



Garcia and Associates GREEN PLAN

Update for Plan Year 7 - June 2018

OVERVIEW

Garcia and Associates (GANDA) recognizes the need to do its part in reducing its carbon footprint throughout the company's operations. As such, GANDA initiated a formal program in 2011 to identify and work toward reducing its direct and indirect environmental impacts. Prior to that, GANDA had implemented a number of measures that have contributed to minimizing our carbon footprint and associated energy consumption and emissions, including telecommuting, establishing offices near key groups of employees to reduce commutes.

GANDA's Green Plan, initially prepared and formalized in 2012 lays out GANDA's Environmental Green Stewardship policy statement, implementation, and methods for tracking and monitoring success against identified action items. The Plan has two elements: Management Actions Items which, once implemented, will reduce environmental impacts; and implementation of an Environmental Management and Tracking System (EMTS) under which energy and water usage, and direct/indirect impacts are tracked against established goals.

As part of its Green Plan, we established an initial two-year assessment period which set July 2010 to June 2011 as its base year (Base Year 1) and ran from July 2011 through June 2013 (Plan Year 1, 2). GANDA management revised the Green Plan in October 2014 and has implemented and completed a three-year assessment period, using the final year of the last assessment period as the base year (Base Year 2) and running from July 2013 through June 2016 (Plan Years 3, 4, 5). With the addition of the San Rafael cultural office in mid-late 2016, we decided to make Plan Year 6, running from July 2016 to June 2017, into a new base year (Base Year 3). This has allowed GANDA to effectively report trends with 4 offices from the start of the evaluation period, avoiding the issue in Plan Year 5 when the Oakland office was expanded. This reporting year, Plan Year 7, will be the first year for comparison against the new Base Year 3.

GREEN PLAN MANAGEMENT ACTION ITEMS

For the management actions aspect of the plan (Action Items), GANDA's initial Green Plan established three planning horizons (short, medium and long term) for implementing identified actions such as conducting energy audits at our offices, installing solar PV systems, etc. that would result in positive steps toward reducing our company's carbon footprint. Action items not completed during their assessment periods are extended to the following period.

Items accomplished during both completed assessment periods include:

- Installation of a solar PV system on the San Anselmo, CA office building
- Assessment and audit by utility representatives of energy and water
- Replacement of inefficient irrigation controller at Auburn office (our largest landscaped facility)
- Installation of energy-efficient lighting throughout the San Anselmo building
- Replacement of toilets and faucets with low-flow models/emitters
- Installation of 'smart' HVAC controls in San Anselmo on the two HVAC units
- Replacement of aging gas/electric air conditioning unit at Oakland office with high efficiency unit
- Installation of energy efficient double-pane windows at the Oakland office
- Replacement of aging vehicles in the company fleet with newer hybrid and more fuel-efficient vehicles
- Implementation of paperless initiatives in administrative and accounting procedures to reduce paper and toner waste
- Installation of ceiling fans in San Anselmo office to improve air circulation and reduce dependence on air conditioning

ENVIRONMENTAL MANAGEMENT AND TRACKING SYSTEM

In addition to identifying and implementing management action items, we set up an Environmental Management and Tracking System (EMTS) in which we calculated baseline usage in our impact areas, set reduction goals for the initial two-year assessment period covering July 2011 through June 2013, and then evaluated our performance for this three-year period against the base year of July 2010 to June 2011. The initial assessment well surpassed initial internal goals for reducing GHG emissions, energy usage, water usage and regulatory and legal compliance. GANDA recommitted to achieving the same reduction goals in these areas for the following three-year tracking period (July 2013 through June 2016). In addition, as part of the Plan update which occurred in fourth quarter 2013, it developed a target for waste reduction and broadened its assessment area to include its office building in Oakland

(acquired in August 2013). GANDA's EMTS now covers four GANDA-owned facilities in northern California: San Anselmo, San Rafael, Oakland and Auburn.

Identification of Management Action Items, with Planning Horizons

As indicated above, GANDA initiated efforts in mid-2011 to identify and reduce its carbon footprint. The approach taken was to identify those efforts that could be reasonably undertaken and cost-effective.

Key elements of this assessment were as follows:

- Fleet Vehicles have the largest impact on total emissions
- Field operations have the highest potential to result in environmental compliance violations
- We have more control over the usage/implementation of measures for office facilities owned by GANDA than rental properties, limiting our scope to only those properties that we own or pay all utilities for.

Secondary determinations of this assessment included:

- A greater impact can be achieved by focusing on larger offices with the greatest number of employees reporting to the offices on a daily or regular basis (impact areas: GHG Scopes 1 and 2, energy consumption, water use, waste generation and methods of commuting to/from work).
- Kilowatt-hours from electricity production and Therms from natural gas use have different emissions factors, favoring electric heating as more environmentally effective than gas heating
- San Rafael cultural office will have cycles of increased water usage, during artifact cleaning projects

For the current third assessment period, the following goals are proposed for the Short, Medium and Long Term:

Short Term (< 6 months, starting July 2016):

- Formalize a policy to purchase Energy Star equipment for all new purchases.
- Obsolete water cooler program at San Anselmo office. [COMPLETED]
- Improve irrigation system at San Anselmo building for better distribution and water efficiency. [COMPLETED]

Medium Term (< 2 years, starting July 2016):

- Conduct an energy retrofit analysis for the Oakland office building to determine additional means for reducing energy usage (e.g., upgrading HVAC, installing PV, upgrading lighting systems). [Note: some short-term action items have already been identified and accomplished for this office]
- Apply window treatment for better insulation at San Anselmo office.
- Conduct bi-monthly evaluations of utility (electric, gas, water, waste removal) and bottled water bills. [ONGOING FROM PRIOR]
- Conduct quarterly analyses of vehicle logs to calculate total GHG Scope 1 emissions. [ONGOING FROM PRIOR]
- Replace aging truck fleet with more fuel-efficient vehicles. [ONGOING FROM PRIOR]

Long Term (< 5 years, starting July 2016):

- Replace aging truck fleet with hybrids, PZEVs, or other low-emission vehicles (will be dependent upon advances in off-road capabilities since field staff are often in remote, harsh conditions).
- Conduct an energy retrofit analysis for other GANDA-owned office buildings to determine most effective means for reducing energy usage (e.g., upgrade HVAC, install PV and/or upgrade lighting systems).
- Reduce paper and ink waste by implementing paperless initiative, across full-service offices. [ONGOING]

Identification of short, medium and long-term action items is ongoing and will be informed by advances and cost reductions in otherwise cost-prohibitive technologies, and negotiations with landlords for facilities leased by GANDA.

ENVIRONMENTAL MANAGEMENT AND TRACKING SYSTEM – GOALS AND TRACKING

Scope 1 Emissions from Company Vehicles

GANDA committed to reducing its company fleet's vehicle emissions by 2 percent during the initial and second assessment periods; GANDA has determined to commit to a 5 percent reduction in vehicle emissions over the current 5 year assessment term. The reduction achieved is being determined by calculating the total emissions from GANDA-owned vehicles during the Base Year 2, and

trending against a comparable reporting period during the assessment period. GANDA has used the EPA website to calculate the anticipated GHG emissions by each vehicle's make, model and year.

Period of Review	Fleet Size	Vehicle Days	Vehicle Miles	Metric tons of CO2	% Change from BY3
Base Year 3	40	5,200	549,746	276	
Plan Year 7	43	4,466	570,136	285	3.30%

The company is regularly updating its fleet of vehicles. Since the beginning of this evaluation term, GANDA has retired 2 vehicles and purchased 5 new vehicles, a net of 3 vehicles added to the company fleet. With the increase in vehicles we observed an increase in overall emissions (3.3% increase), we also observed a reduction in average emissions per vehicle (3.9% decrease), since older and less efficient vehicles were being replaced with newer more efficient ones.

Historically, GANDA management has been quite pleased with the actual reductions in GHG emissions from its company fleet over prior assessment period. This is particularly noteworthy for us, as an organization, given that field work makes up a large part of our business, and the location, duration and associated field conditions are directed by our clients. Business demands over this period had GANDA purchase more vehicles for field use. Because vehicles can rotate between Northern and Southern California offices, and sometimes transfer to other states, this assessment has been done for the entire fleet, rather than just on vehicles currently serving the 4 offices observed in this assessment. Therefore, the real Scope 1 impact for the Northern California division offices is less than the reported figure. We have previously implemented measures to improve efficiency and reduce emissions including telecommuting and the use of passenger vehicles when and where feasible (remote field sites often demand use of vehicles with AWD and potent engines). This assessment does not include impact of personal or rental vehicle use.

Scope 2 Indirect Emissions for Electricity Purchases

Our Green Plan also contains goals for reducing Scope 2 GHG emissions (indirect GHG emissions based on the generation mix of the electricity we purchase) and energy usage. GANDA is committed again to a 5 percent reduction goal for the current evaluation period.

Scope 2 GHG emissions for the four offices are being calculated on an annual basis by converting kilowatt-hours (kWh) and gas provided on monthly utility bills to a carbon dioxide equivalent (CO2e). This is achieved by multiplying total kWh per office by the most recent electricity emissions factor provided by PG&E.

Review Period & Office	Kilowatt-Hours (kWh)	Therms	Metric Tons CO2e	% Change CO2e from BY2
San Anselmo, CA				
Base Year 3	7366	626	48.4	
Plan Year 7	6002	521	40.0	-17.32%
San Rafael, CA				
Base Year 3	4695	504	36.4	
Plan Year 7	5463	481	36.8	0.98%
Oakland, CA				
Base Year 3	14609	454	54.2	
Plan Year 7	15638	227	44.2	-18.33%
Auburn, CA				
Base Year 3	13054	623	59.9	
Plan Year 7	12976	499	53.2	-11.25%
Composite for All Offices				
Base Year 3	39724	2207	198.9	
Plan Year 7	40079	1728	174.2	-12.42%

In order to track energy usage, we monitor and evaluate utility bills on a bi-monthly basis for the four offices, including analyzing electricity produced by the rooftop solar panels on the San Anselmo building. Natural gas usage is fairly nominal in our operations (mostly for heating); nevertheless, we're monitoring our usage in order to see if we can identify means for reducing natural gas usage as well.

Plan Year 7 demonstrates very well the impact natural gas use has on Scope 2 emissions reporting. Here we see that while total kilowatt-hour purchase has increased against the base year, total CO2e calculated is down over 12 percent, well over the 5% reduction goal for this period. San Anselmo observed a substantial reduction in both power purchased and therms during the period, as the rooftop solar grid provided a surplus of power in the summer and spring, in some months even exceeding demand! Oakland also saw a substantial reduction in CO2e as it moved from primarily gas to electric heating. The San Rafael office, despite growing substantially over the year, saw only a minor increase in total emission equivalent.

Water Usage

GANDA is also observing water use as part of its Green Plan. We've adopted a 5% reduction goal for these 4 offices over 5 years.

Period of Review	Gallons Per Day (GPD)	Total CCFs	% Change from BY2
San Anselmo, CA			
Base Year 3	86	42	
Plan Year 7	130	64	51.55%
San Rafael, CA			
Base Year 3	38	18	
Plan Year 7	77	38	104.89%
Oakland, CA			
Base Year 3	207	101	
Plan Year 7	119	58	-42.57%
Auburn, CA			
Base Year 3	253	124	
Plan Year 7	283	138	10.89%
Composite for All Offices			
Base Year 3	584	285	
Plan Year 7	609	297	4.21%

Plan year 7 results show a total increase in water use of 4.21%. As mentioned before in Scope 2 reporting, the San Rafael office experienced a significant increase in staff size for the year due to project demands. Artifacts are also washed on-site. Other offices should see a reduction in Plan Year 8, especially San Anselmo, which replaced an inefficient sprinkler system (used more heavily during the dry months this past year) with a drip irrigation system and groundcover, results to be reported next year.

Waste Generation/Disposal

Reduction of non-recyclable waste is a priority for GANDA. To better manage our non-recyclable waste, GANDA actively tracks garbage bills and the total amount of paper purchased monthly. Internal directives have been issued regarding 'paperless' systems and archiving, double-sided printing, and other methods of reducing paper usage. With these directives executed, San Anselmo Headquarters has reduced paper and ink use, and therefore waste and physical storage demands. More initiatives have been planned to reduce waste in other aspects of administrative processes. However, finding meaningful ways of measuring reductions has been more challenging given that waste pickup is based on the same set number of receptacles, rather than on actual weight or volume, and paper usage is often dependent upon client expectations. Cutting waste down to a sufficient degree may permit a reduction in bins, effectively reducing our maximum trash volume calculation. If waste pickup policies and practices change to reflect actual weight or volume, we will be in a position to revisit our waste reduction goal.

Regulatory and Legal Compliance

Not only is regulatory and legal compliance good green policy, it is also important from a company operations standpoint since it affects clients' perceptions of our professionalism and ability to effectively manage our work efforts. GANDA's company-wide goal is to have no notice of violations, permit non-compliances, reportable spills, or assessed monetary fines or penalties. GANDA was successful in meeting this goal during this plan year.

Summary Progress toward Five-Year Performance Goals under GANDA's EMTS

Plan Element	Reduction Goal	% Change BY3 to PY7
Scope 1 Vehicles	5% reduction in emissions over fleet of company vehicles	+3.3% - may see reduction over time as vehicles are retired and replaced
Scope 2 Purchased Energy	5% reduction annual CO2e in 4 offices	-12.42% - may fluctuate with heating demand, solar power production
Water Usage	3% reduction in annual CCFs/GPD in 4 offices	+4.21% - may see reduction with irrigation improvements and normalized office population
Waste Reduction	1% reduction in annual waste and recycling in 4 offices	No reportable change
Regulatory and Legal Compliance	No notices of violations, permit non-compliances, reportable spills, or assessed monetary fines or penalties	No instances of non-regulatory or legal compliance

GARCIA AND ASSOCIATES - PG&E Sustainable Supply Chain

Vehicle Emissions - Scope 1

7th Plan Year

Plan Year Summary

Vehicle	Make/Model	Days Used Total	Miles Total	lbs CO2 Total
40	NSN Frontier	71	7062	8640.81
41	NSN Frontier	83	2108	2751.22
44	CVY Suburban	176	31071	43497.34
46	FRD Ranger	108.5	6442	8407.68
47	NSN Frontier	64	11789	13592.91
48	NSN Xterra	92	11894	14553.07
50	NSN Xterra	138	16394	18902.55
51	NSN Xterra	158	19403	23740.81
52	NSN Xterra	129	18967	23207.34
53	NSN Xterra	105	12959	14941.94
54	NSN Frontier	61	3111	3587.03
55	NSN Frontier CC	17	1863	2148.07
56	NSN Xterra	10	278	320.54
57	NSN Frontier Ex	42	4163	5093.70
58	NSN Frontier Ex	82	11254	13769.99
59	NSN Frontier Ex	119	18762	22956.51
60	NSN Frontier Ex	160.5	6728	8232.14
61	NSN Xterra	98	13944	16077.66
62	NSN Frontier KC	89	9196	11251.90
63	NSN Frontier CC	81	10827	13247.53
64	NSN Frontier	149	20206	24723.34
65	NSN Xterra	166	18194	20977.98
66	NSN Frontier	97	15274	18688.72
67	TYT Tacoma	159	22737	24762.46
68	NSN Frontier	216	24030	26435.53
69	NSN Xterra	124	19766	22790.52
70	NSN Frontier	109	22186	24406.94
71	NSN Frontier KC	217	23038	26207.66
72	NSN Frontier KC	172	12883	14655.49
73	TYT Prius	54	10873	4290.78
74	TYT Prius	85	14997	5918.22
75	TYT Prius	99	6746	2662.15
76	TYT Prius	91	8011	3161.36
77	FRD F-150	91	16030	18094.11
78	NSN Frontier	139	14208	16100.15
79	NSN Frontier	107	29899	33880.79
80	TYT Tacoma	165	26488	25927.81
81	TYT Tacoma	162	15630	15368.36
82	TYT Tacoma	33	5760	6235.02
83	TYT Tacoma	48	6647	6623.66
84	TYT Tacoma	21	3705	3691.99
85	TYT Tacoma	33	6844	6985.94
86	TYT Tacoma	45	7769	7930.12
Totals	43 Vehicles	4466	570136	629439.83

Base Year Comparison

	PY7	BY3	% Change
Vehicles	43	40	Net 3 add 7.5%
Days Used Total	4466	5220	-14.44%
Miles Total	570136	549746	3.71%
Met Tons CO2	285.51	276.38	3.30%

Notes:

Removed

42, 45

Added

82, 83, 84, 85, 86

GARCIA AND ASSOCIATES - PG&E Sustainable Supply Chain

Energy Consumption - Scope 2 7th Plan Year

Composite Calculations

kWh/Day	PY7	BY3	% Change
San Anselmo	16.63	20.18	-17.61%
San Rafael	15.05	12.76	17.94%
Oakland	42.84	39.86	7.49%
Auburn	35.55	35.77	-0.60%
Total	110.07	108.56	1.39%

PY7 Year Totals	Annual kWh	Annual Therms
San Anselmo	6002.00	521
San Rafael	5462.54	481
Oakland	15638.36	227
Auburn	12976.03	499
Total	40078.93	1728.00

Therms/Day	PY7	BY3	% Change
San Anselmo	1.44	1.72	-15.85%
San Rafael	1.33	1.37	-3.25%
Oakland	0.62	1.24	-49.79%
Auburn	1.37	1.71	-19.90%
Total	4.76	6.03	-21.11%

BY3 Year Totals	Annual kWh	Annual Therms
San Anselmo	7366.00	626
San Rafael	4695.39	504
Oakland	14608.52	454
Auburn	13054.24	623
Total	39724.15	2207.00

Emissions Calculations

lbs CO2/kWh	0.4536
lbs CO2/Therm	11.7

Scope 2 Emissions (Electricity ONLY)

lbs CO2/Day	PY7	BY3	% Change
San Anselmo	7.54	9.15	-17.61%
San Rafael	6.83	5.79	17.94%
Oakland	19.43	18.08	7.49%
Auburn	16.13	16.22	-0.60%
Total	49.93	49.24	1.39%

Scope 2 Emissions (Electricity ONLY)

lbs CO2 Annual	PY7	BY3	% Change
San Anselmo	2722.51	3341.22	-18.52%
San Rafael	2477.81	2129.83	16.34%
Oakland	7093.56	6626.43	7.05%
Auburn	5885.93	5921.40	-0.60%
Total	18179.80	18018.88	0.89%

Total Emissions (Electricity + Gas)

lbs CO2/Day	PY7	BY3	% Change
San Anselmo	24.43	29.22	-16.40%
San Rafael	22.33	21.81	2.37%
Oakland	26.71	32.57	-18.00%
Auburn	32.12	36.19	-11.25%
Total	105.59	119.80	-11.86%

Total Emissions (Electricity + Gas)

lbs CO2 Annual	PY7	BY3	% Change
San Anselmo	8818.21	10665.42	-17.32%
San Rafael	8105.51	8026.63	0.98%
Oakland	9749.46	11938.23	-18.33%
Auburn	11724.23	13210.50	-11.25%
Total	38397.40	43840.78	-12.42%

GARCIA AND ASSOCIATES - PG&E Sustainable Supply Chain

Energy Consumption - Scope 2 7th Plan Year

"Vacant Warehouse" on Oakland PG&E bill

San Anselmo Office

Period	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Period Days	31	30	30	28	30	30	31	30	29	32	30	30

kWh Net	440	843	852	840	741	822	826	650	333	-81	-144	-120
kWh/Day	14.19	28.10	28.40	30.00	24.70	27.40	26.65	21.67	11.48	-2.53	-4.80	-4.00

Therms	0	0	0	11	86	143	90	102	57	32	0	0
Therms/Day	0.00	0.00	0.00	0.39	2.87	4.77	2.90	3.40	1.97	1.00	0.00	0.00

Total Days	361
Total kWh	6002
Total Therms	521

Avg by Quarter	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Year
kWh/Day	23.46	27.31	20.10	-3.75	16.63
Therms/Day	0.00	2.73	2.77	0.35	1.44

GARCIA AND ASSOCIATES - PG&E Sustainable Supply Chain

Energy Consumption - Scope 2 7th Plan Year

San Rafael Office

Period	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Period Days	29	33	29	29	32	30	29	32	29	30	32	29

kWh Total	494.2298	444.4216	625.0943	367.7404	444.4835	462.2978	516.2273	491.4509	408.5088	434.1414	436.991	336.9541
kWh/Day	17.04	13.47	21.55	12.68	13.89	15.41	17.80	15.36	14.09	14.47	13.66	11.62

Therms	3	4	10	13	50	78	82	96	67	53	21	4
Therms/Day	0.10	0.12	0.34	0.45	1.56	2.60	2.83	3.00	2.31	1.77	0.66	0.14

Total Days	363
Total kWh	5462.5409
Total Therms	481

Avg by Quarter	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Year
kWh/Day	17.18	14.01	15.74	13.28	15.05
Therms/Day	0.19	1.55	2.72	0.86	1.33

GARCIA AND ASSOCIATES - PG&E Sustainable Supply Chain

Energy Consumption - Scope 2 7th Plan Year

Oakland Office

Period	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Period Days	30	31	30	29	32	32	30	31	29	31	31	29

kWh 2nd Floor	466.8308	565.1346	432.1723	472.0034	618.6882	587.5282	643.1711	603.6827	674.6833	599.8632	621.4495	559.9681
kWh 3rd Floor	454.1294	511.0844	571.0456	545.9345	934.7487	1162.1422	1,162.89	1105.9209	780.1769	578.9024	555.7059	430.5012
kWh Total	920.9602	1076.219	1003.2179	1017.9379	1553.4369	1749.6704	1806.0621	1709.6036	1454.8602	1178.7656	1177.1554	990.4693
kWh/Day	30.70	34.72	33.44	35.10	48.54	54.68	60.20	55.15	50.17	38.02	37.97	34.15

Therms	11	11	10	9	19	44	52	12	26	12	10	11
Therms/Day	0.37	0.35	0.33	0.31	0.59	1.38	1.73	0.39	0.90	0.39	0.32	0.38

Total Days	365
Total kWh	15638.3585
Total Therms	227

Avg by Quarter	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Year
kWh/Day	32.97	46.46	55.23	36.77	42.84
Therms/Day	0.35	0.77	1.00	0.36	0.62

GARCIA AND ASSOCIATES - PG&E Sustainable Supply Chain

Energy Consumption - Scope 2 7th Plan Year

Auburn Office

Period	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Period Days	32	30	32	29	28	31	32	30	30	32	29	30

kWh Front	1286.4105	1533.6637	906.0351	351.3777	507.9618	536.5873	549.4835	488.3588	840.3287	560.6539	373.182	382.9892
kWh Back	718.7537	611.4958	573.7368	295.8039	301.6468	372.3451	336.4798	382.0102	296.5999	281.4456	219.6671	269.0172
kWh Total	2005.1642	2145.1595	1479.7719	647.1816	809.6086	908.9324	885.9633	870.369	1136.9286	842.0995	592.8491	652.0064
kWh/Day	62.66	71.51	46.24	22.32	28.91	29.32	27.69	29.01	37.90	26.32	20.44	21.73

Therms	0	1	0	0	25	93	104	88	110	53	20	5
Therms/Day	0.00	0.03	0.00	0.00	0.89	3.00	3.25	2.93	3.67	1.66	0.69	0.17

Total Days	365
Total kWh	12976.0341
Total Therms	499

Avg by Quarter	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Year
kWh/Day	59.89	26.88	31.45	22.93	35.55
Therms/Day	0.01	1.34	3.28	0.86	1.37

GARCIA AND ASSOCIATES - PG&E Sustainable Supply Chain

Water Consumption

7th Plan Year

Composite Calculations

Annual CCF	PY7	BY3	% Change
San Anselmo	64	42	52.38%
San Rafael	38	18	108.33%
Oakland	58	101	-42.57%
Auburn	138	124	10.89%
Total	297	285	4.21%

GPD	PY7	BY3	% Change
San Anselmo	130.44	86.07	51.55%
San Rafael	77.27	37.71	104.89%
Oakland	118.86	206.98	-42.57%
Auburn	282.94	253.08	11.80%
Total	609.52	583.84	4.40%

GARCIA AND ASSOCIATES - PG&E Sustainable Supply Chain

Water Consumption

7th Plan Year

MMWD

San Anselmo Office

Period	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Period Days	31	31	30.5	30.5	29.5	29.5	30.5	30.5	30.5	30.5	31.5	31.5
CCF/Month	8	8	6.5	6.5	3.5	3.5	3.5	3.5	4.5	4.5	6	6
GPD	193.03	193.03	159.41	159.41	88.75	88.75	85.84	85.84	110.36	110.36	142.48	142.48

Total Days	367
Total CCF	64

Avg by Quarter	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Year Total
CCF	22.50	13.50	11.50	16.50	64.00
GPD	181.95	112.83	94.01	132.00	130.44

GARCIA AND ASSOCIATES - PG&E Sustainable Supply Chain

Water Consumption

7th Plan Year

MMWD

San Rafael Office

Period	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Period Days	31	30.5	30.5	29.5	29.5	30.5	30.5	30.5	30.5	29.5	29.5	31
CCF/Month	3.5	3	3	2.5	2.5	2	2	1	1	4.5	4.5	8
GPD	84.45	73.57	73.57	63.39	63.39	49.05	49.05	24.52	24.52	114.10	114.10	193.03

Total Days	363
Total CCF	37.5

Avg by Quarter	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Year Total
CCF	9.50	7.00	4.00	17.00	37.50
GPD	77.24	58.50	32.70	141.29	77.27

GARCIA AND ASSOCIATES - PG&E Sustainable Supply Chain

Water Consumption

7th Plan Year

EBMUD

Oakland Office

Period	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Period Days	30.5	30.5	28.5	28.5	32	32	31	31	31	31	29.5	29.5
CCF/Month	5	5	5.5	5.5	5.5	5.5	6	6	4.5	4.5	2.5	2.5
GPD	122.62	122.62	144.35	144.35	128.56	128.56	144.77	144.77	108.58	108.58	63.39	63.39

Total Days	365
Total CCF	58

Avg by Quarter	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Year Total
CCF	15.50	16.50	16.50	9.50	58.00
GPD	129.54	133.43	132.71	78.96	118.86

GARCIA AND ASSOCIATES - PG&E Sustainable Supply Chain

Water Consumption

7th Plan Year

PCWA

Auburn Office

Period	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Period Days	28.5	31	31	31	31	29.5	29.5	30.5	30.5	31.5	31.5	28
CCF/Month	16	18	18	11.5	11.5	9	9	9	9	9.5	9.5	7.5
GPD	419.93	434.32	434.32	277.48	277.48	228.20	228.20	220.72	220.72	225.59	225.59	200.36

Total Days	363.5
Total CCF	137.5

Avg by Quarter	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Year Total
CCF	52.00	32.00	27.00	26.50	137.50
GPD	429.79	261.60	223.16	217.82	282.94