>	<b>26,116</b>	<b>\$ 1,196,077</b>
<b>Total WSIP PLA</b>	<b>8,540,063</b>	<b>\$ 340,647,292</b>	<b>26,500</b>	<b>\$ 1,221,909</b>

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The charts below represent *Quarterly* participation of the largest four participating trade categories and all others combined on WSIP PLA-covered projects.

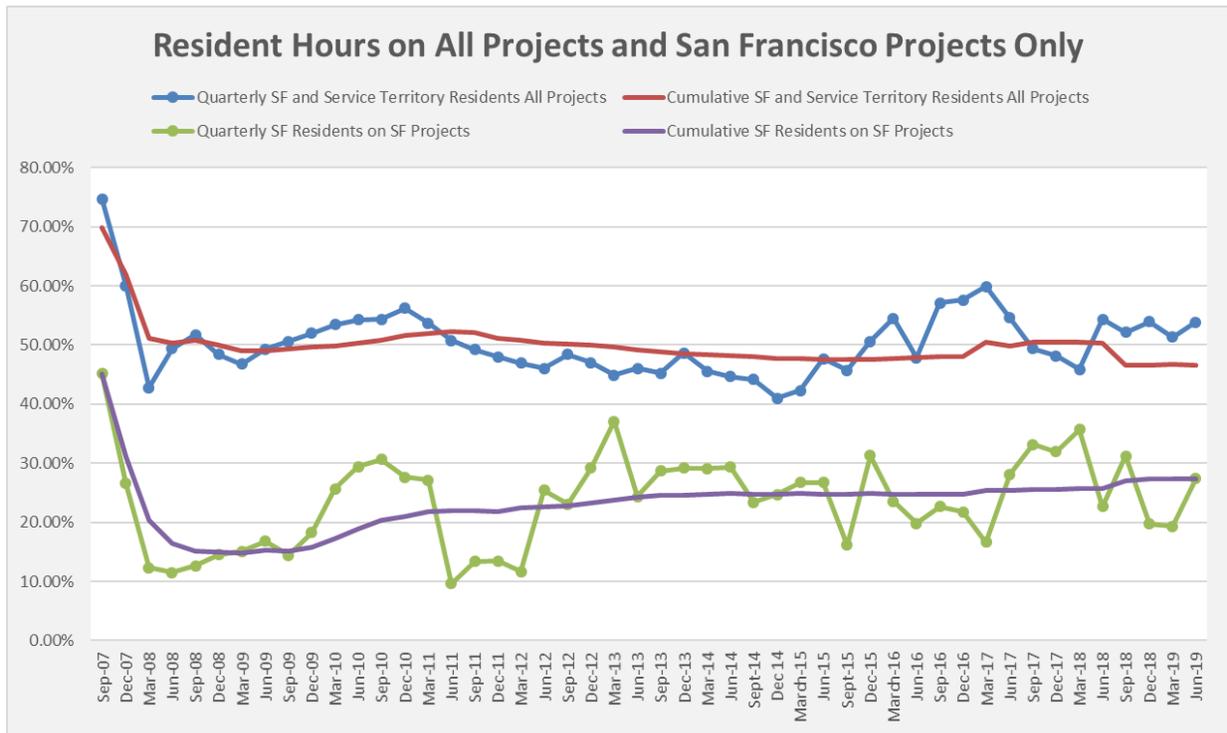


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**Worker Residence on the WSIP PLA**

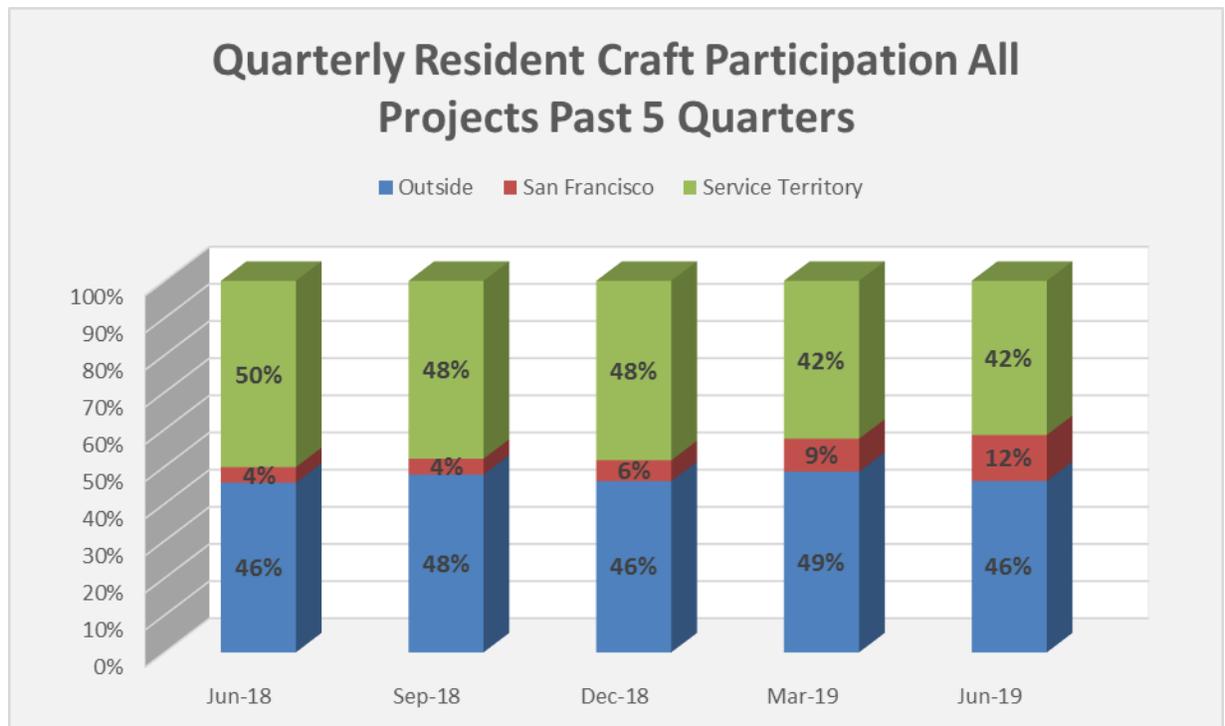
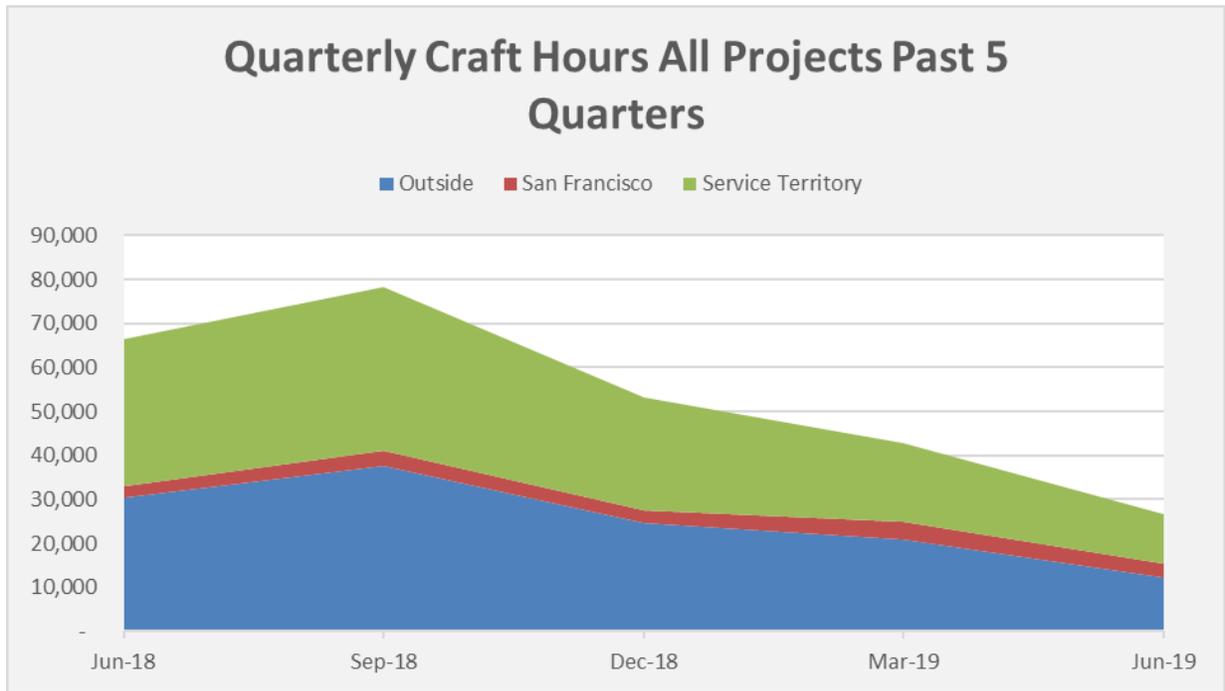
The Regional Service Territory, covering seven counties, is defined as zip codes outside San Francisco and within which the SFPUC delivers wholesale water, in addition to zip codes impacted by WSIP construction.

The following chart summarizes the employment percentages of residents of San Francisco and the Regional Service Territory on WSIP PLA-covered projects through June 30, 2019.



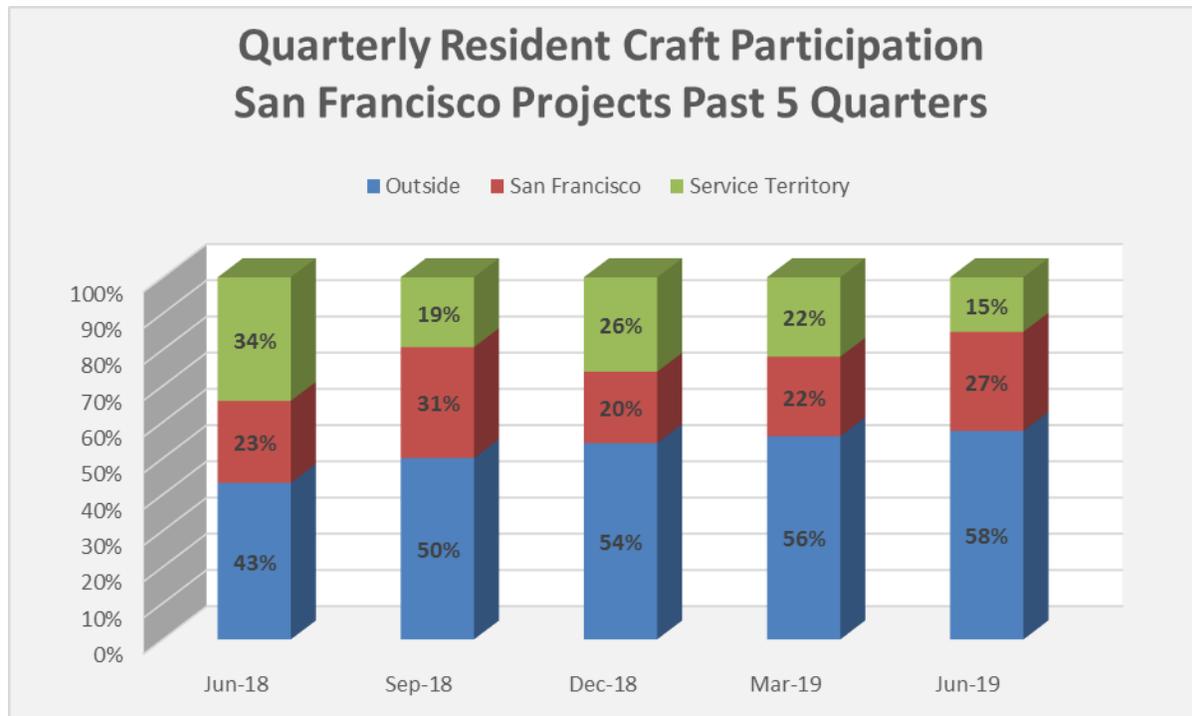
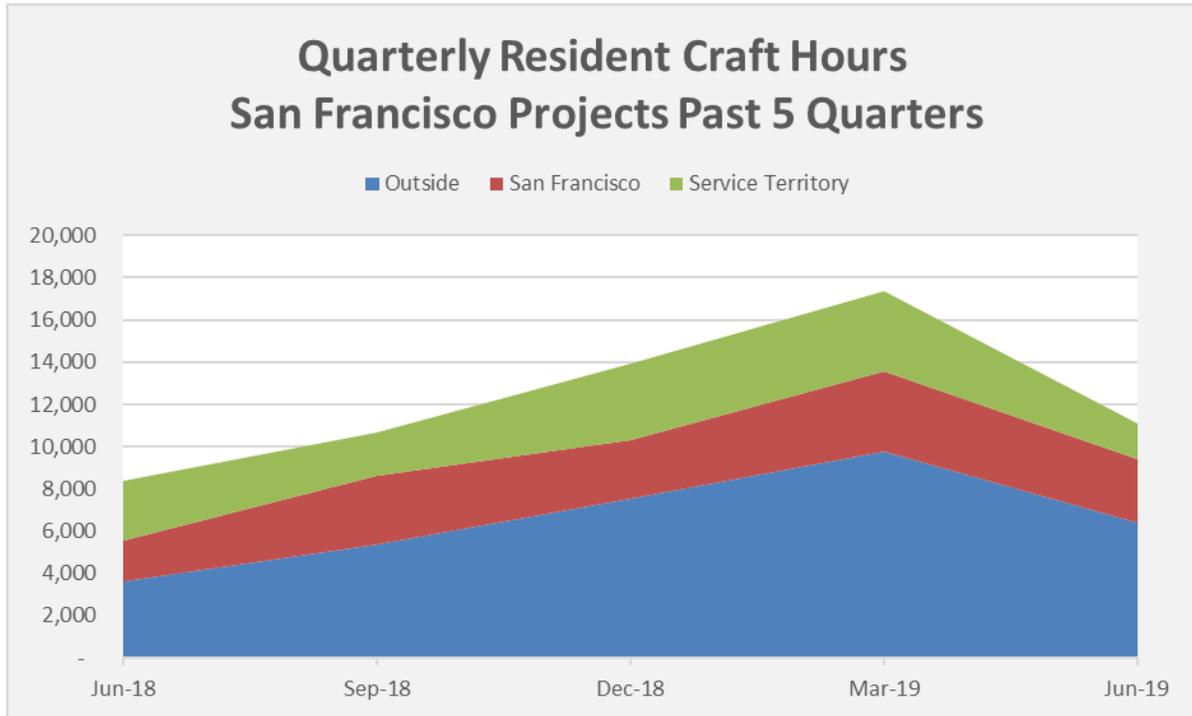
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**Residence on ALL WSIP PLA Projects** - Charted are 58 of the 58 total projects covered under the WSIP PLA within San Francisco and the Service Territory.



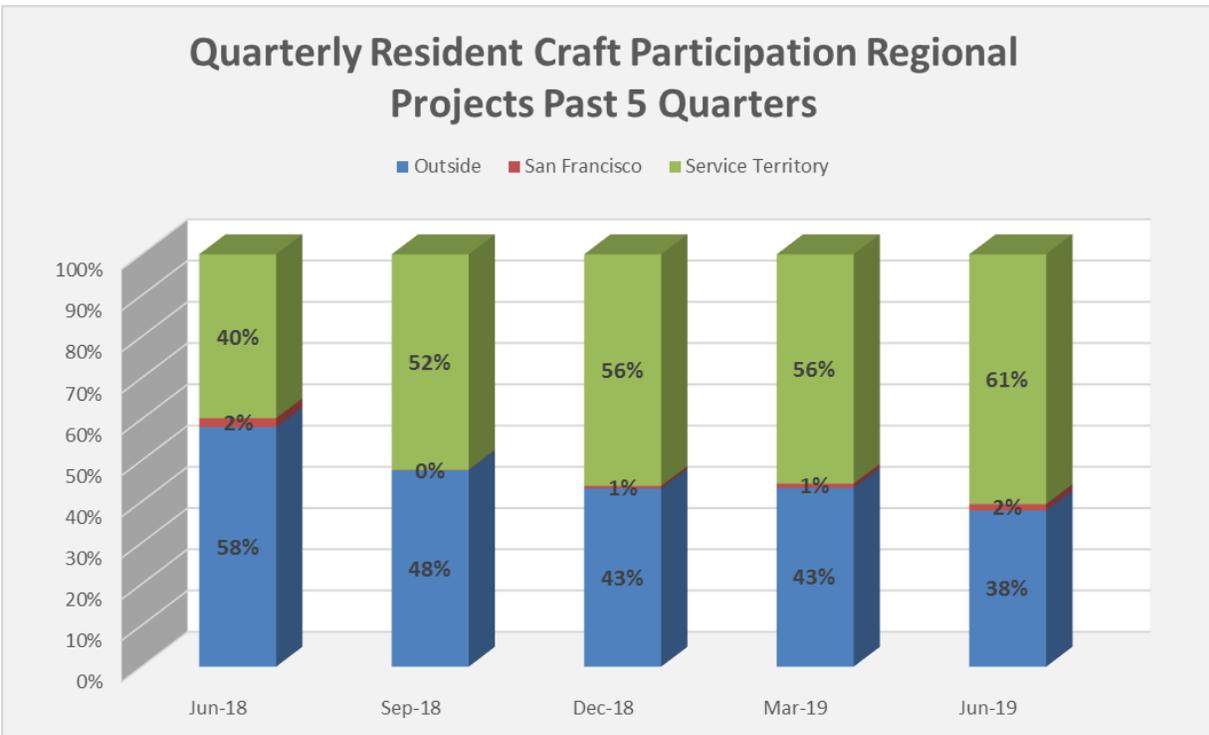
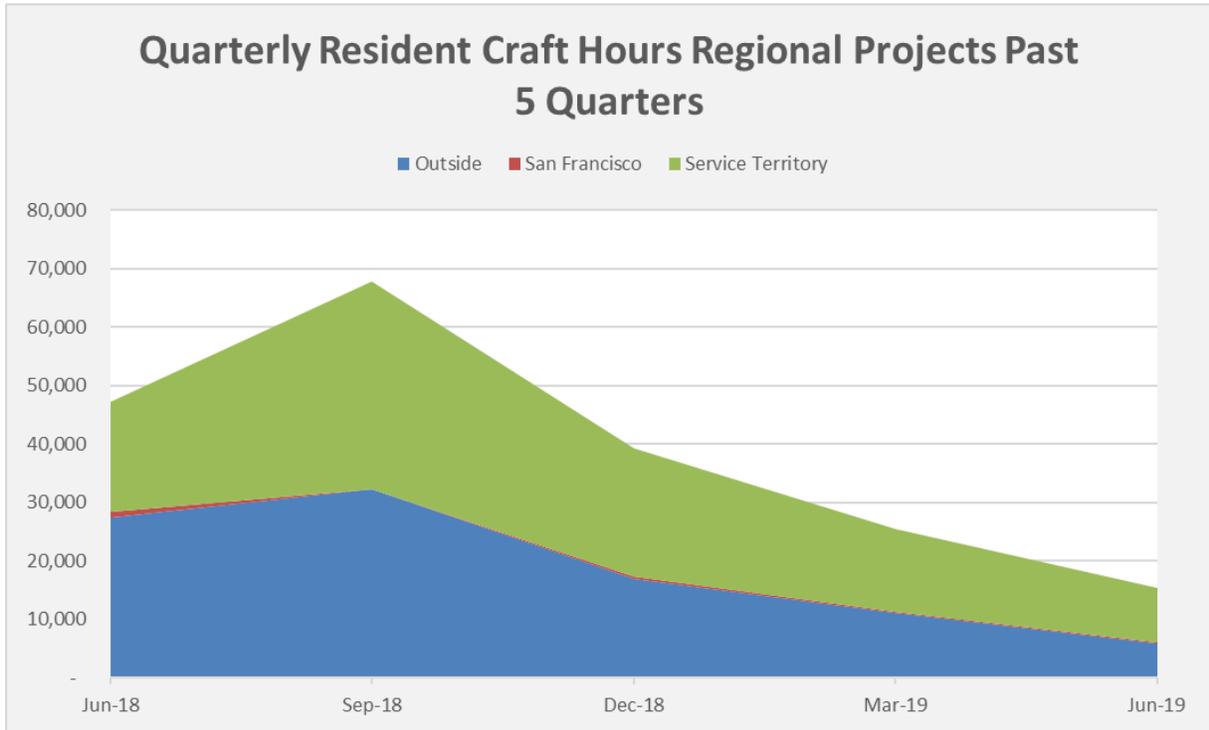
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**Residence on San Francisco-located WSIP PLA Projects** - Charted are the 17 projects covered by the WSIP PLA located within San Francisco only.



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**Residence on Regionally-located WSIP PLA Projects** - Charted are the 41 projects covered by the WSIP PLA located within the Regional Service Territory.



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**Residence by County**

Sorted by Total Craft Hours

<b>WSIP-PLA Employment by Top 20 Counties of Residence</b>					
Inception Through June 30, 2019					
County	Total Craft Hours	Wages	% Craft Hours	Worker Count	FTE
Alameda	1,527,387	\$ 57,184,986	17.9%	2,760	734
Contra Costa	1,210,621	\$ 47,846,393	14.2%	1,884	582
San Joaquin	835,115	\$ 31,634,680	9.8%	1,187	401
San Mateo	730,210	\$ 29,638,654	8.6%	1,185	351
<b>San Francisco</b>	<b>589,999</b>	<b>\$ 22,390,762</b>	<b>6.9%</b>	<b>1,214</b>	<b>284</b>
Santa Clara	442,371	\$ 17,691,107	5.2%	1,222	213
Solano	427,244	\$ 17,240,137	5.0%	821	205
Stanislaus	385,675	\$ 14,311,852	4.5%	592	185
Sacramento	345,269	\$ 14,111,563	4.0%	580	166
Butte	212,327	\$ 8,402,934	2.5%	127	102
Sonoma	184,092	\$ 7,447,827	2.2%	326	89
Placer	111,265	\$ 5,035,937	1.3%	128	53
Tuolumne	102,588	\$ 3,982,918	1.2%	99	49
Calaveras	101,552	\$ 4,515,018	1.2%	77	49
El Dorado	88,325	\$ 3,757,538	1.0%	83	42
Los Angeles	71,488	\$ 3,227,785	0.8%	143	34
Yolo	71,160	\$ 2,971,384	0.8%	89	34
Shasta	69,543	\$ 3,231,618	0.8%	43	33
Riverside	65,996	\$ 3,122,393	0.8%	111	32
Clark	61,915	\$ 2,831,513	0.7%	71	30
<b>Top 20 Counties by Hours</b>	<b>7,634,142</b>	<b>\$ 300,577,000</b>	<b>89.4%</b>	<b>12,742</b>	<b>3,670</b>
All Other Counties	905,921	\$ 24,844,477	10.6%	1,426	436
<b>WSIP-PLA Total</b>	<b>8,540,063</b>	<b>\$ 325,421,476</b>	<b>100.0%</b>	<b>14,168</b>	<b>4,106</b>

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**San Francisco Residents by Zip Code**

Sorted by Total Craft Hours

<b>Employment by San Francisco Zip Code</b>					
Inception Through June 30, 2019					
San Francisco Zip Codes	Total Workers				
	Total Craft Hours	Wages	% Total Craft Hours	Worker Count	FTE
94112	113,701	\$ 3,973,769	19.3%	196	55
94124	99,260	\$ 3,886,383	16.8%	250	48
94116	82,954	\$ 3,850,067	14.1%	78	40
94110	78,912	\$ 2,740,438	13.4%	170	38
94134	42,556	\$ 1,295,054	7.2%	113	20
94122	31,801	\$ 1,385,342	5.4%	62	15
94103	25,402	\$ 789,859	4.3%	38	12
94121	25,336	\$ 990,768	4.3%	47	12
94127	20,099	\$ 721,522	3.4%	20	10
94132	8,932	\$ 348,746	1.5%	30	4
94102	8,640	\$ 384,054	1.5%	19	4
94118	8,394	\$ 411,471	1.4%	21	4
94131	8,101	\$ 307,169	1.4%	22	4
94117	7,957	\$ 200,923	1.3%	18	4
94107	7,730	\$ 288,935	1.3%	25	4
94133	5,854	\$ 216,070	1.0%	7	3
94114	4,889	\$ 189,578	0.8%	14	2
94164	3,451	\$ 98,256	0.6%	1	2
94109	3,403	\$ 100,513	0.6%	20	2
94130	3,391	\$ 73,060	0.6%	9	2
94108	3,348	\$ 71,658	0.6%	6	2
94115	1,773	\$ 51,839	0.3%	23	1
94188	1,391	\$ 33,477	0.2%	3	1
94142	1,318	\$ 57,607	0.2%	7	1
94111	661	\$ 14,669	0.1%	3	0
94104	523	\$ 13,179	0.1%	2	0
94123	496	\$ 24,939	0.1%	2	0
94129	447	\$ 13,106	0.1%	1	0
94140	288	\$ 11,589	0.0%	1	0
94119	255	\$ 7,976	0.0%	1	0
94147	162	\$ 4,785	0.0%	1	0
94105	141	\$ 2,599	0.0%	3	0
94125	29	\$ 994	0.0%	1	0
94158	16	\$ 362	0.0%	2	0
<b>Total</b>	<b>589,999</b>	<b>\$ 22,390,762</b>	<b>100.0%</b>	<b>1,214</b>	<b>284</b>
<b>WSIP-PLA Total</b>	<b>8,540,063</b>	<b>\$ 340,647,292</b>	<b>-</b>		<b>4,106</b>

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**Residence by Craft**

Sorted by Total Hours

Cumulative Employment of Residents By Craft Inception Through June 30, 2019							
Craft	Total Hours	San Francisco Hours	SFPUC Service Territory Hours	Outside Hours	% San Francisco Hours	% Service Territory Hours	% Outside Hours
Operating Engineer	1,840,168	64,204	656,445	1,119,519	3.5%	35.7%	60.8%
Carpenter	741,251	86,242	302,914	352,095	11.6%	40.9%	47.5%
Tunnel Worker	612,964	11,171	208,750	393,043	1.8%	34.1%	64.1%
Electrician	472,862	24,022	252,656	196,185	5.1%	53.4%	41.5%
Plumber	422,919	87,648	140,047	195,224	20.7%	33.1%	46.2%
Iron Worker	269,207	18,008	103,240	147,959	6.7%	38.3%	55.0%
Pile Driver	181,764	6,526	53,970	121,268	3.6%	29.7%	66.7%
Painter	145,791	9,511	16,980	119,300	6.5%	11.6%	81.8%
Cement Mason	127,925	9,858	54,960	63,108	7.7%	43.0%	49.3%
Boilermaker	119,116	48	22,939	96,129	0.0%	19.3%	80.7%
Building/Construction Inspector	88,112	3,947	11,927	72,238	4.5%	13.5%	82.0%
Roofer	48,560	4,449	25,162	18,949	9.2%	51.8%	39.0%
Field Surveyor	21,754	1,382	4,038	16,335	6.4%	18.6%	75.1%
Sheet Metal Worker	18,689	2,217	10,683	5,790	11.9%	57.2%	31.0%
Drywall Installer/Lather	10,796	4,138	1,796	4,863	38.3%	16.6%	45.0%
Bricklayer	8,620	82	4,060	4,478	1.0%	47.1%	52.0%
Plasterer	8,095	4,534	1,124	2,438	56.0%	13.9%	30.1%
Electrical Utility Lineman	6,909	-	186	6,723	0.0%	2.7%	97.3%
Glazier	4,347	1,028	1,395	1,925	23.6%	32.1%	44.3%
Metal Roofing Systems Installer	2,586	39	2,252	296	1.5%	87.1%	11.4%
Asbestos Worker, Heat and Frost Insulator	920	-	229	691	0.0%	24.9%	75.1%
Brick Tender	895	287	19	589	32.1%	2.1%	65.8%
Carpet Layer	354	111	89	154	31.4%	25.1%	43.5%
Tile Setter	351	-	344	7	0.0%	98.0%	2.0%
Tile Finisher	277	-	237	40	0.0%	85.6%	14.4%
Terrazzo Worker	199	-	-	199	0.0%	0.0%	100.0%
Driver	182	182	-	-	100.0%	0.0%	0.0%
Marble Finisher	40	-	40	-	0.0%	100.0%	0.0%
Terrazzo Finisher	4	-	4	-	0.0%	100.0%	0.0%
<b>Total Apprenticeable</b>	<b>5,155,652</b>	<b>339,629</b>	<b>1,876,482</b>	<b>2,939,541</b>	<b>6.6%</b>	<b>36.4%</b>	<b>57.0%</b>
LABORER	2,925,303	223,775	1,265,924	1,435,604	7.6%	39.8%	58.5%
<b>Non-Apprenticeable</b>							
Teamster	136,046	9,147	80,230	46,669	6.7%	59.0%	34.3%
Driver (On/Off-Hauling To/From Construction)	97,691	16,246	65,652	15,793	16.6%	67.2%	16.2%
Operating Engineer (Heavy And Highway Wd	95,289	-	38,906	56,383	0.0%	40.8%	59.2%
Tunnel/Underground (Operating Engineer-He	79,393	70	34,872	44,451	0.1%	43.9%	56.0%
Asbestos Removal Worker (Laborer)	17,057	951	2,161	13,945	5.6%	12.7%	81.8%
Tunnel/Underground (Operating Engineer-He	13,201	-	3,832	9,369	0.0%	29.0%	71.0%
Water Well Driller	12,313	-	7,177	5,136	0.0%	58.3%	41.7%
Tree Trimmer (High Voltage Line Clearance)	1,422	32	1,191	199	2.3%	83.8%	14.0%
Telecommunications Technician	1,160	-	1,088	72	0.0%	93.8%	6.2%
Landscape Maintenance Laborer	1,131	16	614	501	1.4%	54.3%	44.3%
Steel Erector And Fabricator (Operating Eng	1,123	-	282	841	0.0%	25.1%	74.9%
Traffic Control/Lane Closure (Laborer)	888	-	691	198	0.0%	77.8%	22.2%
Dredger Operating Engineer	831	-	-	831	0.0%	0.0%	100.0%
Operating Engineer (Building Construction)	635	133	229	273	20.9%	36.1%	43.0%
Slurry Seal Worker	592	-	337	255	0.0%	56.9%	43.1%
Parking And Highway Improvement Painter (	247	-	165	82	0.0%	66.8%	33.2%
Ironworker (Db)	80	-	24	56	0.0%	30.0%	70.0%
Teamster (Special Single Shift Rate)	11	-	-	11	0.0%	0.0%	100.0%
<b>Total Non-Apprenticeable</b>	<b>459,107</b>	<b>26,595</b>	<b>237,450</b>	<b>195,062</b>	<b>5.8%</b>	<b>51.7%</b>	<b>42.5%</b>
<b>Total WSIP PLA</b>	<b>8,540,063</b>	<b>589,999</b>	<b>3,379,857</b>	<b>4,570,207</b>	<b>6.9%</b>	<b>39.6%</b>	<b>53.5%</b>

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**Residence by Project**

Sorted by Total Hours

Employment Summary - Cumulative Employment of Residents by Project							
Craft Employment Summary Through June 30, 2019							
Project	Total Hours	San Francisco Hours	Service Territory Hours	Outside Hours	% San Francisco Hours	% SFPUC Service Territory Hours	% Outside Hours
WD-2551 - Calaveras Dam Replaceme	1,531,044	4,664	571,846	954,533	0.3%	37.4%	62.3%
WD-2596 - Harry Tracy Water Treatmer	1,013,848	49,559	368,135	596,155	4.9%	36.3%	58.8%
WD-2581 - New Irvington Tunnel	730,536	4,132	319,860	406,545	0.6%	43.8%	55.7%
WD-2531 - Bay Division Pipelines Relia	583,318	15,154	257,574	310,590	2.6%	44.2%	53.2%
WD-2601 - Crystal Springs / San Andre	489,160	25,325	193,302	270,533	5.2%	39.5%	55.3%
WD-2582 - Sunol Valley Water Treatme	462,423	9,292	174,479	278,653	2.0%	37.7%	60.3%
WD-2542 - Bay Division Pipeline No. 5	288,044	5,836	129,660	152,548	2.0%	45.0%	53.0%
CS-936 - Advanced Meter Infrastructure	227,027	78,220	83,691	65,115	34.5%	36.9%	28.7%
WD-2541 - Bay Division Pipeline No. 5	208,058	13,608	85,977	108,472	6.5%	41.3%	52.1%
WD-2539 - University Mound Reservoir	187,016	49,450	51,060	86,507	26.4%	27.3%	46.3%
WD-2729 - Fish Passage Facilities Wit	164,599	1,159	70,488	92,952	0.7%	42.8%	56.5%
WD-2668 - Regional Groundwater Stora	158,061	26,423	79,765	51,873	16.7%	50.5%	32.8%
WD-2627R - Sutro Reservoir Rehabilitat	154,545	49,147	39,763	65,635	31.8%	25.7%	42.5%
HH-935C - San Joaquin Pipeline System	143,988	83	80,508	63,397	0.1%	55.9%	44.0%
DB-116 - Tesla Treatment Facility	141,910	3,122	93,841	44,948	2.2%	66.1%	31.7%
WD-2629 - Seismic Upgrade of Bay Div	134,349	1,815	52,403	80,131	1.4%	39.0%	59.6%
WD-2552 - Alameda Siphon No. 4 Proj	129,485	1,450	54,019	74,017	1.1%	41.7%	57.2%
WD-2555 - Crystal Springs Pipeline No	127,763	31,147	36,395	60,221	24.4%	28.5%	47.1%
WD-2498 - New Crystal Springs Bypass	117,821	9,557	64,371	43,894	8.1%	54.6%	37.3%
WD-2652 - Bioregional Habitat Restora	110,655	3,693	45,574	61,388	3.3%	41.2%	55.5%
WD-2548 - Lake Merced Pump Station	101,050	28,541	25,790	46,720	28.2%	25.5%	46.2%
HH-935B - San Joaquin Pipeline System	100,492	111	41,614	58,767	0.1%	41.4%	58.5%
WD-2591 - Lower Crystal Springs Dam	98,562	5,463	52,743	40,356	5.5%	53.5%	40.9%
HH-935A - San Joaquin Pipeline System	84,483	223	45,318	38,942	0.3%	53.6%	46.1%
WD-2513 - San Andreas Pipeline No.3	83,503	6,978	28,219	48,306	8.4%	33.8%	57.8%
WD-2575 - San Antonio Backup Pipelin	75,263	8,780	31,767	34,716	11.7%	42.2%	46.1%
WD-2504 - Stanford Heights Reservoir S	74,294	14,461	20,361	39,472	19.5%	27.4%	53.1%
WD-2501 - Alemany Pump Station	74,085	8,629	29,073	36,382	11.6%	39.2%	49.1%
WD-2727 - Peninsula Pipeline Seismic	69,772	13,891	23,679	32,203	19.9%	33.9%	46.2%
WD-2543 - North University Mound Sys	53,265	13,940	14,613	24,713	26.2%	27.4%	46.4%
WD-2621R - San Francisco Groundwat	52,623	14,641	8,965	29,018	27.8%	17.0%	55.1%
WD-2573 - Pulgas Balancing Reservoir	50,367	6,669	25,461	18,237	13.2%	50.6%	36.2%
WD-2776 - San Francisco Westside Re	50,349	13,600	12,636	24,113	27.0%	25.1%	47.9%
WD-2568 - BDPL Nos. 3&4 Crossover P	47,910	4,201	13,222	30,486	8.8%	27.6%	63.6%
WD-2641R - Habitat Reserve Program,	44,018	8,771	10,167	25,081	19.9%	23.1%	57.0%
WD-2564 - Harry Tracy Water Treatmer	43,049	8,445	15,208	19,397	19.6%	35.3%	45.1%
WD-2798 - San Francisco Westside Re	38,039	11,846	12,495	13,699	31.1%	32.8%	36.0%
WD-2654R - Peninsula Vegetation Rem	30,464	4,839	9,727	15,897	15.9%	31.9%	52.2%
WD-2469 - Forest Knolls Pump Station	26,553	6,156	5,766	14,631	23.2%	21.7%	55.1%
WD-2666 - Bioregional Habitat Restora	23,492	46	6,377	17,069	0.2%	27.1%	72.7%
WD-2623 - Harding Park Recycled Wat	22,727	4,776	12,625	5,327	21.0%	55.6%	23.4%
WD-2651R - Peninsula 2011 Watershed	22,569	557	10,940	11,072	2.5%	48.5%	49.1%
WD-2529 - Noe Valley Transmission Ma	22,511	6,853	7,279	8,379	30.4%	32.3%	37.2%
WD-2665 - Bay Division Pipeline Reliab	21,967	227	5,528	16,213	1.0%	25.2%	73.8%
WD-2556 - Baden and San Pedro Valve	19,939	2,720	15,270	1,949	13.6%	76.6%	9.8%
WD-2809 - San Francisco Groundwater	18,519	3,566	1,987	12,967	19.3%	10.7%	70.0%
WD-2622 - San Francisco Groundwater	17,782	3,487	2,138	12,157	19.6%	12.0%	68.4%
WD-2566 - San Antonio Pump Station	14,916	101	11,948	2,868	0.7%	80.1%	19.2%
HH-914R - Roselle Crossover Improvem	12,859	-	8,861	3,999	0.0%	68.9%	31.1%
HH-953 - Tesla Portal Protection	11,512	3,338	6,185	1,990	29.0%	53.7%	17.3%
WD-2511 - Standby Power Facilities, V	11,275	281	6,500	4,494	2.5%	57.6%	39.9%
WD-2640 - Bioregional Habitat Restora	10,621	667	4,028	5,926	6.3%	37.9%	55.8%
WD-2600 - Regional Groundwater Stora	6,088	-	296	5,792	0.0%	4.9%	95.1%
WD-2589 - Supervisory Control and Da	1,498	368	363	767	24.6%	24.2%	51.2%
<b>Total WSIP PLA</b>	<b>8,540,063</b>	<b>589,999</b>	<b>3,379,857</b>	<b>4,570,207</b>	<b>6.9%</b>	<b>39.6%</b>	<b>53.5%</b>

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**Apprentice Utilization**

The WSIP PLA supports the apprentice ratios provided by the State of California’s, Division of Apprenticeship Standards, generally one apprentice hour to every five journey-level hours.

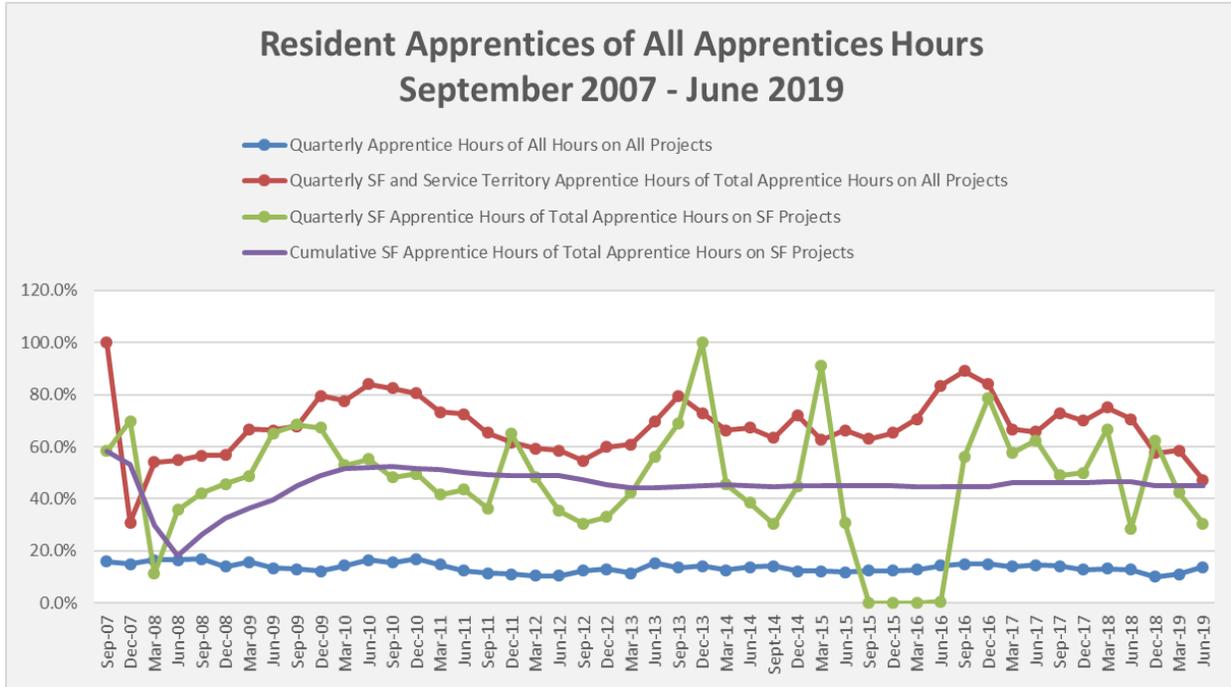
Through the end of the current quarter, 13.2% of craft hours in apprenticeable trades have been worked by apprentices. 17% of apprentice hours were worked by San Francisco residents and 56% were worked by residents of the Regional Service Territory, or 73% combined.

Sorted by Total Craft Hours

Craft	Total Hours	Total Apprentice Hours	Apprentice Hours			Apprentice Utilization			Resident Apprentice %		
			San Francisco Hours	SFPUC ST Hours	Outside Hours	Apprentice % of Total Craft Hours	San Francisco Apprentice % of Total Craft Hours	Service Territory Apprentice % of Total Craft Hours	% of Craft Apprentice Hours Performed by San Francisco Residents	% of Craft Apprentice Hours Performed by Service Territory Residents	% of Craft Apprentice Hours Performed by Outside Residents
A - Operating Engineer	1,840,168	208,802	25,292	86,105	97,406	11.3%	1.4%	4.7%	12.1%	41.2%	46.6%
A - Carpenter	741,251	118,135	30,944	56,283	30,909	15.9%	4.2%	7.6%	26.2%	47.6%	26.2%
A - Tunnel Worker	612,964	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Electrician	472,862	89,478	9,963	63,067	16,448	18.9%	2.1%	13.3%	11.1%	70.5%	18.4%
A - Plumber	422,919	116,242	33,812	55,994	26,435	27.5%	8.0%	13.2%	29.1%	48.2%	22.7%
A - Iron Worker	269,207	59,784	10,819	26,603	22,362	22.2%	4.0%	9.9%	18.1%	44.5%	37.4%
A - Pile Driver	181,764	18,563	4,451	9,825	4,287	10.2%	2.4%	5.4%	24.0%	52.9%	23.1%
A - Painter	145,791	25,082	1,693	6,247	17,142	17.2%	1.2%	4.3%	6.7%	24.9%	68.3%
A - Cement Mason	127,925	6,164	3,889	1,124	1,151	4.8%	3.0%	0.9%	63.1%	18.2%	18.7%
A - Boilermaker	119,116	2,354	40	1,238	1,076	2.0%	0.0%	1.0%	1.7%	52.6%	45.7%
A - Building/Construction Inspe	88,112	5,024	5	1,250	3,769	5.7%	0.0%	1.4%	0.1%	24.9%	75.0%
A - Roofer	48,560	12,021	1,960	5,284	4,777	24.8%	4.0%	10.9%	16.3%	44.0%	39.7%
A - Field Surveyor	21,754	987	48	173	766	4.5%	0.2%	0.8%	4.9%	17.5%	77.6%
A - Sheet Metal Worker	18,689	2,877	293	1,555	1,030	15.4%	1.6%	8.3%	10.2%	54.0%	35.8%
A - Drywall Installer/Lather	10,796	473	60	283	130	4.4%	0.6%	2.6%	12.7%	59.8%	27.5%
A - Bricklayer	8,620	2,682	82	573	2,027	31.1%	1.0%	6.6%	3.1%	21.3%	75.6%
A - Plasterer	8,095	347	136	-	211	4.3%	1.7%	0.0%	39.2%	0.0%	60.8%
A - Electrical Utility Lineman	6,909	79	-	79	-	1.1%	0.0%	1.1%	0.0%	100.0%	0.0%
A - Glazier	4,347	564	402	20	142	13.0%	9.2%	0.5%	71.3%	3.5%	25.2%
A - Metal Roofing Systems Ins	2,586	757	-	757	-	29.3%	0.0%	29.3%	0.0%	100.0%	0.0%
A - Asbestos Worker, Heat and	920	26	-	-	26	2.8%	0.0%	0.0%	0.0%	0.0%	100.0%
A - Brick Tender	895	24	24	-	-	2.7%	2.7%	0.0%	100.0%	0.0%	0.0%
A - Carpet Layer	354	27	-	23	4	7.6%	0.0%	6.5%	0.0%	85.2%	14.8%
A - Tile Setter	351	20	-	20	-	5.7%	0.0%	5.7%	0.0%	100.0%	0.0%
A - Tile Finisher	277	40	-	-	40	14.4%	0.0%	0.0%	0.0%	0.0%	100.0%
A - Terrazzo Worker	199	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Driver	182	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Marble Finisher	40	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - Terrazzo Finisher	4	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sub-Total Apprenticeable	5,155,652	670,551	123,912	316,501	230,138	13.0%	2.4%	6.1%	18.5%	47.2%	34.3%
A - Laborer	2,925,303	398,966	44,843	258,893	95,230	13.6%	1.5%	8.9%	11.2%	64.9%	23.9%
Total Apprenticeable	8,080,956	1,069,517	168,755	575,395	325,368	13.2%	2.1%	7.1%	15.8%	53.8%	30.4%
Total Non-Apprenticeable	459,107										
Total WSIP - Covered by PLA	8,540,063										

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For the three months ending June 30, 2019, 31% of apprentice hours were worked by San Francisco resident apprentices on San Francisco-located WSIP PLA projects (green line). As the WISP program comes to a close, there are fewer opportunities for apprentices to perform work on projects resulting in the decrease of apprentice participation.



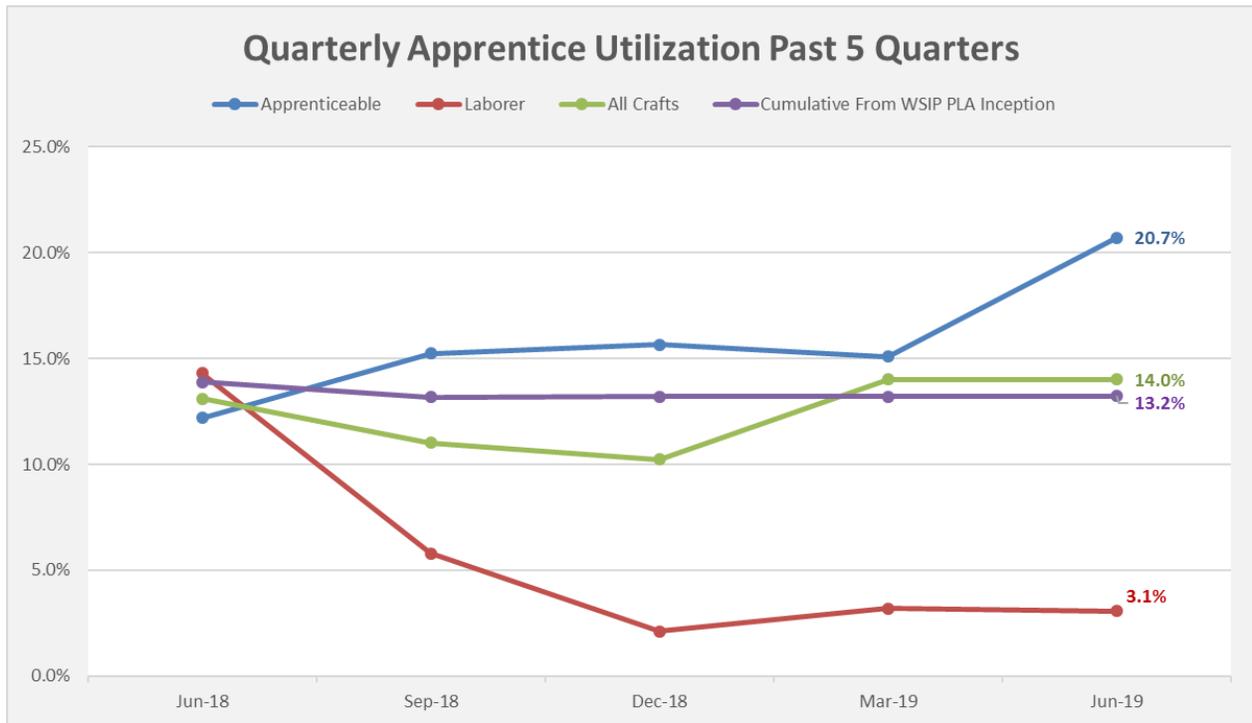
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The table below lists the WSIP PLA-covered Projects *sorted by Percentage of Apprentice Utilization* from highest to lowest. The total Apprentice Utilization for the entire WSIP is 13%. This is slightly lower than the 13.2% mentioned in the *Apprentice Utilization by Craft* chart (page 20) because the chart below reflects the Total Craft Hours which is slightly higher than the Total Apprenticeable and Laborer Hours used to calculate the percentage for crafts.

WSIP - Covered by PLA Apprentice Utilization By Project Inception Through June 30, 2019											
Project	Apprentice Utilization By Project										
	All Workers Hours				Apprentice Hours			Apprentice Utilization %			
	Total Craft Hours	Total Hours of Apprenticeable Trades	Total Non-Apprenticeable Hours	Total Laborer Hours	Total Apprenticeable and Laborer Hours	Apprenticeable Trades Hours	Apprentice Laborer Hours	Total Apprentice Hours	Apprenticeable Trades %	Apprentice Laborer %	Total Apprentice %
CS-936 - Advanced Meter Infr	227,027	226,142	-	885	227,027	79,373	-	79,373	35.1%	0.0%	35.0%
WD-2729 - Fish Passage Facil	164,599	110,781	6,045	47,773	158,554	25,910	4,511	30,421	23.4%	9.4%	19.2%
WD-2504 - Stanford Heights Re	74,294	40,444	-	33,851	74,294	9,134	757	9,891	22.6%	2.2%	13.3%
WD-2539 - University Mound R	187,016	106,316	1,199	79,502	185,818	23,851	6,500	30,350	22.4%	8.2%	16.3%
WD-2573 - Pulgas Balancing R	50,367	35,362	310	14,695	50,056	7,144	673	7,817	20.2%	4.6%	15.6%
WD-2627R - Sutro Reservoir Re	154,545	77,338	8,900	68,308	145,645	15,391	5,248	20,639	19.9%	7.7%	14.2%
WD-2641R - Habitat Reserve P	44,018	7,406	52	36,561	43,966	1,467	7,755	9,222	19.8%	21.2%	21.0%
WD-2668 - Regional Groundwa	158,061	99,018	1,079	57,964	156,981	18,467	7,351	25,818	18.7%	12.7%	16.4%
WD-2798 - San Francisco Wes	38,039	6,652	-	31,387	38,039	1,170	6,085	7,255	17.6%	19.4%	19.1%
HH-914R - Roselle Crossover In	12,859	7,968	163	4,729	12,697	1,384	559	1,943	17.4%	11.8%	15.3%
WD-2776 - San Francisco Wes	50,349	35,004	81	15,264	50,268	5,950	1,101	7,050	17.0%	7.2%	14.0%
DB-116 - Tesla Treatment Facil	141,910	97,738	1,863	42,310	140,047	16,580	10,411	26,991	17.0%	24.6%	19.3%
WD-2469 - Forest Knolls Pump	26,553	17,167	49	9,337	26,504	2,888	19	2,907	16.8%	0.2%	11.0%
WD-2582 - Sunol Valley Water	462,423	293,860	13,009	155,554	449,414	49,266	19,350	68,616	16.8%	12.4%	15.3%
WD-2809 - San Francisco Grou	18,519	8,063	-	10,457	18,519	1,332	481	1,813	16.5%	4.6%	9.8%
WD-2596 - Harry Tracy Water	1,013,848	675,958	39,423	298,468	974,425	108,428	35,995	144,423	16.0%	12.1%	14.8%
WD-2651R - Peninsula 2011 W	22,569	4,777	3,239	14,554	19,331	763	2,372	3,135	16.0%	16.3%	16.2%
WD-2589 - Supervisory Contro	1,498	728	-	771	1,498	115	-	115	15.8%	0.0%	7.7%
WD-2640 - Bioregional Habitat	10,621	4,487	813	5,321	9,809	701	914	1,615	15.6%	17.2%	16.5%
WD-2552 - Alameda Siphon Nd	129,485	75,401	8,009	46,075	121,476	11,667	9,053	20,720	15.5%	19.6%	17.1%
WD-2555 - Crystal Springs Pip	127,763	49,074	9,731	68,958	118,032	7,559	5,394	12,953	15.4%	7.8%	11.0%
WD-2548 - Lake Merced Pump	101,050	72,875	1,672	26,504	99,378	10,670	137	10,807	14.6%	0.5%	10.9%
WD-2727 - Peninsula Pipeline	69,772	30,072	3,583	36,117	66,189	4,312	7,547	11,858	14.3%	20.9%	17.9%
WD-2575 - San Antonio Backu	75,263	45,723	1,151	28,389	74,112	6,488	5,972	12,460	14.2%	21.0%	16.8%
WD-2513 - San Andreas Pipeli	83,503	28,638	11,956	42,909	71,547	3,994	5,317	9,311	13.9%	12.4%	13.0%
WD-2501 - Alemany Pump Sta	74,085	54,295	48	19,741	74,037	7,403	223	7,625	13.6%	1.1%	10.3%
WD-2621R - San Francisco Gr	52,623	31,711	-	20,912	52,623	4,322	1,903	6,225	13.6%	9.1%	11.8%
WD-2498 - New Crystal Spring	117,821	93,680	12,599	11,543	105,223	12,361	5,252	17,612	13.2%	45.5%	16.7%
WD-2568 - BDPL Nos. 3&4 Cr	47,910	31,539	2,093	14,278	45,817	3,818	720	4,538	12.1%	5.0%	9.9%
WD-2591 - Lower Crystal Sprin	98,562	41,053	1,162	56,348	97,400	4,833	3,853	8,685	11.8%	6.8%	8.9%
WD-2629 - Seismic Upgrade of	134,349	73,390	1,614	59,345	132,735	8,297	13,294	21,590	11.3%	22.4%	16.3%
WD-2601 - Crystal Springs / Sa	489,160	334,614	23,708	130,839	465,452	37,795	10,916	48,710	11.3%	8.3%	10.5%
WD-2541 - Bay Division Pipeli	208,058	88,905	12,802	106,351	195,256	10,026	10,170	20,196	11.3%	9.6%	10.3%
HH-953 - Tesla Portal Protecti	11,512	4,377	133	7,002	11,379	487	2,768	3,255	11.1%	39.5%	28.6%
WD-2566 - San Antonio Pump	14,916	8,241	137	6,539	14,780	859	939	1,798	10.4%	14.4%	12.2%
WD-2551 - Calaveras Dam Rep	1,531,044	863,340	36,402	631,302	1,494,642	87,731	98,383	186,114	10.2%	15.6%	12.5%
HH-935A - San Joaquin Pipelin	84,483	53,744	839	29,900	83,644	5,357	3,652	9,009	10.0%	12.2%	10.8%
HH-935C - San Joaquin Pipelin	143,988	89,174	1,840	52,974	142,148	8,862	8,401	17,263	9.9%	15.9%	12.1%
WD-2564 - Harry Tracy Water	43,049	22,612	80	20,358	42,969	2,089	-	2,089	9.2%	0.0%	4.9%
WD-2623 - Harding Park Recyc	22,727	7,869	456	14,403	22,271	696	949	1,645	8.8%	6.6%	7.4%
WD-2556 - Baden and San Ped	19,939	11,046	344	8,550	19,595	951	1,788	2,738	8.6%	20.9%	14.0%
WD-2542 - Bay Division Pipeli	288,044	90,020	31,498	166,526	256,546	7,049	19,161	26,210	7.8%	11.5%	10.2%
WD-2652 - Bioregional Habitat	110,655	19,428	2,526	88,700	108,128	1,492	19,170	20,661	7.7%	21.6%	19.1%
HH-935B - San Joaquin Pipelin	100,492	52,940	11,926	35,627	88,566	4,061	5,243	9,304	7.7%	14.7%	10.5%
WD-2511 - Standby Power Fac	11,275	9,046	-	2,230	11,275	626	-	626	6.9%	0.0%	5.6%
WD-2581 - New Irvington Tunne	730,536	546,830	99,798	83,908	630,738	31,860	19,891	51,750	5.8%	23.7%	8.2%
WD-2622 - San Francisco Grou	17,782	4,623	1,682	11,477	16,100	266	1,827	2,092	5.7%	15.9%	13.0%
WD-2543 - North University Mo	53,265	14,383	7,082	31,800	46,183	743	2,255	2,998	5.2%	7.1%	6.5%
WD-2531 - Bay Division Pipeli	583,318	412,690	91,164	79,463	492,154	14,153	18,238	32,391	3.4%	23.0%	6.6%
WD-2665 - Bay Division Pipeli	21,967	10,548	234	11,185	21,733	168	1,741	1,909	1.6%	15.6%	8.8%
WD-2666 - Bioregional Habitat	23,492	16,708	336	6,448	23,156	228	1,615	1,843	1.4%	25.0%	8.0%
WD-2654R - Peninsula Vegetat	30,464	5,842	189	24,433	30,275	24	1,694	1,718	0.4%	6.9%	5.7%
WD-2529 - Noe Valley Transmi	22,511	6,021	2,067	14,423	20,444	-	1,133	1,133	0.0%	7.9%	5.5%
WD-2600 - Regional Groundwa	6,088	-	4,027	2,061	2,061	-	296	296	0.0%	14.3%	14.3%
<b>WSIP - Covered by PLA (53 Pr</b>	<b>8,540,063</b>	<b>5,155,652</b>	<b>459,107</b>	<b>2,925,303</b>	<b>8,080,956</b>	<b>670,551</b>	<b>398,966</b>	<b>1,069,517</b>	<b>13.0%</b>	<b>13.6%</b>	<b>13.2%</b>

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The following chart indicates quarterly Apprentice Utilization over the past five (5) quarters ending June 30, 2019.



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**Substance Abuse Prevention**

The WSIP PLA requires pre-employment alcohol and drug testing for all covered employees. The policy also allows testing where the contractor has reasonable cause to believe that the employee has used drugs or alcohol, and mandates testing where a contractor concludes that an employee was under the influence of drugs or alcohol at the time of an accident. The SFPUC has extended the WSIP PLA substance abuse prevention policy to all contractor employees working on a job site.

**14,914** pre-employment tests have been administered as of June 30, 2019 to people who were cleared to work. 200 people did not pass pre-employment screens and consequently were prevented from working until the results could be confirmed through lab tests. Strict regulations and high compliance by the contractors have led to a mere **1.34%** of failed screenings. These numbers have a direct correlation with the outstanding safety record of the entire WSIP Enterprise. The chart is on the next page.

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<b>WSIP - Covered by PLA (54 Projects + AMI) Substance Abuse Testing Summary</b>	
Tests Administered to Individuals Cleared to Work Through 6/30/2019	
Project	Number Cleared
WD-2596 - Harry Tracy Water Treatment Plant Long-Term Improvements	2,401
WD-2551 - Calaveras Dam Replacement Project	2,122
WD-2601 - Crystal Springs / San Andreas Transmission System Upgrade	1,282
WD-2582 - Sunol Valley Water Treatment Plant and Treated Water Reservoir	704
WD-2581 - New Irvington Tunnel	651
WD-2531 - Bay Division Pipelines Reliability Upgrade - Bay Tunnel	581
WD-2548 - Lake Merced Pump Station Essential Upgrades	531
WD-2541 - Bay Division Pipeline No. 5 - East Bay Reaches	509
WD-2501 - Alemany Pump Station	375
DB-116 - Tesla Treatment Facility	374
HH-935C - San Joaquin Pipeline System - Eastern Segment & Other Facilities	335
WD-2539 - University Mound Reservoir North Basin Seismic Upgrades	319
WD-2542 - Bay Division Pipeline No. 5 - Peninsula Reaches	305
WD-2668 - Regional Groundwater Storage and Recovery	265
CS-936 - Advanced Meter Infrastructure	229
WD-2552 - Alameda Siphon No. 4 Project	229
HH-935B - San Joaquin Pipeline System - Western Segment	226
WD-2629 - Seismic Upgrade of Bay Division Pipeline Nos. 3&4 at the Hayward Fault	226
WD-2627R - Sutro Reservoir Rehabilitation and Seismic Upgrade	217
WD-2498 - New Crystal Springs Bypass (Polhemus) Tunnel	212
WD-2504 - Stanford Heights Reservoir Seismic Retrofit and Improvement	199
HH-935A - San Joaquin Pipeline System - Crossovers	186
WD-2573 - Pulgas Balancing Reservoir Structural Rehabilitation and Roof Replacement	184
WD-2568 - BDPL Nos. 3&4 Crossover Facilities	180
WD-2513 - San Andreas Pipeline No.3 Installation Project	178
WD-2729 - Fish Passage Facilities Within The Alameda Creek Watershed	153
WD-2776 - San Francisco Westside Recycled Water Treatment Facility at Oceanside Plant	141
WD-2575 - San Antonio Backup Pipeline	132
WD-2591 - Lower Crystal Springs Dam Improvements	125
WD-2469 - Forest Knolls Pump Station and Storage Tank Upgrade	115
WD-2555 - Crystal Springs Pipeline No.2 Replacement Project	98
WD-2621R - San Francisco Groundwater Supply Well Stations	97
WD-2564 - Harry Tracy Water Treatment Plant - Short Term Improvements Phases 2 and 3	95
WD-2652 - Bioregional Habitat Restoration, San Antonio Creek	90
WD-2556 - Baden and San Pedro Valve Lot Improvements	86
HH-914R - Roselle Crossover Improvements	72
WD-2566 - San Antonio Pump Station Upgrades Project	70
WD-2623 - Harding Park Recycled Water Project	65
WD-2651R - Peninsula 2011 Watershed Compensation, Sherwood Point, Adobe Gulch Creek, Skyline Q	63
WD-2727 - Peninsula Pipeline Seismic Upgrade	61
HH-953 - Tesla Portal Protection	59
WD-2543 - North University Mound System Upgrade	55
WD-2529 - Noe Valley Transmission Main - Phase II	47
WD-2665 - Bay Division Pipeline Reliability Upgrade Project - Bay Division Pipeline No. 5, Cordilleras Mic	43
WD-2654R - Peninsula Vegetation Removal	34
WD-2511 - Standby Power Facilities, Various Locations	30
WD-2666 - Bioregional Habitat Restoration, Sheep Camp Creek	30
WD-2589 - Supervisory Control and Data Acquisition SCADA System Phase II	28
WD-2641R - Habitat Reserve Program, Homestead Pond, San Andreas Reservoir Wetlands, Adobe Gulc	23
WD-2600 - Regional Groundwater Storage and Recovery Project- Test Well Drilling	22
WD-2622 - San Francisco Groundwater Supply Pipeline	22
WD-2798 - San Francisco Westside Recycled Water Pipeline	20
WD-2829R - San Andreas Pipeline No. 2 Replacement	10
WD-2809 - San Francisco Groundwater Supply Phase 2	8
WD-2640 - Bioregional Habitat Restoration	-
<b>Total Cleared</b>	<b>14,914</b>

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**Legislative History of the WSIP PLA**

On April 8, 2003, the San Francisco Board of Supervisors adopted Resolution 223-03 urging the SFPUC to develop plans for a Project Labor Agreement covering the capital improvement program to rehabilitate, repair, and upgrade the Hetch Hetchy Water System.

On May 20, 2003 the San Francisco Board of Supervisors adopted Resolution 350-03 urging the SFPUC to include social justice components in the Project Labor Agreement covering the Hetch Hetchy Water System upgrade.

On May 11, 2006 the San Francisco Board of Supervisors amended the San Francisco Administrative Code to establish a PUC Small firm Advisory Committee to provide for the certification of small construction contractors located outside San Francisco and within the SFPUC service territory for work on SFPUC construction projects, including those covered by the WSIP PLA.

On March 28, 2006 the SFPUC adopted Resolution No. 06-0049 to authorize SFPUC staff to commence negotiations with the various craft labor unions for a project labor agreement covering the Water System Improvement Program. Resolution No. 06-0049 concluded that the governmental interests of the SFPUC were furthered by a project labor agreement as follows:

“There are numerous advantages in moving forward on the negotiation of a PLA, which include but are not limited to the following: creates framework for labor harmony; militates against construction delays; assures steady supply of qualified labor; provides employment, career, and local business opportunities; and, other benefits ...”

On March 26, 2007, the SFPUC approved the negotiated agreement, called the Water System Improvement Program Project Labor Agreement (the WSIP PLA). The WSIP PLA requires construction contractors to utilize workers dispatched by signatory unions, and prohibits the unions and contractors from participating in strikes, lockouts, or other disruptions to the work. The WSIP PLA provides a procedure for adjudicating conflicting jurisdictional claims between the unions, provides for uniform hours of work, overtime, shifts and holidays, encourages the recruitment and training of low-income residents of the SFPUC service territory, and requires substance abuse testing for all covered workers. The first implementation of the WSIP PLA was on contract WD-2504, the Stanford Heights Reservoir Seismic Retrofit and Improvement project which the SFPUC awarded to S.J. Amoroso Construction Co. Inc. on Jun. 26, 2007 in the amount of \$17,899,960.

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**Governance**

The parties to the WSIP PLA have established a four person Joint Administrative Committee that reviews the implementation of the agreement and the progress of the covered projects, and resolves problems and grievances that arise in connection with the agreement. The SFPUC administers the agreement under the direction of the Joint Administrative Committee.

The Joint Administrative Committee has established the Jobs Training Opportunities Program to promote the employment and training of San Francisco and SFPUC Service Territory residents on WSIP projects.

**Pre-Job Conferences and Jurisdictional Disputes**

Prior to the commencement of construction, representatives of the participating contractors and subcontractors, the Unions, and the SFPUC, are mandated to attend a pre-job conference held at the offices of the SFPUC or the offices of the local Building and Construction Trades Council. At the pre-job conference each contractor and subcontractor describes the scope of their work and assigns the work on the basis of traditional craft jurisdictional lines. When conflicting claims for work are submitted to a contractor, the WSIP PLA's Jurisdictional Dispute Resolution procedure is invoked to prevent delay or disruption in the work due to jurisdictional disputes.

**Web-Based Labor Compliance Program**

All SFPUC construction projects including those covered by the WSIP PLA utilize the City's web-based labor compliance program (LCPtracker, Inc.) which allows contractors to submit their weekly certified payroll reports electronically over the internet. LCPtracker' electronic certified payrolls are used to produce the employment data included in this report.